HOLTEC TECHNOLOGY CENTER BUILDING EXPANSION & DRIVEWAY WIDENING

SITE PLAN

BLOCKS 455 AND 457, LOTS 1 AND 16
CAMDEN COUNTY

PREPARED FOR:
DEVELOPER

HOLTEC TECHNOLOGY CENTER, LLC

1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

UTILITY PROVIDERS

AMERICAN WATER
PO BOX 52747
PHOENIX, AZ 85072

PUBLIC SERVICE GAS CO.
535 W. NICHOLSON ROAD
AUDOBON, NJ 08540

COMCAST CABLEVISION
1250 HADDONFIELD-BERLIN ROAD
CHERRY HILL, NJ 08034-0404

PUBLIC SERVICE ELECTRIC CO.
300 NEW ALBANY ROAD
MOORESTOWN, NJ 08057

NEW JERSEY AMERICAN WATER
PO BOX 578
ALTON, IL 62002
(SERVICING EAST CAMDEN & CRAMER HILL)

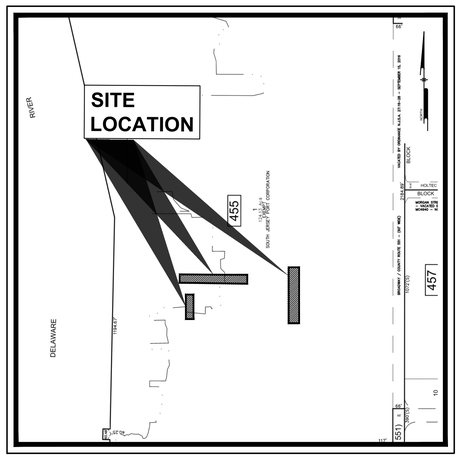
CITY OF CAMDEN DEPT. OF PUBLIC
ELECTRICAL BUREAU
1056 WRIGHT AVENUE, 2ND FLOOR
CAMDEN, NJ 08103

NJ TRANSIT
350 NEWTON AVENUE
CAMDEN, NJ 08101

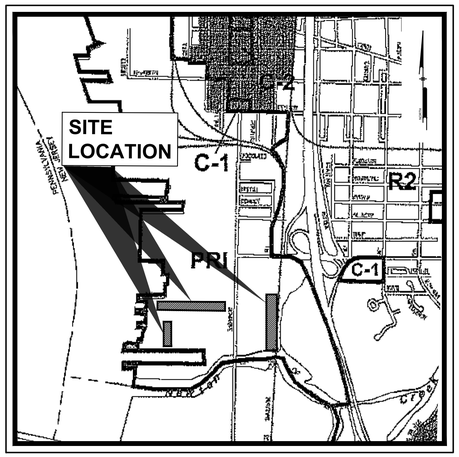
CAMDEN COUNTY M.U.A
1645 FERRY AVENUE
CAMDEN, NJ 08104

VERIZON
540 BROAD STREET
NEWARK, NJ 07101

WILLIAMS - TRANSCO PIPELINE
99 FARBER ROAD
PRINCETOWN, NJ 08540
ATTN: RICHARD RICKETTS (609) 936-2413



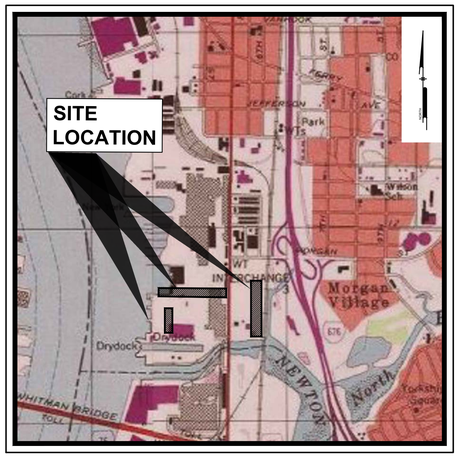
TAX MAP
Scale: 1" = 1000'



ZONING MAP
Scale: 1" = 1000'



LOCATION MAP
Scale: 1" = 2000'



USGS MAP
Scale: 1" = 2000'

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NEW JERSEY
ONE CALL
CALL BEFORE YOU DIG
1-800-272-1000

CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH THE REQUIREMENTS OF THE NEW JERSEY ONE-CALL DAMAGE PREVENTION SYSTEM AS STATED IN THE "UNDERGROUND FACILITY PROTECTION ACT". TICKET NUMBER(S):

PREPARED BY:
PENNONI ASSOCIATES INC.

2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8600
F 856.668.8610

NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

THIS MAP IS HEREBY APPROVED BY THE PLANNING BOARD OF THE CITY OF CAMDEN.

BOARD CHAIRMAN DATE
BOARD SECRETARY DATE
BOARD ENGINEER DATE
ZONING OFFICER/ADMINISTRATIVE OFFICER DATE

NOT FOR CONSTRUCTION

Pennoni
NJ COA GA28033300
PENNONI ASSOCIATES INC.
2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8600 **F** 856.668.8610

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER BUILDING EXPANSION & DRIVEWAY WIDENING
BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

COVER SHEET

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	DATE	REVISIONS	BY

ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

PROJECT	USATX24001
DATE	APRIL 22, 2026
DRAWING SCALE	AS NOTED
DRAWN BY	EAB
APPROVED BY	JJR

CS0001

SHEET 1 OF 22

U:\Accounts\USATX\USATX24001 - Holtec Warehouse\DESIGN_SHEETS\CS0001.dwg PLOTTED: 4/21/2026 5:59 AM, BY: Eduardo Beltran PLOTSTYLE: Pennoni NCS.stb

DEMOLITION NOTES:

D-1. DEMOLITION WILL BEGIN UPON RECEIPT OF ALL NECESSARY APPROVALS AND PERMITS FROM ALL APPLICABLE GOVERNMENTAL AGENCIES AND AFTER ALL UTILITIES HAVE BEEN DEACTIVATED / DISCONNECTED. CONTRACTOR SHALL CONTACT UNDERGROUND UTILITIES AS PER NEW JERSEY ONE CALL LAW NOT LESS THAN FIVE (5) DAYS NOR MORE THAN TEN (10) WORKING DAYS BEFORE COMMENCING WITH DEMOLITION.

D-2. ALL DEMOLITION WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT NFPA 241 AND OSHA STANDARDS, LATEST EDITION.

D-3. CONTRACTOR SHALL NOTIFY APPROPRIATE UTILITY PURVEYOR , OWNER AND THE ENGINEER 72 HRS. PRIOR TO INITIATING UTILITY REMOVAL AND/OR ABANDONMENT.

D-4. PRIOR TO START OF DEMOLITION, THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH EACH UTILITY AND THE OWNER TO THE WORK RELATIVE TO THEIR FACILITIES WITHIN THE LIMITS OF DEMOLITION AREA. THE CONTRACTOR SHALL ENSURE THAT ALL UTILITIES WHETHER SHOWN OR NOT ARE INACTIVE OR DE-ENERGIZED PRIOR TO DEMOLITION.

D-5. REMOVE ALL SANITARY SEWER, STORM SEWER, TELEPHONE AND CABLE SERVICES AND CONDUITS WITHIN THE LIMIT OF DEMOLITION UNLESS OTHERWISE NOTED. ALL WATER SERVICE CONNECTIONS SHALL BE CUT AND CAPPED. STORM INLETS AND ASSOCIATED PIPING SHALL REMAIN IN-PLACE.

D-6. ALL SANITARY SEWER CONVEYANCE FACILITIES, WHICH ARE TO BE ABANDONED, SHALL BE EMPTIED OF WASTES AND EITHER REMOVED OR ABANDONED IN-PLACE IN A MANNER WHICH IS ACCEPTABLE TO THE OWNER AND ENGINEER.

D-7. BACKFILL ALL VOIDS CREATED BY REMOVALS, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: FOUNDATIONS, MANHOLES, INLETS, SITE PIPING, VALVES, CONDUITS, CLEANOUTS, AND TREE ROOT REMOVALS. BACKFILL WITH STRUCTURAL FILL IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.

D-8. CRUSHING OF MATERIALS WILL BE PERMITTED ONSITE WITHIN THE DESIGNATED WORK AREA ONLY, AND THE PROCESS SHALL BE FIRST REVIEWED AND APPROVED BY THE ENGINEER.

D-9. RECYCLED MATERIALS MAY BE USED AS BACKFILL IF THE MATERIAL MEETS ALL THE REQUIREMENTS ESTABLISHED IN THE PROJECT SPECIFICATIONS AND ON THE CONTRACT DRAWINGS.

D-10. THE CONTRACTOR SHALL MAINTAIN AND PROTECT ALL EXISTING PAVING, CURBING, CONCRETE, BRICK AND SITE AMENITIES NOT CALLED OUT TO BE REMOVED. ANY EXISTING CURB, SIDEWALK, PAVEMENT, LANDSCAPING, LIGHTING OR OTHER SITE AMENITIES THAT ARE TO BE MAINTAINED AND PROTECTED AND ARE DAMAGED DURING DEMOLITION OR OTHER CONSTRUCTION RELATED ACTIVITIES, SHALL BE REPLACED PROMPTLY BY THE CONTRACTOR AT NO COST TO THE OWNER.

D-11. PROTECTION OF FIRE HYDRANTS SHALL BE COORDINATED WITH THE CITY.

D-12. WATER WILL BE AVAILABLE ONSITE VIA EXISTING HYDRANTS. CONTRACTOR TO COORDINATE WITH THE CITY.

D-13. ELECTRICAL UTILITIES SHALL BE DISCONNECTED PRIOR TO BEGINNING ANY DEMOLITION WORK. DEMOLITION SHALL INCLUDE THE REMOVAL OF BURIED AND EXPOSED CONDUIT IN THE AREA DESIGNATED FOR DEMOLITION, SEALING ENDS OF ALL BURIED CONDUIT ABANDONED IN PLACE AND REMOVING ALL POWER AND CONTROL WIRING BETWEEN THE DEMOLISHED FACILITY AND THE TERMINAL JUNCTION BOX, CIRCUIT BREAKER, OR METER CONTROL CENTER SUPPLYING POWER TO THE FACILITY.

D-14. ALL MATERIAL BROUGHT ON SITE SHALL BE CLEAN FILL, SAMPLED, AND ANALYZED WITH STANDARD NJDEP QUALITY ASSURANCE STANDARDS AND PRACTICES AT A MINIMUM, AS SPECIFIED IN N.J.A.C. 7:26E, TO FULLY CHARACTERIZE THE CONTAMINANTS IN THE LATEST SOIL CLEANUP CRITERIA SCC). THE CONTRACTOR SHALL SUBMIT TO THE OWNER WRITTEN DOCUMENTATION FROM A LABORATORY CERTIFIED IN NEW JERSEY ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM (ELCP) AND IN ACCORDANCE WITH N.J.A.C. 7:18 PRIOR TO PLACEMENT OF THE MATERIAL ON SITE. THE MATERIAL MUST NOT CONTAIN CONTAMINANTS ABOVE THE MOST RESTRICTIVE DIRECT CONTACT OR IMPACT TO GROUNDWATER (IGW) SCC.

D-15. ALL DEMOLITION MATERIAL AND DEBRIS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. NO ON-SITE BURIAL IS PERMITTED. A SOIL REMOVAL PERMIT IS THE RESPONSIBILITY OF THE CONTRACTOR.

D-16. ALL ACTIVE CONSTRUCTION SITES AND LOCATIONS SHALL BE PROVIDED WITH NON-COMBUSTIBLE REFUSE CONTAINER(S) IN SUCH NUMBERS AS SHALL BE NECESSARY TO CONTAIN ALL COMBUSTIBLE REFUSE GENERATED BY THE CONSTRUCTION ACTIVITIES.

D-17. ALL COMBUSTIBLE REFUSE, RUBBISH AND DEBRIS SHALL BE COLLECTED AND DEPOSITED IN THE CONTAINER(S) ON A DAILY BASIS. REFUSE CONTAINER(S) SHALL BE LOCATED A MINIMUM OF TWENTY (20) FEET AWAY FROM ANY BUILDING, STRUCTURE, LOT LINE OR COMBUSTIBLE MATERIAL STORAGE LOCATION.

D-18. WHILE CONSTRUCTION ACTIVITIES ARE IN PROGRESS, AT LEAST FOUR(4) PORTABLE FIRE EXTINGUISHERS HAVING A RATING OF AT LEAST 10-A, 60-BC SHALL BE PROVIDED, AND SHALL BE MAINTAINED IN A LOCATION APPROVED BY THE FIRE OFFICIAL. PERSONNEL NORMALLY ON THE CONSTRUCTION SITE SHALL BE INSTRUCTED IN THE USE OF THE FIRE EXTINGUISHERS PROVIDED.

D-19. THE CONTRACTOR SHALL CONDUCT DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS TO ENSURE MINIMAL INTERFERENCE WITH ROADS, WALKS AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. THE AREAS OF DEMOLITION SHALL BE PROTECTED TO ENSURE THE SAFE PASSAGE OF PEDESTRIANS AS SHOWN ON THE CONTRACT DRAWINGS.

D-20. NO DISTURBANCES NOR PLACEMENT OF MATERIALS SHALL BE PERMITTED BEYOND THE PROJECT LIMIT LINES WITHOUT WRITTEN CONSENT OF THE PROPERTY OWNER(S) INVOLVED. DAMAGE CAUSED TO ADJACENT FACILITIES BY DEMOLITIONS OPERATIONS AND/OR STORAGE OF MATERIALS OR EQUIPMENT SHALL BE PROMPTLY REPAIRED/REPLACED AT NO COST TO THE OWNER.

D-21. DEMOLITION EQUIPMENT AND VEHICLES SHALL STAGE WITHIN PAVED DRIVEWAYS, PARKING LOTS AND WITHIN THE AREA OF EXISTING BUILDING FOOTPRINT TO MINIMIZE SOIL DISTURBANCES DURING DEMOLITION PROCESS.

D-22. TO THE MAXIMUM EXTENT FEASIBLE, REMOVAL AND/OR ABANDONMENT OF ANY EXISTING SEWER SERVICE/MAIN AND WATER SERVICE/MAIN SHALL BE PERFORMED AT/NEAR THE CONNECTING MAINS TO MINIMIZE ACTIVE SECTIONS IN THE PUBLIC RIGHT-OF-WAY. ALL DISCONNECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF CAMDEN REQUIREMENTS.

D-23. WATER MAINS AND SEWER/COMBINED SEWER MAINS NOTED TO BE ABANDONED IN-PLACE SHALL BE CUT AND CAPPED AND FILLED WITH NJDOT CONTROLLED LOW STRENGTH MATERIAL ("FLOWABLE FILL").

D-24. THE CITY OWNS AND OPERATES THE WATER AND SEWER SYSTEM, AND PSE&G OWNS AND OPERATES THE ELECTRIC AND GAS. CONTRACTOR SHALL COORDINATE WITH EACH UTILITY. PURVEYOR REGARDING PROPOSED WORK IMPACTING THEIR UTILITIES.

FLOOD ZONE INFORMATION.:

F-1. BY GRAPHIC PLOTTING ONLY SUBJECT PARCEL *AREA* IS LOCATED IN ZONE *AE* (AREAS DETERMINED TO BE OUTSIDE THE 1% ANNUAL FLOODPLAIN) OF THE FLOOD INSURANCE RATE MAP NO. 34007C0036F WHICH BEARS AN EFFECTIVE DATE OF AUGUST 17, 2016. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE AND AN ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION OR APPLY FOR A VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

GENERAL NOTES:

G-1. THE LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES SHOWN ON THE CONTRACT DRAWINGS ARE APPROXIMATE AND ARE BASED UPON BEST AVAILABLE INFORMATION PROVIDED TO ENGINEER. THE FOLLOWING SHALL BE PERFORMED:

A) VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES WITHIN THE WORK AREA PRIOR TO CONSTRUCTION.

B) EXERCISE EXTREME CAUTION WHEN WORKING ADJACENT TO EXISTING POWER, COMMUNICATIONS, WATER OR GAS LINES TO PREVENT DAMAGE TO THESE LINES.

C) IMMEDIATELY REPAIR ANY DAMAGE TO EXISTING UTILITIES IN A MANNER APPROVED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.

G-2. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN SITE EXAMINATION AND DETERMINING THE ACTUAL NATURE AND EXTENT OF EXISTING CONDITIONS PRIOR TO UNDERTAKING WORK.

G-3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND TO TAKE WHATEVER STEPS NECESSARY TO PROVIDE FOR THEIR PROTECTION. THE ENGINEER HAS DILIGENTLY ATTEMPTED TO LOCATE AND INDICATE ALL EXISTING FACILITIES ON THESE PLANS; HOWEVER, THIS INFORMATION IS SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS OF UTILITIES SHOWN OR NOT SHOWN. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES FOR EXACT LOCATION OF THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND REPLACE ANY AND ALL DAMAGE MADE TO UTILITIES BY THE CONTRACTOR.

G-4. BEFORE EXCAVATING THE PROJECT AREA THE CONTRACTOR IS TO VERIFY THE LOCATION OF ANY UNDERGROUND UTILITY (GAS MAINS, WATER MAINS, SEWER LINES, TELEPHONE LINES, ETC.). SHOULD ANY UNDERGROUND UTILITY INTERFERE WITH PROJECT CONSTRUCTION THE ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND THE OWNER THREE (3) DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION FOR ACCURATE FIELD LOCATIONS. FOR UTILITY MARKOUT CALL 1-800-272-1000. CERTAIN UTILITIES WITHIN THE PROJECT AREA ARE PRIVATE AND A UTILITY MARKOUT (ONE-CALL) MAY NOT DETECT AND MARK THE LOCATION OF THESE UTILITIES. CONTRACTOR SHALL OBTAIN AN INDEPENDENT MARKOUT COMPANY.

GENERAL NOTES (CONT.):

G-5. VERIFY ALL INDICATED CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE PERFORMING ANY WORK. NOTIFY THE ENGINEER OF ANY CONDITIONS OR DIMENSIONS THAT WOULD PREVENT OR HAMPER THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.

G-6. THE CONTRACTOR AND OR ENGINEER SHALL RESOLVE APPARENT CONTRADICTIONS IN CONTRACT DOCUMENTS WITH THE OWNER BEFORE AFFECTED WORK PROCEEDS.

G-7. DEVIATION FROM THESE PLANS AND NOTES WITHOUT THE PRIOR CONSENT OF THE OWNER, OWNER'S REPRESENTATIVE AND/OR THE DESIGN ENGINEER MAY BE CAUSE FOR THE WORK TO BE UNACCEPTABLE.

G-8. EXISTING SANITARY SEWERS THAT ARE TO REMAIN IN SERVICE SHALL REMAIN IN ACTIVE OPERATION AT ALL TIMES. EXISTING WATER MAINS SHALL REMAIN IN ACTIVE OPERATION EXCEPT AS NECESSARY FOR CONNECTIONS. PROVIDE A MINIMUM OF TWO WEEKS NOTICE TO THE ENGINEER AND OWNER PRIOR TO SERVICE DISRUPTIONS.

G-9. UTILIZE A MOBILE SWEEPER AND WATER TRUCK DAILY FOR DUST CONTROL ALONG HAUL ROUTES AND IN AREAS MADE AVAILABLE FOR CONSTRUCTION.

G-10. PREVENT WATER PONDING RESULTING FROM CONSTRUCTION OPERATIONS. PROMPTLY REMOVE ANY PONDED WATER TO THE SATISFACTION OF THE ENGINEER.

G-11. ALL TOPSOIL SHALL BE STRIPPED, STOCKPILED AND REUSED ON SITE AND MAY NOT BE TRANSPORTED OFF-SITE WITHOUT WRITTEN REQUEST AND RESPONSE FROM THE OWNER AUTHORIZING SAME..

G-12. CONTRACTOR SHALL WORK TO MINIMIZE EXCESS SOIL GENERATED. IF IT IS NECESSARY TO REMOVE SOIL FROM THE SITE, IT SHOULD BE DISPOSED OF AT A PERMITTED DISPOSAL FACILITY. PROVIDE THE NAME OF THE DISPOSAL FACILITY AND SOIL SAMPLE RESULTS 7 DAYS PRIOR TO HAULING SOIL. COPIES OF ALL BILLS-OF-LADING SHALL BE PROVIDED TO THE ENGINEER WITHIN 24 HOURS OF SOIL LEAVING THE SITE. CONTRACTOR SHALL ASSUME OWNERSHIP/RESPONSIBILITY OF EARTH OR CONCRETE SPOILS AND/OR DEBRIS GENERATED DURING CONSTRUCTION.

G-13. ALL AREAS OUTSIDE THE LIMITS OF CONSTRUCTION WHICH ARE DAMAGED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER AND OWNER.

G-14. VERIFY ALL INDICATED CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE PERFORMING ANY WORK. NOTIFY THE ENGINEER OF ANY CONDITIONS OR DIMENSIONS THAT WOULD PREVENT OR HAMPER THE PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.

G-15. UPON COMPLETION OF THE WORK, REMOVE ALL DEBRIS, EQUIPMENT AND UNUSED MATERIALS FROM OWNER PROPERTY AND RESTORE THE AREAS TO THEIR ORIGINAL CONDITION, AS APPROVED BY THE ENGINEER.

G-16. A GEOTECHNICAL ENGINEER, RETAINED BY THE CONTRACTOR, IS REQUIRED TO INSPECT, TEST, AND CERTIFY TO THE COMPACTION OF ALL FILLS.

G-17. THE CONTRACTOR SHALL PROVIDE ANY AND ALL EXCAVATION AND MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL TESTS. ALL ARRANGEMENTS AND SCHEDULING FOR THE TESTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

G-18. SOILS TESTING AND ON-SITE INSPECTION SHALL BE PERFORMED BY AN INDEPENDENT GEOTECHNICAL ENGINEER, RETAINED BY THE CONTRACTOR. THE GEOTECHNICAL ENGINEER SHALL PROVIDE COPIES OF TEST REPORTS TO THE CONTRACTOR, AND THE CONSTRUCTION MANAGER, AND SHALL PROMPTLY NOTIFY THE CONSTRUCTION MANAGER AND THE CONTRACTOR SHOULD WORK PERFORMED BY THE CONTRACTOR FAIL TO MEET THESE SPECIFICATIONS.

G-19. THE BOTTOM OF ALL EXCAVATIONS AND COMPACTED EARTHWORK SHALL BE INSPECTED AND APPROVED BY A REGISTERED GEOTECHNICAL ENGINEER RETAINED BY THE CONTRACTOR PRIOR TO PLACING CONCRETE STRUCTURES AND/OR BACKFILLING. APPROVAL BY THE GEOTECHNICAL ENGINEER, IN WRITING, SHALL INDICATE THAT THE SOIL IS ADEQUATE TO SAFELY SUPPORT A FOUNDATION PRESSURE OF 2,000 PSF. EXCAVATION BELOW THE ANTICIPATED BOTTOMS OF CONCRETE STRUCTURES ALONG WITH PLACEMENT OF COMPACTED BACKFILL MAY BE REQUIRED.

G-20. CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AND FENCING AROUND THE PERIMETER OF THE WORK AREA AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.

G-21. ALL TRAFFIC CONTROL DEVICES TO BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION. SIGN POSTS SHALL BE GALVANIZED STEEL AND ALL SIGN MATERIALS SHALL BE MADE OF RETROFLECTIVE SHEETING ON ALUMINUM BLANKS IN ACCORDANCE WITH NJDOT STANDARD SPECIFICATIONS.

G-22. ALL DIMENSIONING IS TO CURB OR BUILDING FACE, UNLESS OTHERWISE NOTED.

G-23. UNLESS OTHERWISE INDICATED, ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, 2007, OR LATEST EDITION, AS AMENDED AND SUPPLEMENTED TO DATE.

G-24. ALL CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,500 PSI, UNLESS OTHERWISE NOTED.

G-25. THE LOCATION OF SIDEWALK AND CURBS TO BE REPLACED ALONG THE PROPERTY'S FRONTAGE OF BROADWAY SHALL BE DETERMINED BY THE CITY ENGINEER.

G-26. THE APPLICANT WILL COMPLY WITH THE CITY'S "ORDINANCE ESTABLISHING STANDARDS FOR THE SUBMISSION OF MAPS AND OTHER DOCUMENTS IN A DIGITAL FORMAT." THE APPLICANT SHOULD BE AWARE THAT FINAL SIGNATURES OF APPROVAL AND BUILDING PERMITS WILL NOT BE ISSUED UNTIL THE REQUIRED INFORMATION IS RECEIVED.

G-27. DURING CONSTRUCTION, NOISE LEVELS SHALL ADHERE TO THE FOLLOWING LIMITS AS MEASURED AT ANY RESIDENTIAL PROPERTY:

- 50 DECIBELS (10PM TO 7AM)
- 65 DECIBELS (7AM TO 10PM)

GRADING NOTES:

1. A GEOTECHNICAL ENGINEER, PROVIDED BY THE CONTRACTOR, IS REQUIRED TO INSPECT, TEST AND CERTIFY TO THE COMPACTION OF ALL LOAD BEARING FILLS.
2. A MINIMUM 2.0% (IN ONE DIRECTION) AND A MAXIMUM SLOPE OF 3:1 SHALL BE PROVIDED IN ALL LAWN AREAS, UNLESS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS. A MINIMUM SLOPE OF 1.0% IS REQUIRED IN ALL PAVED SURFACES, INCLUDING DRIVEWAYS.
3. THE CONTRACTOR SHALL INSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES DURING CONSTRUCTION WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED OR REGRADING AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS.
4. THE CONTRACTOR SHALL PROVIDE ANY AND ALL EXCAVATION AND MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL TESTS. ALL ARRANGEMENTS AND SCHEDULING FOR THE TESTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
5. THE CONTRACTOR IS TO PROVIDE AN EARTHWORK ANALYSIS TO DETERMINED THE TOTAL (EXPORT/IMPORT) OF SOIL REQUIRED.

HIGH-VOLTAGE PROXIMITY ACT

THE CONTRACTOR IS NOTIFIED THAT ALL PROVISIONS OF THE HIGH-VOLTAGE PROXIMITY ACT, P.L. 1948, c. 249 AS AMENDED THROUGH MAY 20, 1987 SHALL BE STRICTLY ADHERED TO. THE CONTRACTOR SHALL ALSO ADHERE TO ALL PROVISIONS OF PART 1926.550, SUBPART N OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF DECEMBER, 1970. PARTICULAR ATTENTION IS DIRECTED TO THE PROVISIONS OF THE ABOVE ACT REQUIRED WARNING SIGNS, NOTIFICATION TO POWER COMPANY AND RESPONSIBILITY FOR SAFEGUARDS AND ALSO PROHIBITED ACTIVITY.

A COPY OF THE HIGH-VOLTAGE PROXIMITY ACT IS AVAILABLE IN THE OFFICE OF THE COUNTY ENGINEER OR MAY BE OBTAINED FROM THE NEW JERSEY DEPARTMENT OF LABOR, DIVISION OF WORKPLACE STANDARDS, OFFICE OF SAFETY COMPLIANCE, TRENTON, NJ 08625

SAFETY:

1. THE CONTRACTOR, OR HIS REPRESENTATIVE, IS TO DESIGNATE AN INDIVIDUAL RESPONSIBLE FOR CONSTRUCTION SITE SAFETY DURING THE COURSE OF SITE IMPROVEMENTS PURSUANT TO N.J.A.C. 5:23-2.21 (E) OF THE NEW JERSEY UNIFORM CONSTRUCTION CODE AND CFR 1926.32 (F) (OSHA COMPETENT PERSON).

SITE IMPROVEMENT NOTES:

1. PRIOR TO STRIPING OF ADA PARKING SPACES, THE LOCATIONS SHALL BE REVIEWED WITH THE ENGINEER.
2. SIDEWALK CONSTRUCTION SHOWN ON THESE PLANS SHALL MEET ALL REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT OF JULY 2010, TITLE II, TITLE III AND ANY STATE, COUNTY, LOCAL OR OTHER APPLICABLE LAWS.
3. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO NJDOT STANDARDS, LATEST ED.
4. ALL TRAFFIC CONTROL DEVICES, SUCH AS SIGNS AND STRIPING, ARE TO BE INSTALLED AND DESIGNED IN ACCORDANCE WITH THE MOST RECENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES(MUTCD) AND NJDOT STANDARDS.
5. ALL PAINTED TRAFFIC MARKINGS SUBJECTED TO VEHICLE MOVEMENTS MUST BE HOT EXTRUDED THERMOPLASTIC PAINT WITH GLASS BEADS IN COMPLIANCE WITH THE LATEST NJDOT SPECIFICATIONS.
6. ALL PAVEMENT SUBGRADE IS SUBJECT TO THE REVIEW AND APPROVAL OF A GEOTECHNICAL ENGINEER.
7. ANY EXISTING CURB, SIDEWALK, TREES, LIGHTING FIXTURES, ETC., OUTSIDE OF THE PROJECT LIMIT OR NOTED TO BE MAINTAINED AND PROTECTED THAT IS DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED IN-KIND BY THE CONTRACTOR, TO THE SATISFACTION OF THE OWNER. REPLACEMENT WORK SHALL BE BY THE CONTRACTOR AT NO COST TO THE OWNER.

SURVEY NOTES:

1. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO ANY EASEMENT, RESTRICTION AND/OR COVENANTS THAT A CURRENT REPORT OF TITLE, OR COMPLETE SEARCH OF THE PUBLIC RECORD, MAY DISCLOSE.
2. THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE FOLLOWING SOURCES OF INFORMATION
   -DEEDS OF RECORD
   -AN ACTUAL FIELD SURVEY PERFORMED BY PENNONI ASSOCIATES
3. BLOCK AND LOT NUMBERS REFER TO THE OFFICIAL TAX MAPS OF THE CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY, PLATE 8.12.
4. PLANIMETRIC & TOPOGRAPHIC FEATURES SHOWN ARE TAKEN FROM ACTUAL FIELD SURVEYS PERFORMED BY PENNONI ASSOCIATES IN JULY 2024.
5. THIS SURVEY IS NOT INTENDED TO GUARANTEE OWNERSHIP.
6. SURVEY BASED ON N.J.S.P.C.S. NAD '83 (2011) (USFT). VERTICAL DATUM: NAVD 1988 (GEOID 18B)
7. IT IS BEYOND THE SCOPE OF THIS SURVEY TO DETERMINE THE EXISTENCE OR NON-EXISTENCE OF ANY REGULATED ENVIRONMENTAL CONDITION ON OR NEAR THE SUBJECT PARCEL(S). UNDERGROUND EXPLORATIONS WERE NOT CONDUCTED OR UTILIZED DURING THE PREPARATION OF THIS SURVEY. CONCERNED PARTIES SHOULD PURSUE ANY ENVIRONMENTAL MATTERS SEPARATE AND APART FROM THIS SURVEY.
8. THIS PLAN HAS BEEN DIGITALLY SIGNED IN ACCORDANCE WITH N.J.A.C. 13:40-8.1A AND THUS CARRIES THE SAME WEIGHT, AUTHORITY AND EFFECT AS A HANDWRITTEN SIGNATURE AND IMPRESSION-TYPE SEAL.
9. THE LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. ALL LOCATIONS ILLUSTRATED ARE BASED UPON UTILITY MARKOUT BY SOFTDIG UNDERGROUND SERVICES AND ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD. THE STATE OF NEW JERSEY REQUIRES NOTIFICATION PRIOR TO ANY EXCAVATION BY UTILIZING THE NEW JERSEY ONE-CALL SYSTEM (1-800-272-1000).
10. THE WORD CERTIFIES (CERTIFY) IN THE CONTEXT OF THE CERTIFICATION ON THIS PLAN SHALL BE DEFINED AS A RENDERING OF A PROFESSIONAL OPINION BASED ON THE FACTS AND INFORMATION AVAILABLE TO THE SIGNATORY AT THE TIME OF MAKING THIS SURVEY.
11. ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
12. SANITARY SEWER MANHOLES WERE UNACCESSIBLE AT TIME OF SURVEY. INVERT AND PIPE INFORMATION ALONG WITH UNDERGROUND UTILITIES DESIGNATED AS "QL-D" TAKEN FROM PLANS ENTITLED "HOLTEC TECHNOLOGY CENTER", BY T&M ASSOCIATES, DATED 10/21/2015, REVISED 9/15/16. SHEETS 18 & 19 OF 54.
13. A CONVERSION FACTOR OF 1.1 FEET IS ADDED TO 1988 NAVD TO OBTAIN 1929 NGVD, FOR EXAMPLE:

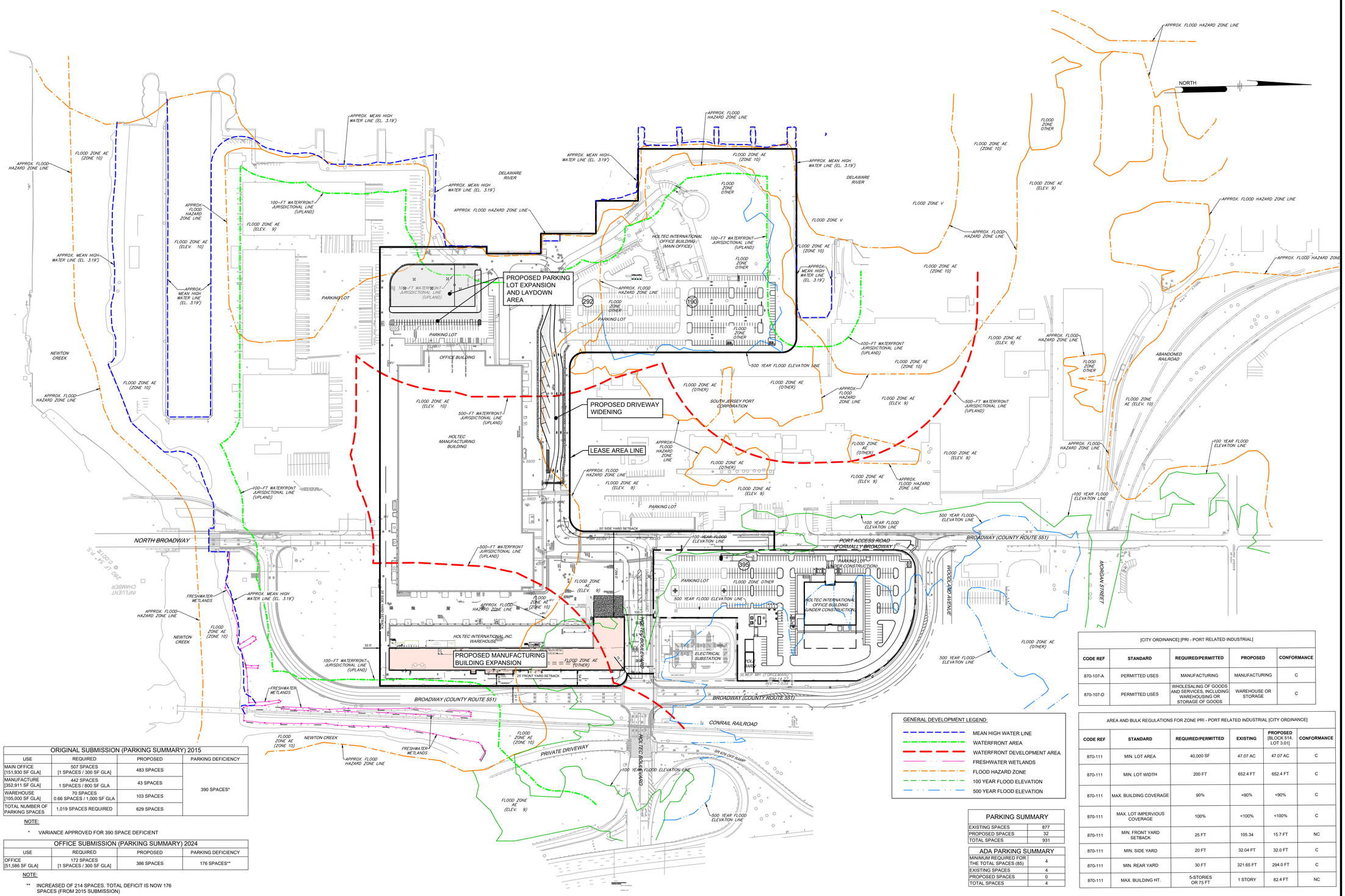
ELEVATION (1988 NAVD)		CONVERSION FACTOR		ELEVATION (1929NGVD)
11.50'	+	1.1'	=	12.60'

PLAN REFERENCES::

1. PLAN SET TITLED "HOLTEC TECHNOLOGY CENTER BLOCK 457 - LOT 16, P/O BLOCK 455 - LOT 1, BLOCKS 511, 512, 514 AND 515, SHEET 1-54 PREPARED BY T&M ASSOCIATES, DATED FEBRUARY 17, 2015.

UTILITY NOTES:

1. COVER OVER ALL WATER MAINS & FIRE SERVICES SHALL BE 4'-0" MINIMUM.
2. THE CONTRACTOR SHALL NOTIFY THE LOCAL ELECTRIC COMPANY IN ADVANCE OF CONSTRUCTION FOR TEMPORARY SUPPORT OF UTILITY POLES.
3. THE CONTRACTOR SHALL COMPLY WITH ALL STANDARDS SET FORTH BY THE LOCAL M.U.A. & CITY.
4. THE LOCATION AND/OR DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE & MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
5. ALL TRENCHES WILL BE BACKFILLED BY COMPACTION IN EIGHT (8) INCH LAYERS COMPACTED TO 95% DENSITY IN STRICT ACCORDANCE WITH THE TRENCH DETAILS & SPECIFICATIONS.
6. NO MATERIAL SHALL BE PLACED OR DISTURBED BEYOND THE PROPERTY LINE OF RIGHT-OF-WAY WITHOUT WRITTEN PERMISSION OF THE PROPERTY OWNERS DIRECTLY INVOLVED.
7. INSPECTION OF, OR FAILURE TO INSPECT ANY MATERIALS OR WORKMANSHIP BY THE ENGINEER FOR THE M.U.A. SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PERFORM THE WORK IN ACCORDANCE WITH THE PLAN, SPECIFICATIONS AND APPLICABLE LAWS.
8. WHENEVER THE TRENCH BOTTOM DOES NOT AFFORD SUFFICIENT BEARING STRENGTH TO SUSTAIN THE WEIGHT OF THE PIPE & SUPERIMPOSED LOADS, THE TRENCH BOTTOM SHALL BE OVER-EXCAVATED & STABILIZED WITH SIX (6) INCHES MINIMUM THICK LAYERS OF CRUSHED STONE, AS DIRECTED BY THE ENGINEER.
9. ALL GENERAL CONSTRUCTION MATERIALS, TESTING & METHODS OF INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE M.U.A. & THE ENGINEER.
10. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM VARIOUS SOURCES & ARE SHOWN FOR DESIGN & ESTIMATED PURPOSED ONLY. ACTUAL LOCATIONS OF UTILITIES SHALL BE FIELD VERIFIED. ANY DISCREPANCIES OR APPARENT CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER FOR REMEDIATION.
11. CONCRETE ENCASEMENT SHALL BE PROVIDED FOR ALL PIPE/UTILITY CROSSING WHERE LESS THAN EIGHTEEN INCHES OF CLEARANCE WILL RESULT, SUBJECT TO THE REQUIREMENTS OF THE UTILITY COMPANY.
12. EXISTING UTILITIES INCLUDING VALVE BOXES, CLEAN OUTS, CURB STOPS, MANHOLES, ETC., SHALL BE ADJUSTED TO MATCH PROPOSED FINISHED GRADE. STORM DRAINAGE STRUCTURES SHALL NOT BE ADJUSTED UNLESS SPECIFICALLY CALLED FOR.
13. THE CONTRACTORS ARE ADVISED THAT ANY REQUIRED UNDERGROUND UTILITY RELOCATION'S INCLUDING GAS MAINS AND SERVICES, WATER MAINS AND SERVICES, SEWER MAINS AND SERVICES, ELECTRIC AND TELEPHONE LINES SHALL BE COMPLETED AT NO COST TO THE OWNER UNLESS SPECIFICALLY NOTED OTHERWISE.
14. LOCATION OF ALL ELECTRICAL EQUIPMENT, CIRCUITS, AND INSTALLED ELECTRICAL APPLIANCES IN A MANNER WHICH WILL ASSURE THAT THEY ARE NOT SUBJECT TO INUNDATION AND FLOODING.
15. INLET PIPE OPENINGS SHALL BE SEALED WITH NON-SHRINK DRY-PACKED GROUT OR APPROVED EQUAL.
16. INSTALLATION OF ALL WATER AND SEWER MAINS AND WATER AND SEWER SERVICES MUST COMPLY WITH CITY ORDINANCE.
17. THE CITY ENGINEER, AND AMERICAN WATER ENTERPRISES SHALL BE GIVEN 48 HOURS ADVANCE NOTICE OF SANITARY SEWER/WATER MAIN WORK AND THE REPRESENTATIVES MUST WITNESS THE WORK AND CONNECTION.
18. ALL EXISTING WATER SERVICE LINES TO BE ABANDONED SHALL BE CUT AND CAPPED AT THE MAIN, IN ACCORDANCE WITH CAPITAL IMPROVEMENTS AND PROJECT MANAGEMENT (CIP) STANDARDS, AND INSPECTED WITHIN 24 HOURS AFTER INSTALLATION OF NEW TAP.
19. ALL JOINTS AND FITTINGS SHALL BE SPECIFIED IN THE CITY ORDINANCE WATER MAIN STANDARD.
20. CONTRACTOR IS REQUIRED TO SUBMIT RECORD DRAWINGS IN ACCORDANCE WITH THE ORDINANCE FOR WATER SERVICE LINES AND SEWER LATERALS.
21. ALL SEWER INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE PROCEDURE MANUAL OF THE CITY OF CAMDEN.
22. ALL METER INSTALLATIONS IN METER PIT OR VAULT SHALL BE PRE-APPROVED BY CIP AND HAVE PROPER ACCESS OPENINGS FOR METER READING AND REPLACEMENT.
23. UPON COMPLETION OF THE WATER/SEWER INSTALLATION,



ORIGINAL SUBMISSION (PARKING SUMMARY) 2015			
USE	REQUIRED	PROPOSED	PARKING DEFICIENCY
MAIN OFFICE [151,930 SF GLA]	507 SPACES [1 SPACES / 300 SF GLA]	483 SPACES	390 SPACES*
MANUFACTURE [352,911 SF GLA]	442 SPACES 1 SPACES / 800 SF GLA	43 SPACES	
WAREHOUSE [105,000 SF GLA]	70 SPACES 0.66 SPACES / 1,000 SF GLA	103 SPACES	
TOTAL NUMBER OF PARKING SPACES	1,019 SPACES REQUIRED	629 SPACES	

NOTE:

* VARIANCE APPROVED FOR 390 SPACE DEFICIENT

OFFICE SUBMISSION (PARKING SUMMARY) 2024			
USE	REQUIRED	PROPOSED	PARKING DEFICIENCY
OFFICE [51,586 SF GLA]	172 SPACES [1 SPACES / 300 SF GLA]	386 SPACES	176 SPACES**

NOTE:

** INCREASED OF 214 SPACES. TOTAL DEFICIT IS NOW 176 SPACES (FROM 2015 SUBMISSION)

PROPOSED SUBMISSION (PARKING SUMMARY)			
USE	REQUIRED	PROPOSED	PARKING DEFICIENCY
MANUFACTURE [74,870 SF GLA]	94 SPACES [1 SPACES / 800 SF GLA]	32 SPACES	144 SPACES***

NOTE:

*** INCREASED OF 32 SPACES. TOTAL DEFICIT IS NOW 144 SPACES (FROM 2024 SUBMISSION)

GENERAL DEVELOPMENT LEGEND:

- MEAN HIGH WATER LINE
- WATERFRONT AREA
- WATERFRONT DEVELOPMENT AREA
- FRESHWATER WETLANDS
- FLOOD HAZARD ZONE
- 100 YEAR FLOOD ELEVATION
- 500 YEAR FLOOD ELEVATION

PARKING SUMMARY	
EXISTING SPACES	877
PROPOSED SPACES	32
TOTAL SPACES	931

ADA PARKING SUMMARY	
MINIMUM REQUIRED FOR THE TOTAL SPACES (85)	4
EXISTING SPACES	4
PROPOSED SPACES	0
TOTAL SPACES	4

[CITY ORDINANCE] [PRI - PORT RELATED INDUSTRIAL]

CODE REF	STANDARD	REQUIRED/PERMITTED	PROPOSED	CONFORMANCE
870-107-A	PERMITTED USES	MANUFACTURING	MANUFACTURING	C
870-107-D	PERMITTED USES	WHOLESALING OF GOODS AND SERVICES, INCLUDING WAREHOUSING OR STORAGE OF GOODS	WAREHOUSE OR STORAGE	C

AREA AND BULK REGULATIONS FOR ZONE PRI - PORT RELATED INDUSTRIAL [CITY ORDINANCE]

CODE REF	STANDARD	REQUIRED/PERMITTED	EXISTING	PROPOSED [BLOCK 514, LOT 3.01]	CONFORMANCE
870-111	MIN. LOT AREA	40,000 SF	47.07 AC	47.07 AC	C
870-111	MIN. LOT WIDTH	200 FT	652.4 FT	652.4 FT	C
870-111	MAX. BUILDING COVERAGE	90%	<90%	<90%	C
870-111	MAX. LOT IMPERVIOUS COVERAGE	100%	<100%	<100%	C
870-111	MIN. FRONT YARD SETBACK	25 FT	105.34	15.7 FT	NC
870-111	MIN. SIDE YARD	20 FT	32.04 FT	32.0 FT	C
870-111	MIN. REAR YARD	30 FT	321.65 FT	294.0 FT	C
870-111	MAX. BUILDING HT.	5-STORIES OR 75 FT	1 STORY	82.4 FT	NC

0 150' 300'

NOT FOR CONSTRUCTION

Pennoni

NJ COA GA28033300

PENNONI ASSOCIATES INC.
2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8600 F 856.668.8610

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING
BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY
GENERAL DEVELOPMENT PLAN

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	DATE	REVISIONS	BY

ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

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DATE	APRIL 22, 2026
DRAWING SCALE	1"=150'
DRAWN BY	EAB
APPROVED BY	JJR

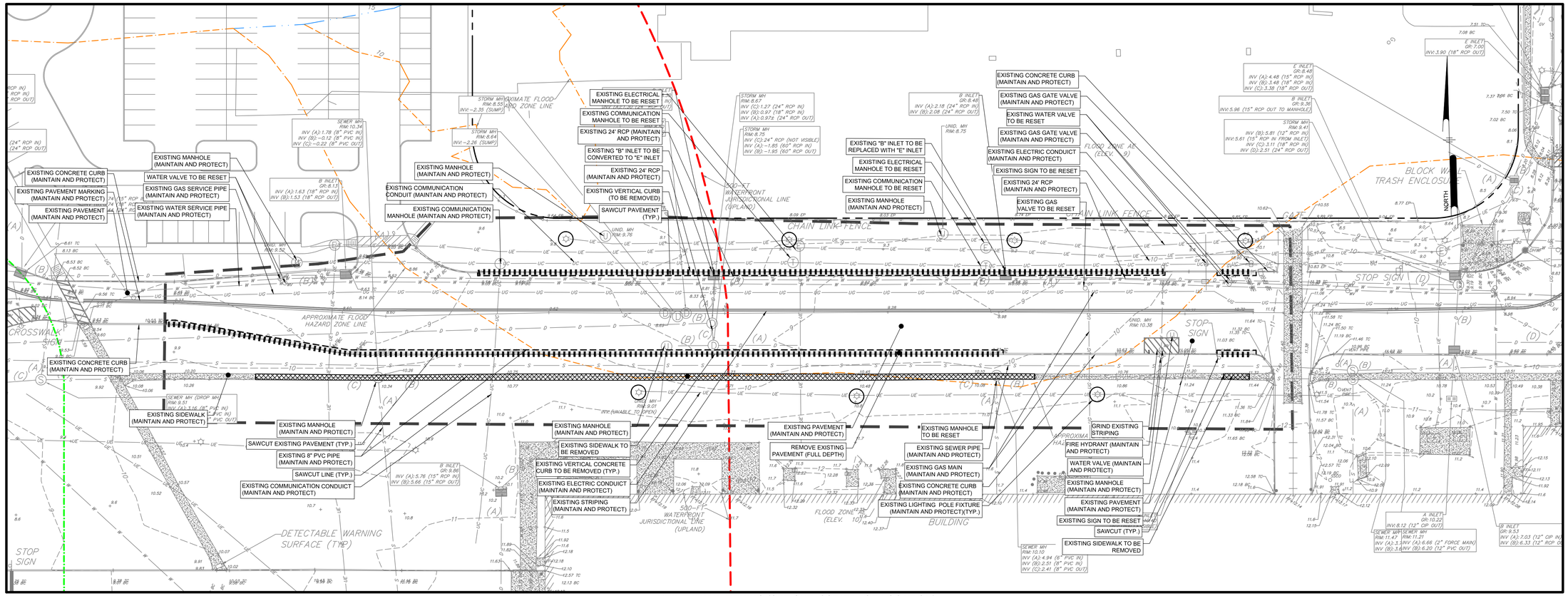
CS0400

SHEET 3 OF 22

U:\Accounts\USATX\USATX24001 - Holtec Warehouse\DESIGN_SHEETS\CS0400.dwg PLOTTED: 4/21/2026 3:19 PM, BY: Eduardo Beltran PLOTSTYLE: Pennoni NCS.stb PROJECT STATUS: —

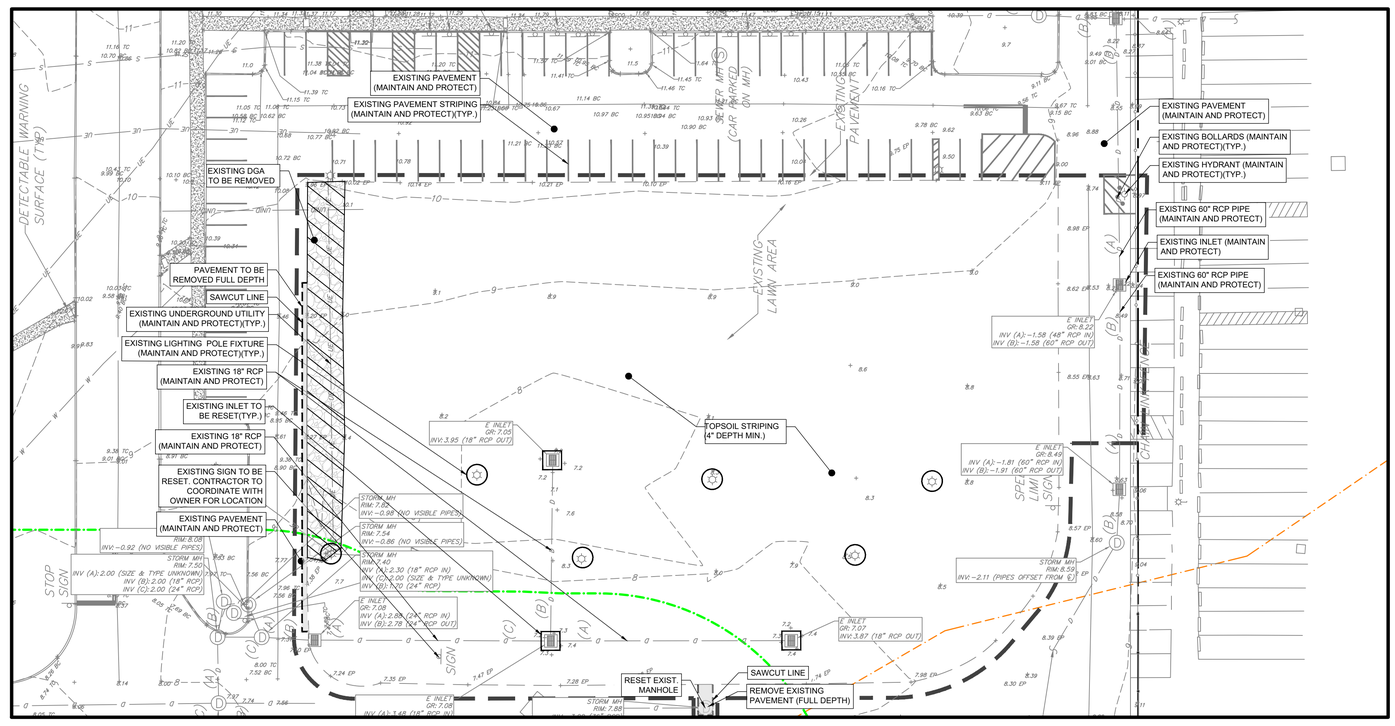
DRIVEWAY WIDENING (SEE SHT. CS0400 FOR LOCATION)

SCALE: 1"=30'



PARKING LOT EXPANSION (SEE SHT. CS0400 FOR LOCATION)

SCALE: 1"=30'



DEMOLITION LEGEND:

- PAVEMENT REMOVAL (FULL DEPTH)
- CONCRETE REMOVAL
- DGA REMOVAL
- SAWCUT PAVEMENT
- LIGHTING POLE FIXTURE TO MAINTAIN
- INLETS TO RESET
- LIMIT OF DISTURBANCE

0 30' 60'

NOT FOR CONSTRUCTION

Pennoni

N.J COA GA28033300

PENNONI ASSOCIATES INC.
2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8600 F 856.668.8610

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NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING
BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

DEMOLITION PLAN I

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	DATE	REVISIONS	BY

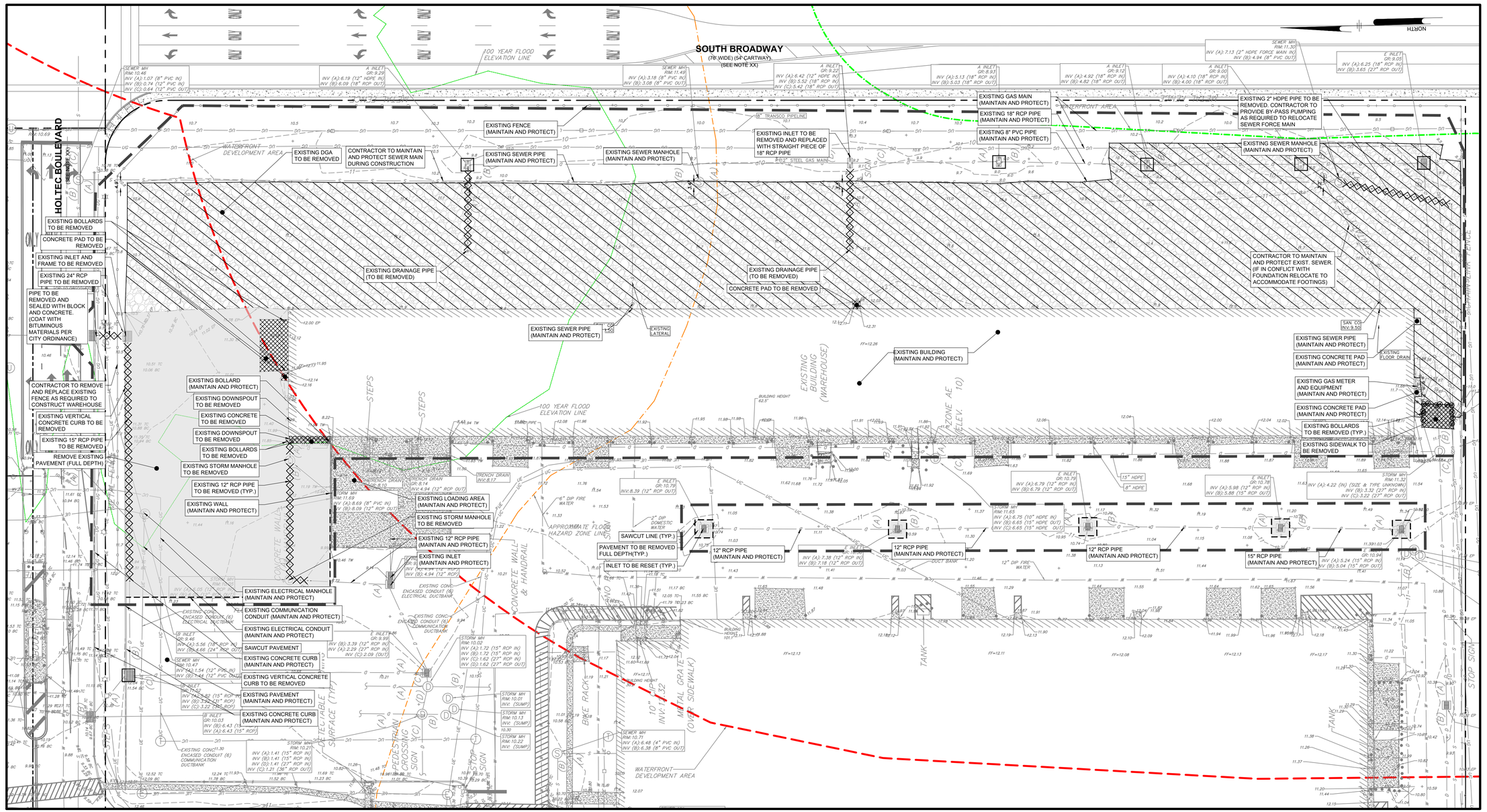
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PROJECT	USATX24001
DATE	APRIL 22, 2026
DRAWING SCALE	1"=30'
DRAWN BY	EAB
APPROVED BY	JJR

CS0500

SHEET 4 OF 22

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WAREHOUSE EXPANSION (SEE SHT. CS0400 FOR LOCATION)
SCALE: 1"=30'

DEMOLITION LEGEND:

- PAVEMENT REMOVAL (FULL DEPTH)
- CONCRETE REMOVAL
- DGA REMOVAL
- CONCRETE CURB REMOVAL
- PIPE REMOVAL
- UTILITY LINE REMOVAL
- SAWCUT PAVEMENT
- INLETS TO MAINTAIN
- LIMIT OF DISTURBANCE

0 30' 60'

NOT FOR CONSTRUCTION

Pennoni
NJ COA GA28033300
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Camden, NJ 08103
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JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING
BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

DEMOLITION PLAN II

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	DATE	REVISIONS	BY

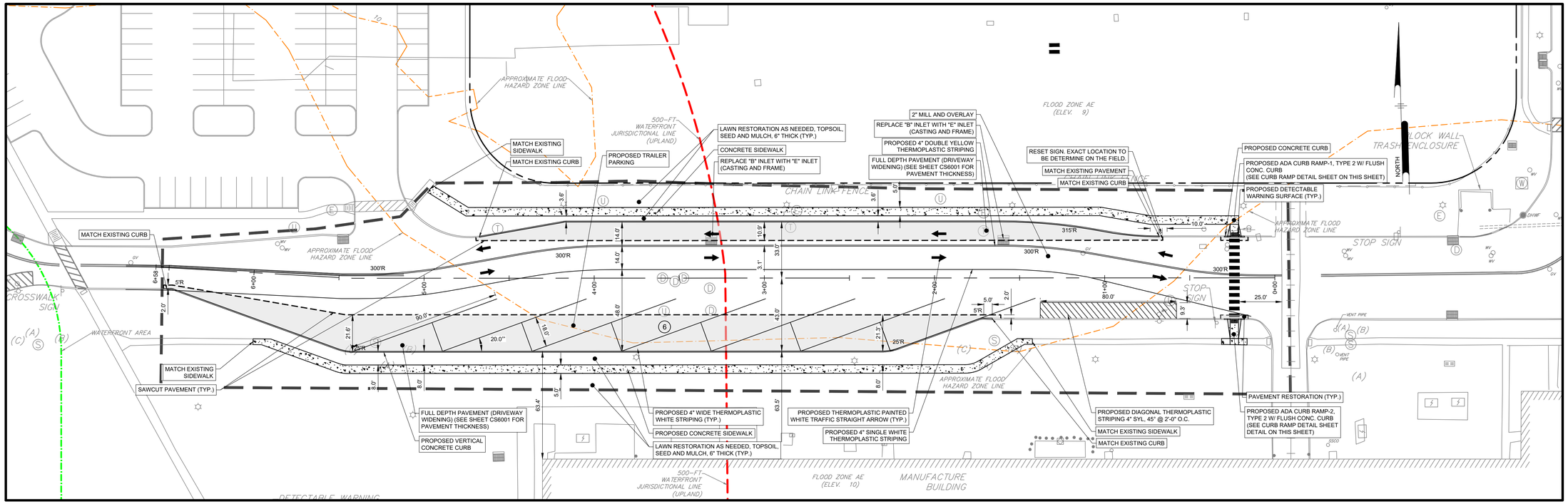
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PROJECT	USATX24001
DATE	APRIL 22, 2026
DRAWING SCALE	1"=30'
DRAWN BY	EAB
APPROVED BY	JJR

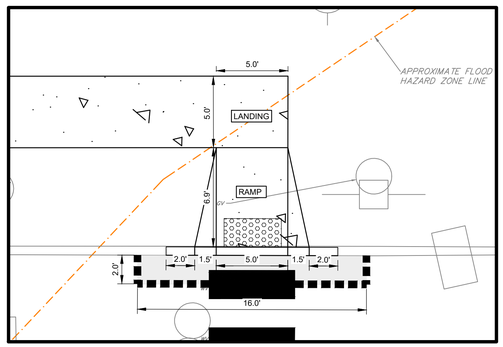
CS0501

SHEET 5 OF 22

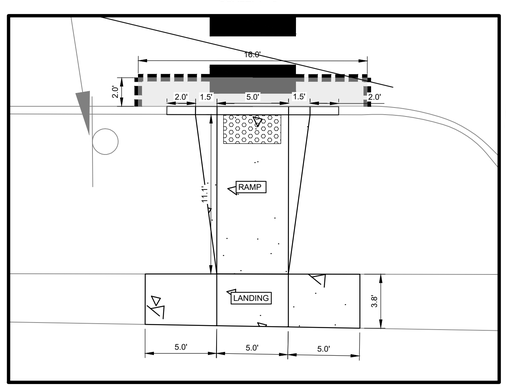
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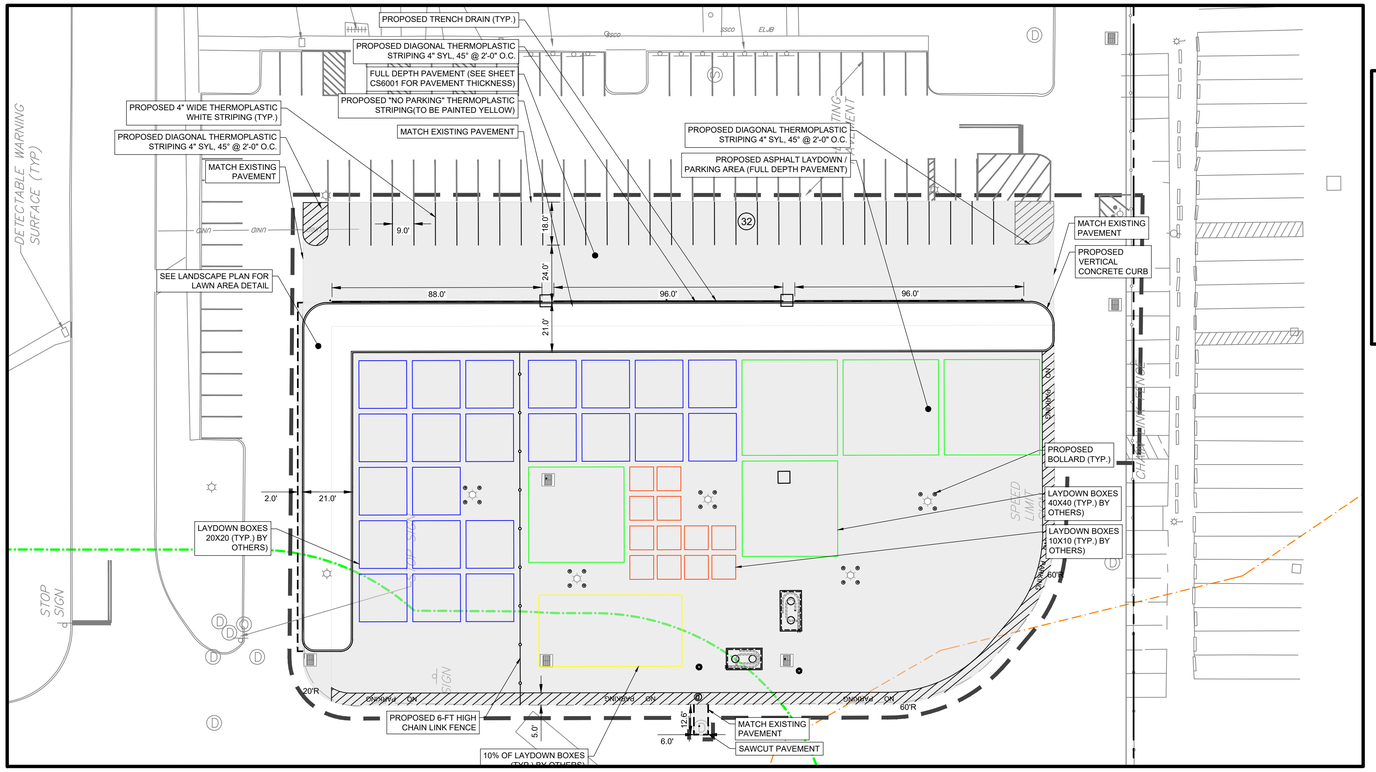
ROAD WIDENING (SEE SHT. CS0400 FOR LOCATION)
SCALE: 1"=30'



ADA RAMP LAYOUT DETAIL NO. 1
SCALE: 1"=5'



ADA RAMP LAYOUT DETAIL NO. 2
SCALE: 1"=5'



PARKING LOT EXPANSION (SEE SHT. CS0400 FOR LOCATION)
SCALE: 1"=30'

SITE LEGEND:

- FULL DEPTH PAVEMENT
- CONCRETE SIDEWALK
- LAWN
- THERMOPLASTIC STRIPING
- CONCRETE CURB
- BOLLARD
- PAVEMENT ARROW MARKING
- CROSSWALK
- (32) PARKING COUNT
- SAWCUT LINE

0 5' 10'

0 30' 60'

NOT FOR CONSTRUCTION

Pennoni
NJ COA GA28033300
PENNONI ASSOCIATES INC.
2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8600 F 856.668.8610

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NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING
BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

SITE PLAN I

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	DATE	REVISIONS	BY

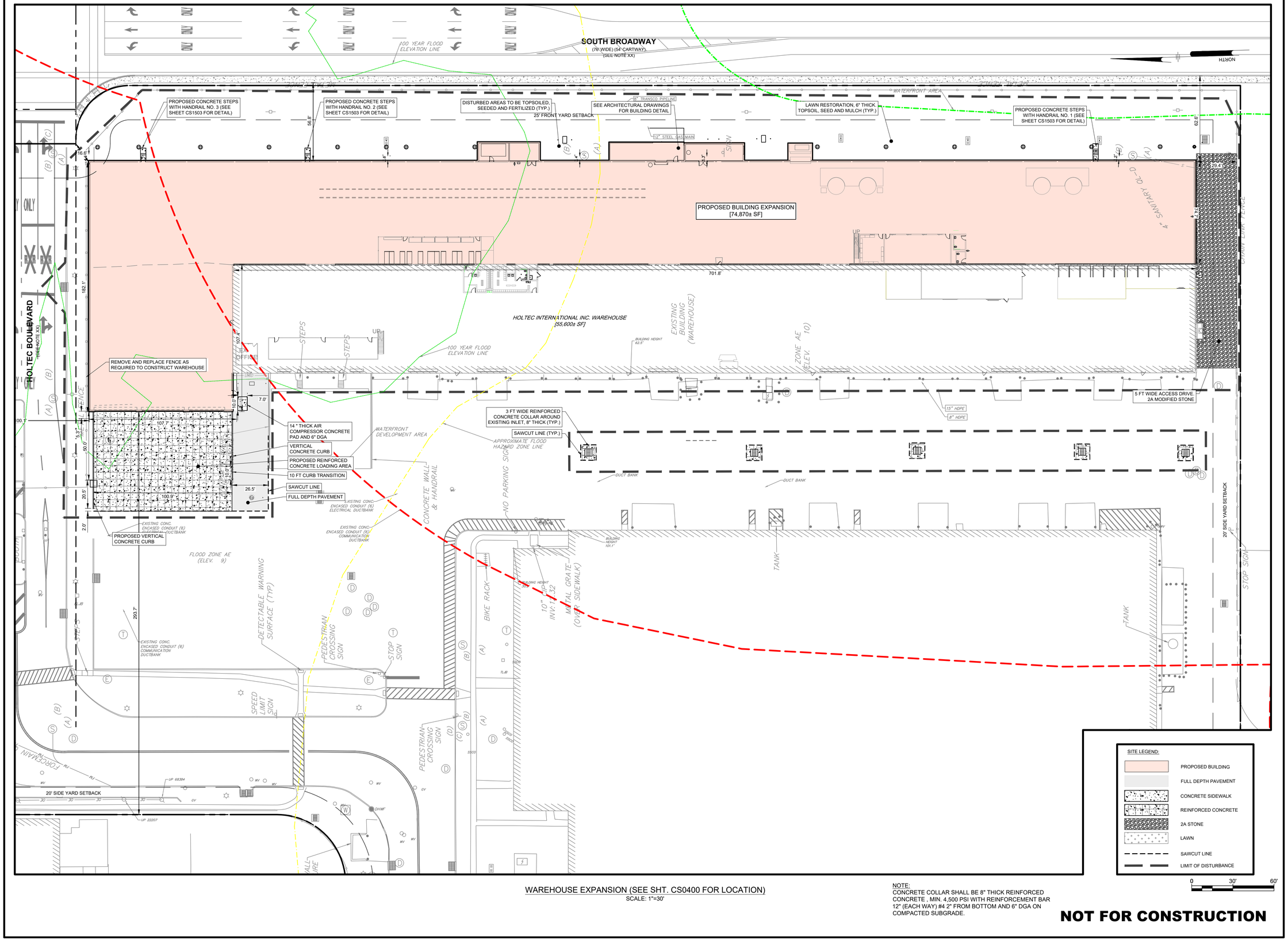
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PROJECT	USATX24001
DATE	APRIL 22, 2026
DRAWING SCALE	1"=30'
DRAWN BY	EAB
APPROVED BY	JJR

CS1001

SHEET 6 OF 22

PLOTTED: 4/21/2026 8:34 AM, BY: Eduardo Beltran PLOTSTYLE: Pennoni NCS.ctb
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WAREHOUSE EXPANSION (SEE SHT. CS0400 FOR LOCATION)
SCALE: 1"=30'

NOTE:
CONCRETE COLLAR SHALL BE 8" THICK REINFORCED CONCRETE , MIN. 4,500 PSI WITH REINFORCEMENT BAR 12" (EACH WAY) #4 2" FROM BOTTOM AND 6" DGA ON COMPACTED SUBGRADE.

NOT FOR CONSTRUCTION

Pennoni
NJ COA GA28033300
PENNONI ASSOCIATES INC.
2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8600 F 856.668.8610

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JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING

BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

SITE PLAN II

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	DATE	REVISIONS	BY

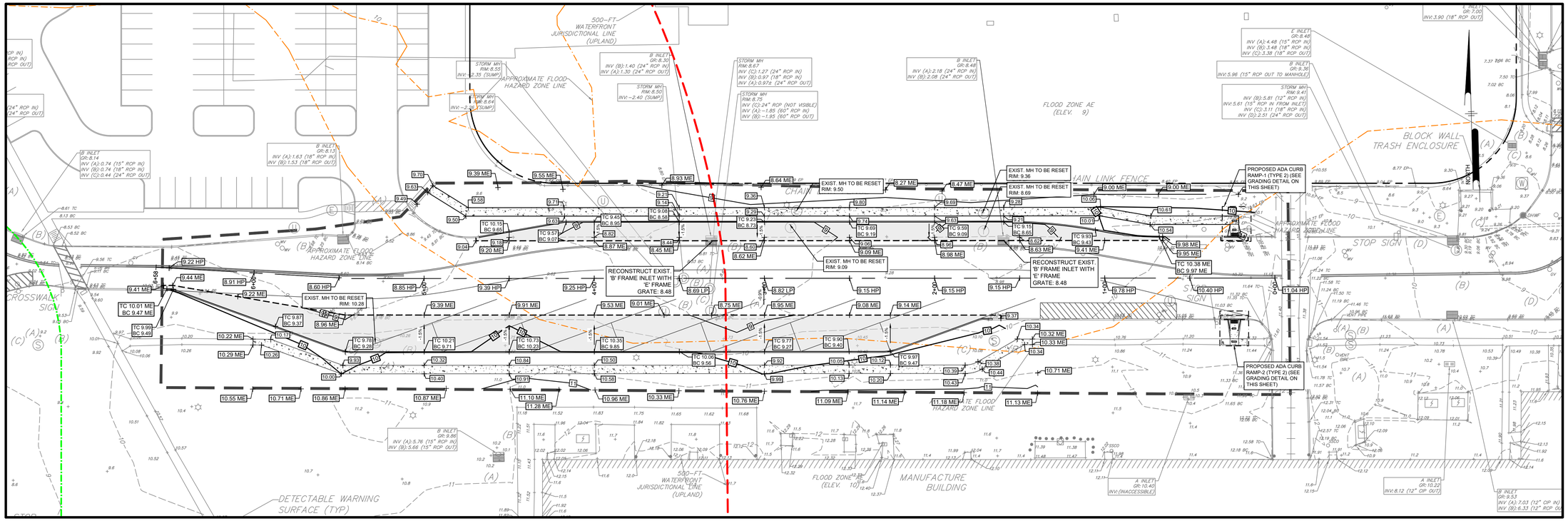
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PROJECT	USATX24001
DATE	APRIL 22, 2026
DRAWING SCALE	1"=30'
DRAWN BY	EAB
APPROVED BY	JJR

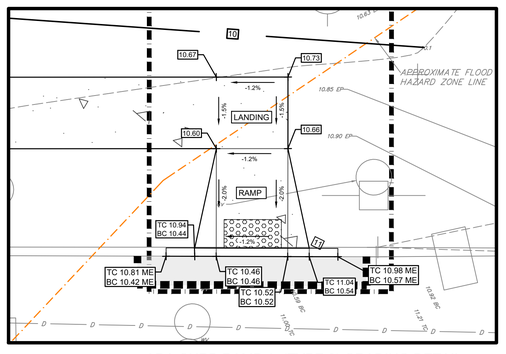
CS1002

SHEET 7 OF 22

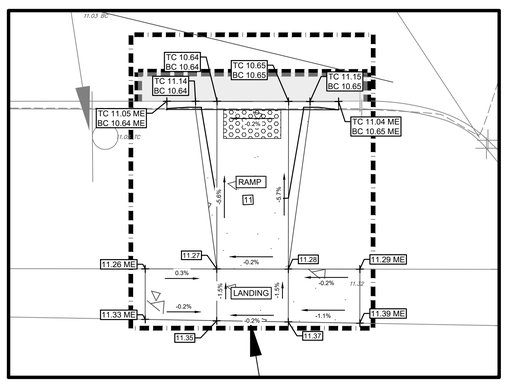
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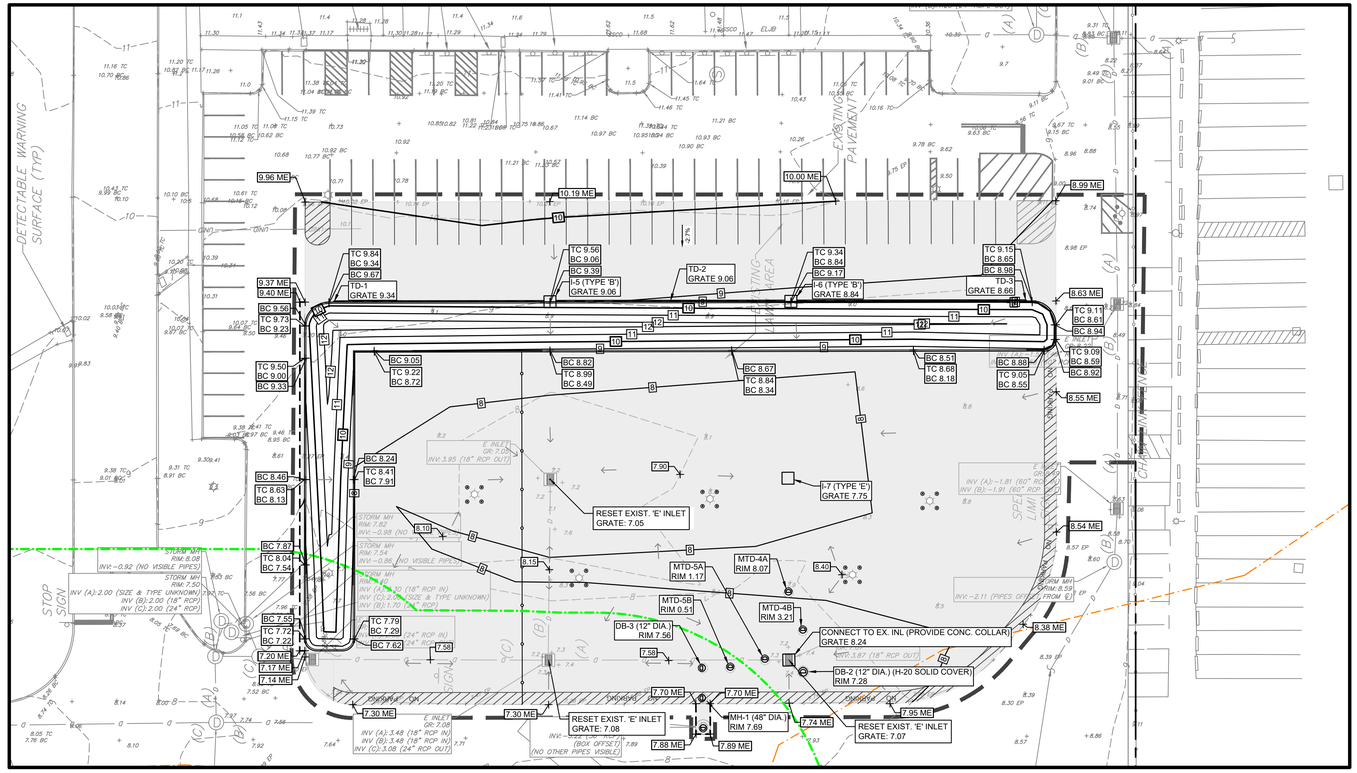
ROAD WIDENING (SEE SHT. CS0400 FOR LOCATION)
SCALE: 1"=30'



ADA CURB RAMP 1- (TYPE 2) GRADING DETAIL
SCALE: 1"=5'



ADA CURB RAMP 2- (TYPE 2) GRADING DETAIL
SCALE: 1"=5'



PARKING LOT EXPANSION (SEE SHT. CS0400 FOR LOCATION)
SCALE: 1"=30'

GRADING LEGEND:
- CONTOUR ELEVATION
- SPOT ELEVATION
- SLOPE
- ARROW FLOW
- LIMIT OF DISTURBANCE

NORTH

0 5' 10'
0 30' 60'

NOT FOR CONSTRUCTION

Pennoni
NJ COA GA28033300
PENNONI ASSOCIATES INC.
2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8600 F 856.668.8610

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768
4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING
BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

GRADING PLAN I

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	DATE	REVISIONS	BY

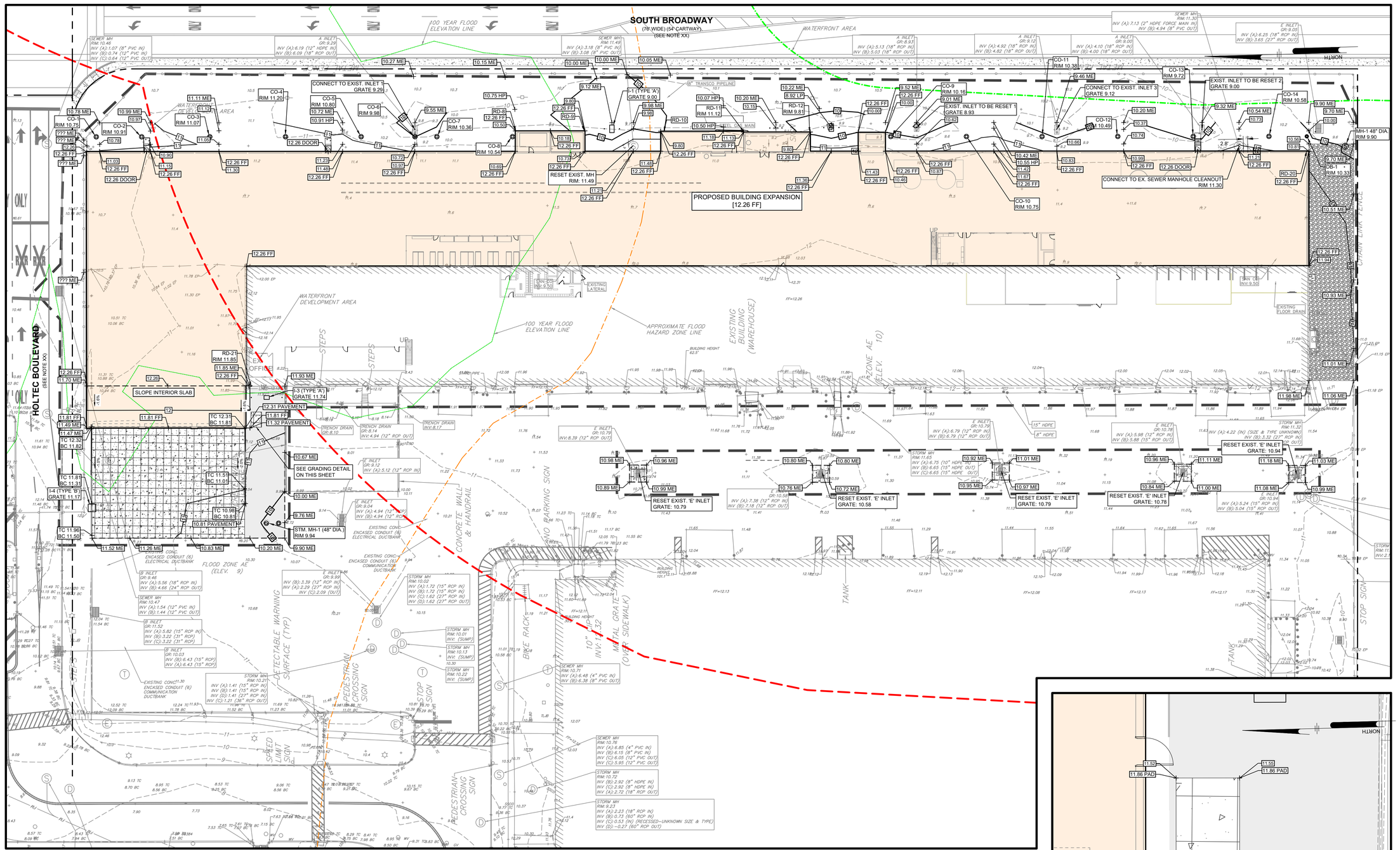
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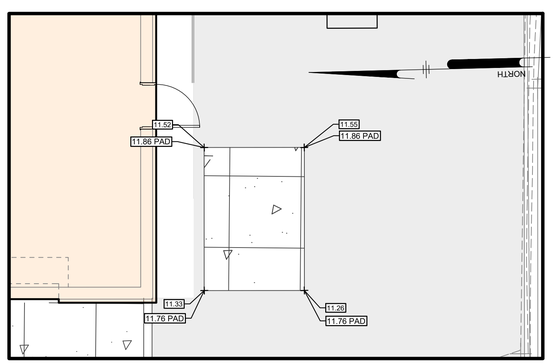
PROJECT	USATX24001
DATE	APRIL 22, 2026
DRAWING SCALE	1"=30'
DRAWN BY	EAB
APPROVED BY	JJR

CS1501

SHEET 8 OF 22

U:\Accounts\USATX\USATX24001 - Holtec Warehouse\DESIGN_SHEETS\CS1501.dwg PLOTTED: 4/21/2026 1:38 PM, BY: Eduardo.Beltran PLOTSTYLE: Pennoni MCS.ctb





WAREHOUSE EXPANSION (SEE SHT. CS0400 FOR LOCATION)
SCALE: 1"=30'

AIR COMPRESSOR GRADING
SCALE: 1"=5'

NOTE:

1. ALL UTILITIES AND RELATED APPURTENANCES ON THE SITE SHALL BE LOCATED UNDERGROUND OR IN THE BUILDING. WHERE OVERHEAD ELECTRIC OR TELEPHONE DISTRIBUTION SUPPLY LINES AND SERVICE CONNECTIONS HAVE BEEN INSTALLED FROM THOSE OVERHEAD LINES, THE CONNECTIONS FROM THE UTILITIES' OVERHEAD LINES MUST BE INSTALLED UNDERGROUND.
2. CONTRACTOR TO VERIFY EXISTING FINISHED FLOOR OF WAREHOUSE

GRADING LEGEND:
- CONTOUR ELEVATION
- 9.14 SPOT ELEVATION
- -2.0% SLOPE

0 5' 10'
0 30' 60'

NOT FOR CONSTRUCTION

Pennoni
NJ COA GA28033300
PENNONI ASSOCIATES INC.
2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8600 F 856.668.8610

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NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING
BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

GRADING PLAN II

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	DATE	REVISIONS	BY

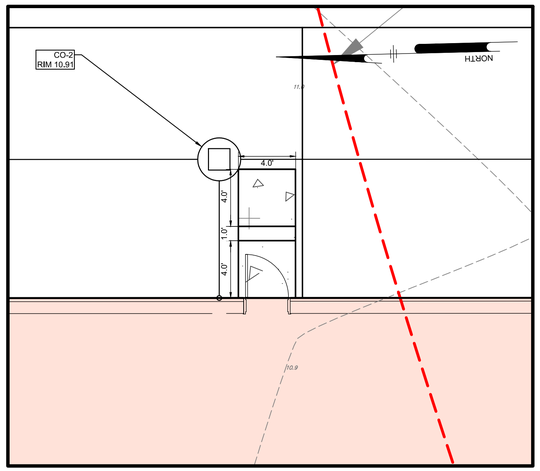
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PROJECT	USATX24001
DATE	APRIL 22, 2026
DRAWING SCALE	1"=30'
DRAWN BY	EAB
APPROVED BY	JJR

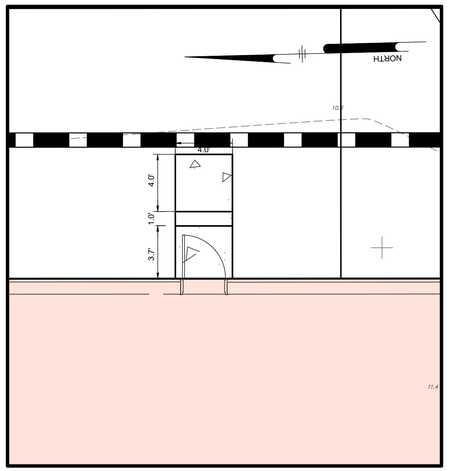
CS1502

SHEET 9 OF 22

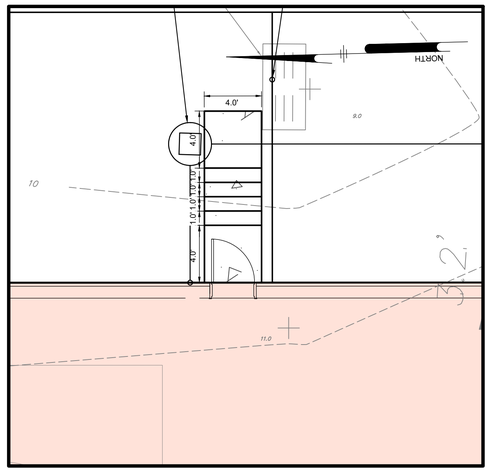
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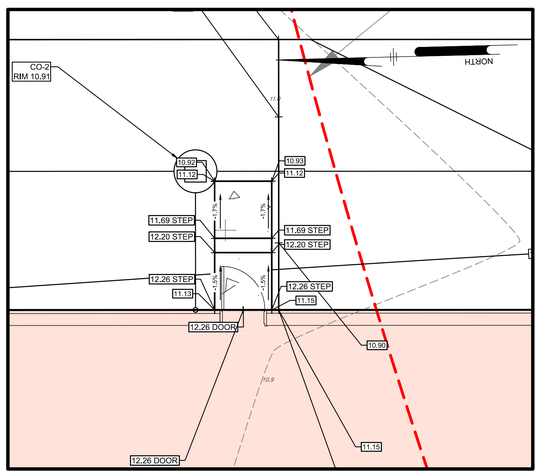
STEPS LAYOUT NO. 3 DETAIL
SCALE: 1"=5'



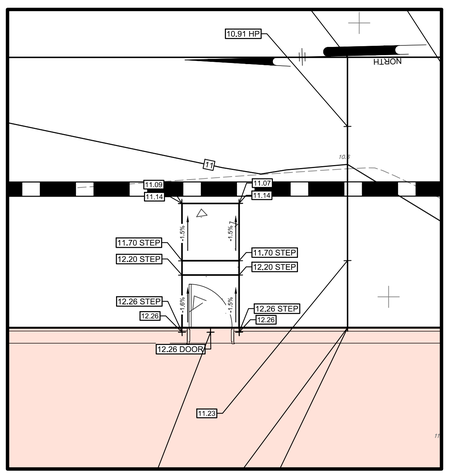
STEPS LAYOUT NO. 2 DETAIL
SCALE: 1"=5'



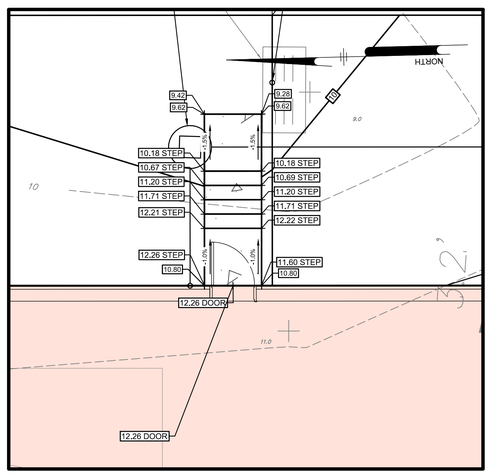
STEPS LAYOUT NO. 1 DETAIL
SCALE: 1"=5'



STEPS GRADING NO. 3 DETAIL
SCALE: 1"=5'



STEPS GRADING NO. 2 DETAIL
SCALE: 1"=5'



STEPS GRADING NO. 1 DETAIL
SCALE: 1"=5'

0 5' 10'

NOT FOR CONSTRUCTION

Pennoni
NJ COA GA28033300
PENNONI ASSOCIATES INC.
2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8600 F 856.668.8610

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NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING
BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

GRADING DETAIL PLAN

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	DATE	REVISIONS	BY

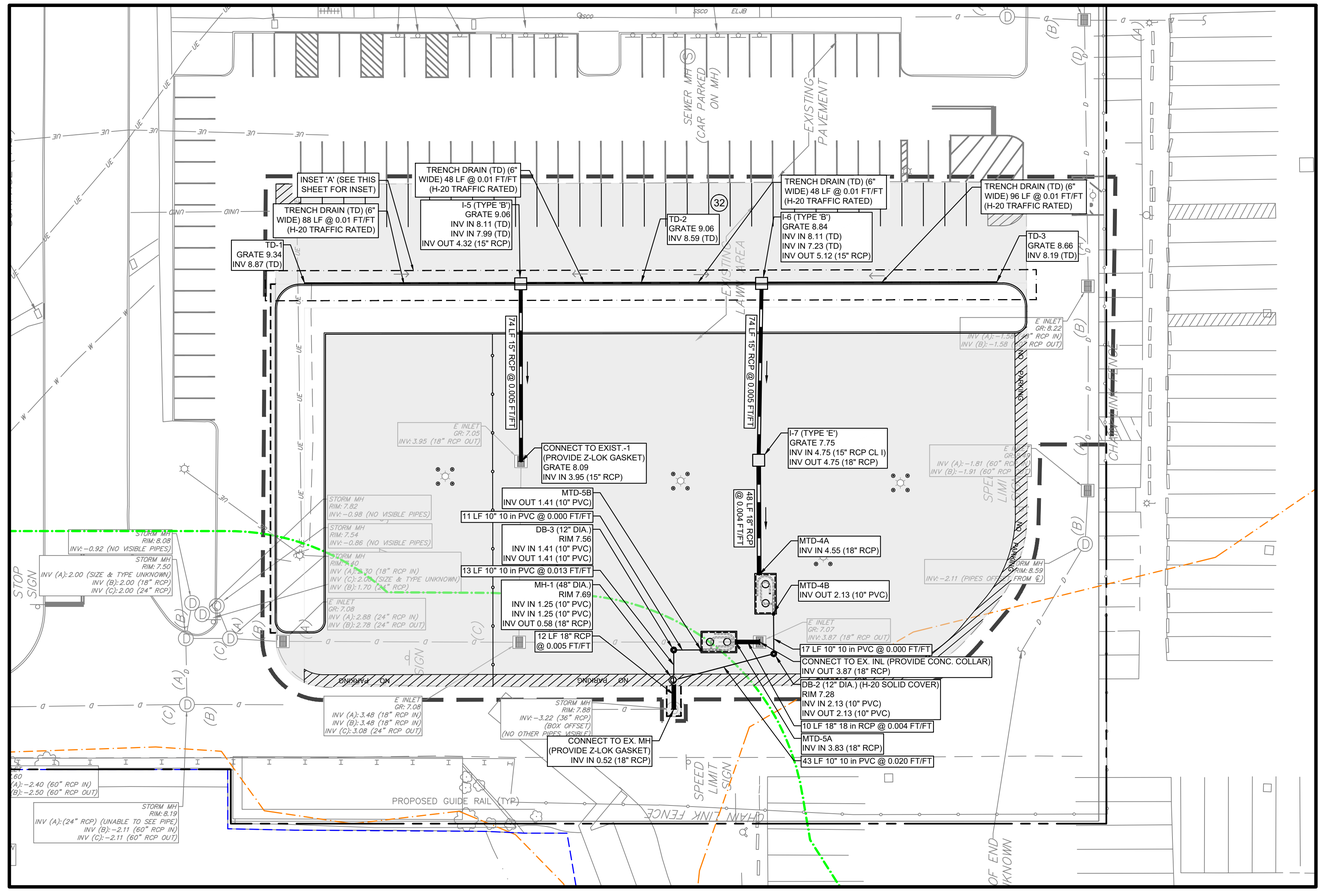
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PROJECT	USATX24001
DATE	APRIL 22, 2026
DRAWING SCALE	1"=5'
DRAWN BY	EAB
APPROVED BY	JJR

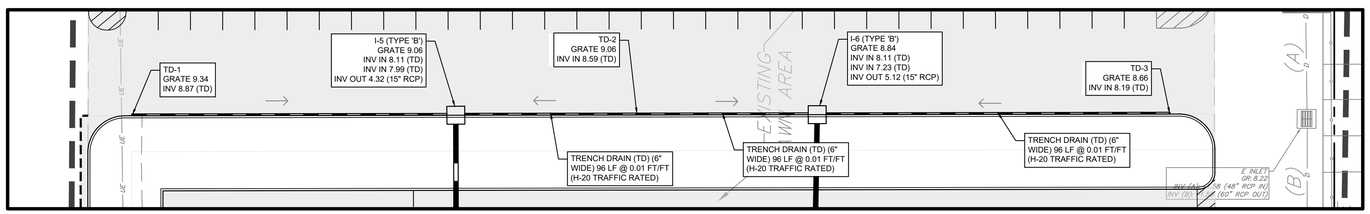
CS1503

SHEET 10 OF 22

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PARKING LOT EXPANSION AND LAYDOWN AREA (SEE SHT. CS0400 FOR LOCATION)
SCALE: 1"=30'



INSET 'A' - TRENCH DRAIN
SCALE: 1"=20'

DRAINAGE LEGEND:

- SEWER LINE
- STORM STRUCTURES
- TRENCH DRAIN

0 20' 40'

0 30' 60'

NOT FOR CONSTRUCTION

Pennoni

NJ COA GA28033300

PENNONI ASSOCIATES INC.
2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8600 F 856.668.8610

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NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING

BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

DRAINAGE AND UTILITY PLAN I

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	DATE	REVISIONS	BY

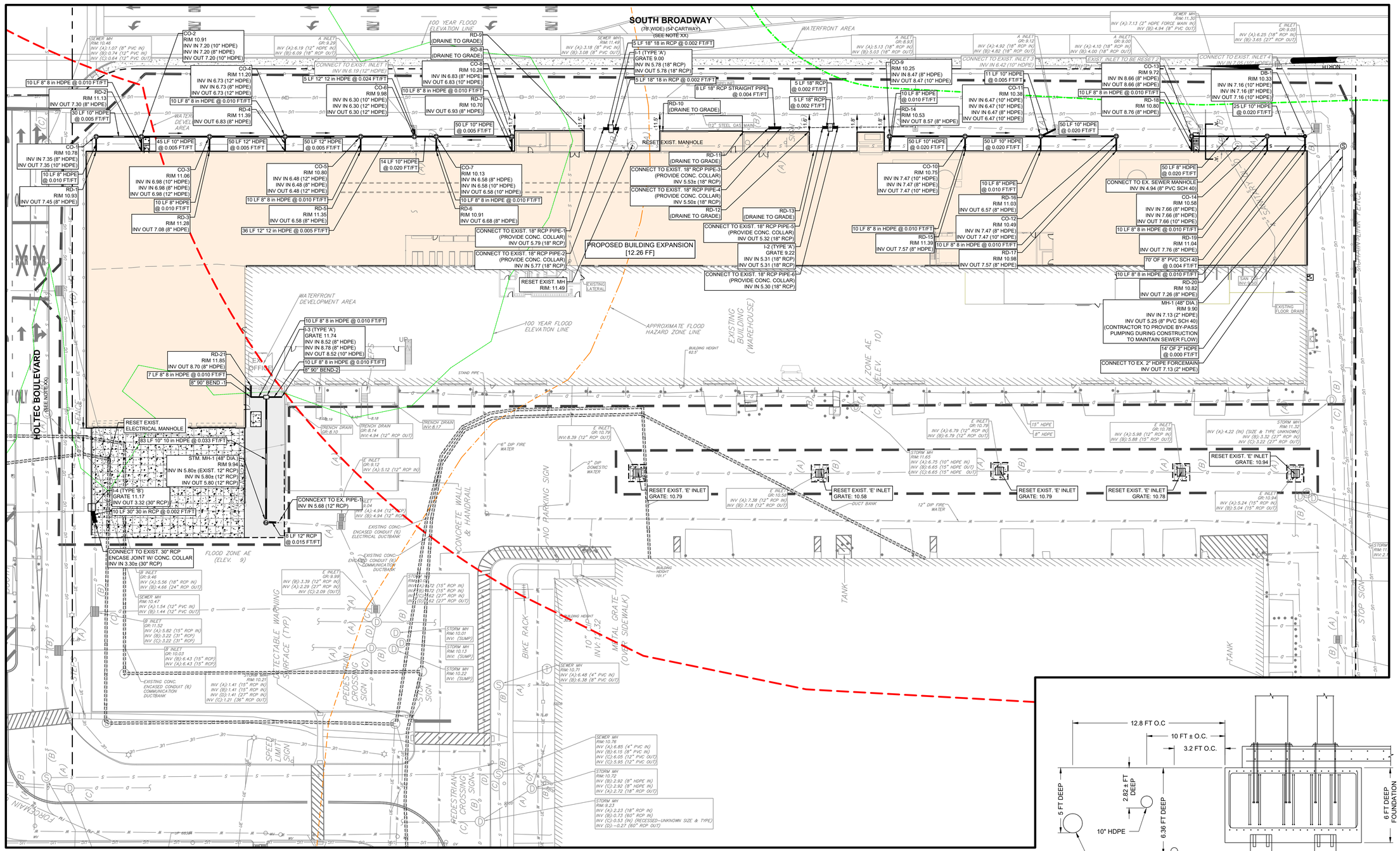
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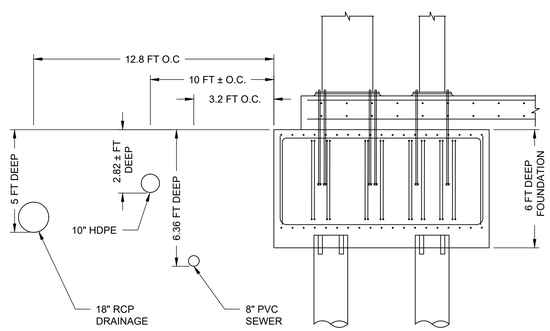
PROJECT	USATX24001
DATE	APRIL 22, 2026
DRAWING SCALE	1"=30'
DRAWN BY	EAB
APPROVED BY	JJR

CS1702

SHEET 11 OF 22

U:\Accounts\USATX\USATX24001 - Holtec Warehouse\DESIGN_SHEETS\CS1702.dwg PLOTTED: 4/21/2026 9:37 AM, BY: Eduardo Beltran PLOTSTYLE: Pennoni WCS.ctb





CROSS SECTION 'A' OF FOOTING AND UTILITIES
N.T.S.

WAREHOUSE EXPANSION (SEE SHT. CS0400 FOR LOCATION)
SCALE: 1"=30'

NOTE:

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DRAINAGE LEGEND:

- SEWER LINE
- STORM STRUCTURES
- SEWER LINE
- MANHOLE

0 30' 60'

NOT FOR CONSTRUCTION

Pennoni
NJ COA GA28033300

PENNONI ASSOCIATES INC.
2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8000 F 856.668.8610

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NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING
BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

DRAINAGE AND UTILITY PLAN II

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	DATE	REVISIONS	BY

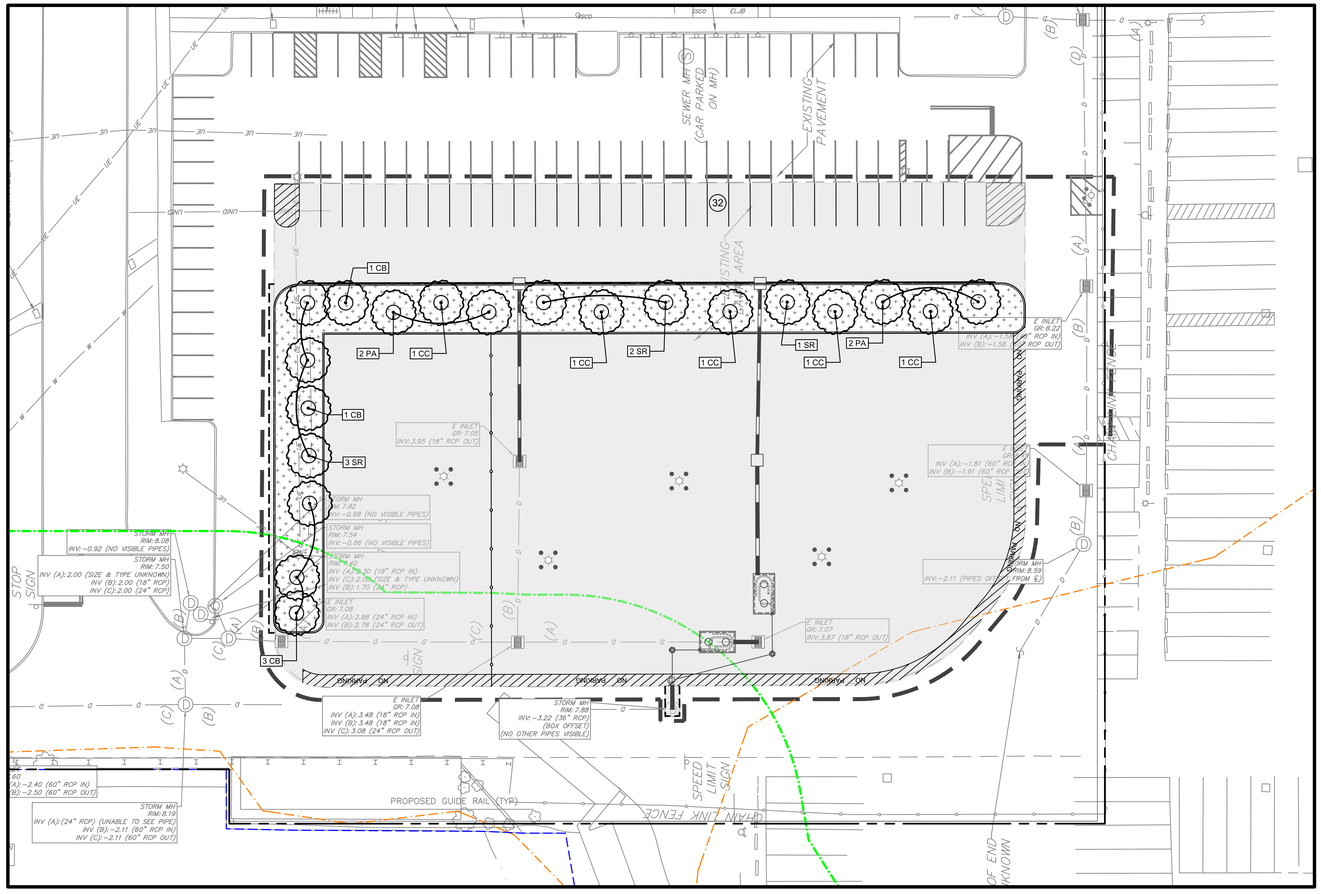
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PROJECT	USATX24001
DATE	APRIL 22, 2026
DRAWING SCALE	1"=30'
DRAWN BY	EAB
APPROVED BY	JJR

CS1701

SHEET 12 OF 22

U:\Accounts\USATX\USATX24001 - Holtec Warehouse\DESIGN_SHEETS\CS1701.dwg PLOTTED: 4/21/2026 11:31 AM, BY: Eduardo Beltran PLOTSTYLE: Pennoni NCS.ctb

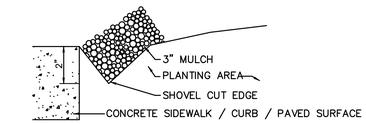


PARKING LOT EXPANSION AND LAYDOWN AREA (SEE SHT. CS0400 FOR LOCATION)
SCALE: 1"=30'

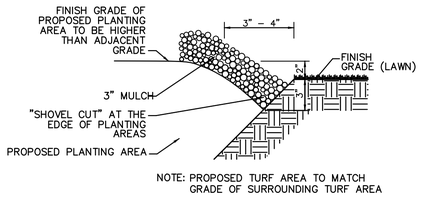
NORTH

LANDSCAPING SCHEDULE MAIN BUILDING PARKING LOT EXPANSION

QTY	ITEM	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	ROOT	COMMENTS
TREE							
5	CB	CARPINUS BETULUS 'FASTIGIATA'	COLUMNAR HORNBEAM	2.5" CAL	AS SHOWN	B&B	STRAIGHT TRUNK, FULL HEAD
5	CC	CERCIS CANADENSIS	EASTERN REDBUD	2.5" CAL	AS SHOWN	B&B	STRAIGHT TRUNK, FULL HEAD
4	PA	PLATINUS X ACERFOLIA 'COLUMBIA'	COLUMBIA PLANETREE	2.5" CAL	AS SHOWN	B&B	STRAIGHT TRUNK, FULL HEAD
6	SR	SYRINGA RETICULATA 'IVORY SILK'	IVORY SILK LILAC	2.5" CAL	AS SHOWN	B&B	STRAIGHT TRUNK, FULL HEAD



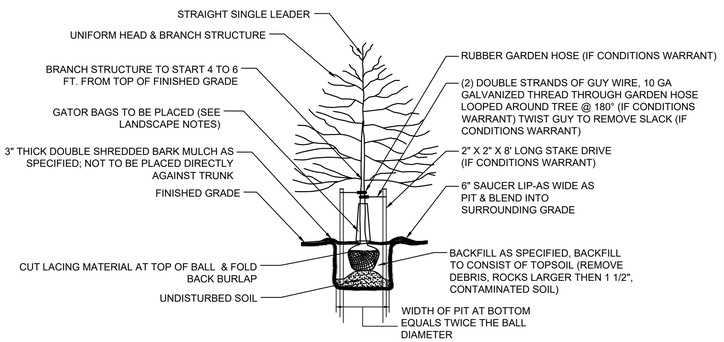
TYPICAL EDGING DETAIL AT PAVING



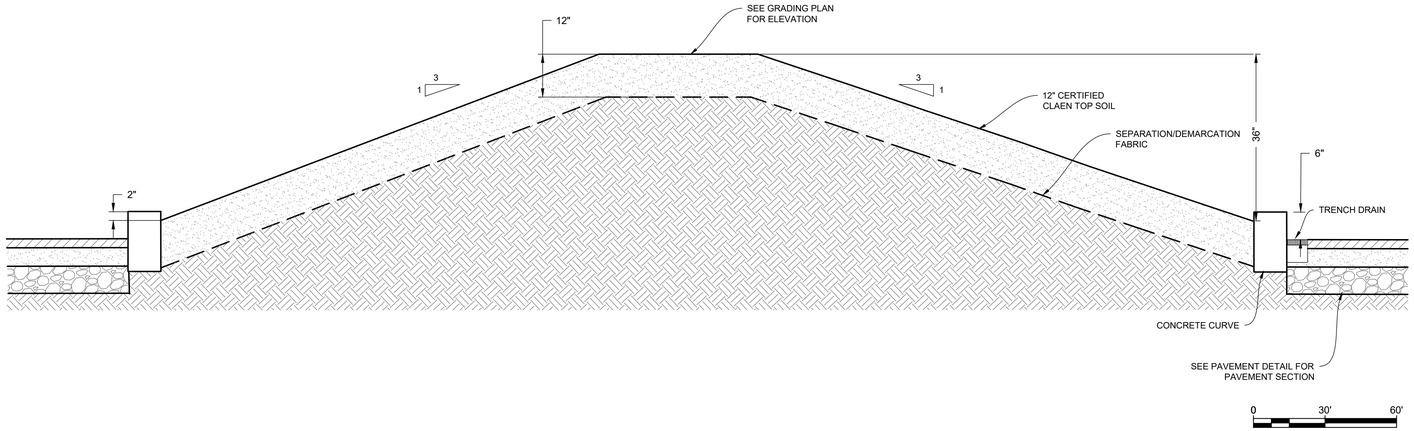
NOTE: PROPOSED TURF AREA TO MATCH GRADE OF SURROUNDING TURF AREA

TYPICAL EDGING DETAIL AT LAWN

1 MULCH EDGING
NOT TO SCALE



2 TREE PLANTNG DETAIL
NOT TO SCALE



3 TYPICAL BERM CROSS-SECTION
NOT TO SCALE

NOT FOR CONSTRUCTION

Pennoni
NJ COA GA28033300
PENNONI ASSOCIATES INC.
2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8600 F 856.668.8610

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HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING
BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

LANDSCAPE PLAN

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	REVISIONS	BY	DATE

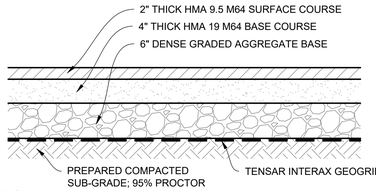
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PROJECT	USATX24001
DATE	APRIL 22, 2026
DRAWING SCALE	1"=30'
DRAWN BY	EAB
APPROVED BY	JJR

CS2001

SHEET 13 OF 22

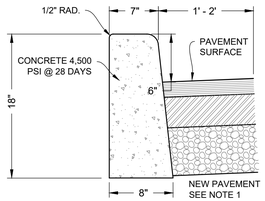
PLOTSTYLE: Pennoni NCS.stb
PLOTTED: 4/21/2026 9:43 AM BY: Eduardo Beltran
U:\Accounts\USATX\USATX24001 - Holtec Warehouse\DESIGN_SHEETS\CS2001.dwg



NOTES:

1. AGGREGATE BASE COURSE TO BE DENSE-GRADED AGGREGATE CONFORMING TO NJDOT 901.10, WITH LESS THAN 10 PERCENT FINER THAN THE NO. 200 SIEVE AND ALL FINES TO BE NON-PLASTIC.
2. SUBGRADE TO BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY, AS DETERMINED BY THE MODIFIED PROCTOR TEST, ASTM D 1557, AND SHALL CONSIST OF LOAD-BEARING FILL OR EXISTING STRATUM A MATERIALS CAPABLE OF ACHIEVING A CBR VALUE OF 5, THE MOISTURE CONTENT OF THE MATERIAL SHOULD ALSO BE MAINTAINED WITHIN +/- 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT.
3. SOFT OR UNSTABLE SUBGRADES SHALL BE REMOVED FOR A DEPTH OF NOT LESS THAN SIX INCHES AND A SUBBASE OF DENSE GRADED AGGREGATE SHALL BE INSTALLED

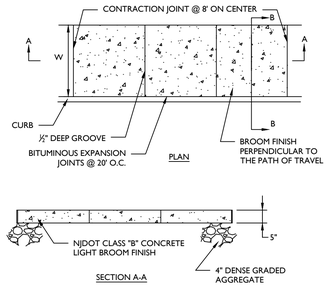
1 FULL DEPTH PAVEMENT DETAIL (PARKING LOT AND DRIVEWAY WIDENING)
NOT TO SCALE

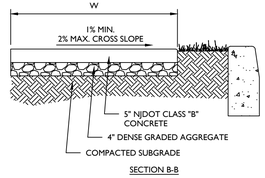


NOTES:

1. WHEN NEW CURB IS CONSTRUCTED ALONG AN EXISTING PAVED AREA, THE EXISTING PAVEMENT SHALL BE CUT IN A STRAIGHT LINE PARALLEL TO FACE OF NEW CURB WITH A SHARP TOOL AND THE NEW PAVEMENT SHALL BE TACKED AND BUTTED TO EXISTING PAVEMENT.
2. EXPANSION JOINTS ½" WIDE SHALL BE INSTALLED IN THE CURB 20' APART AND FILLED WITH CELLULAR COMPRESSION MATERIAL AS SPECIFIED AND RECESSED ½" FROM FACE AND TOP OF CURB. EXPANSION JOINTS TO BE INCLUDED IN PRICE BID FOR CURB. EXPANSION JOINTS TO BE INCLUDED IN PRICE BID FOR CURB. CONSTRUCTION JOINT SHALL BE CUT MID-POINT BETWEEN EXP. JOINTS.
3. WHERE NO ELEVATIONS ARE GIVEN ON THE PLAN, MATCH THE PROJECTED TOP OF EXISTING CURB. THE PROJECTED TOP OF CURB SHALL BE DETERMINED BY A STRING LINE.

2 VERTICAL CONCRETE CURB DETAIL
NOT TO SCALE

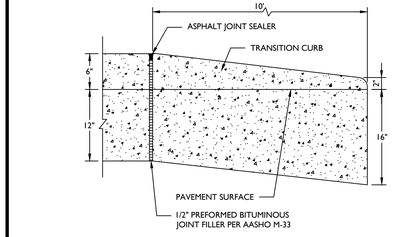




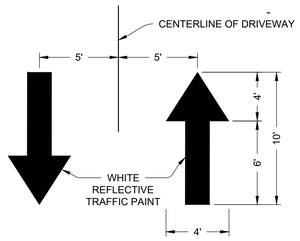
NOTES:

1. ½" EXPANSION JOINT FILLER INSTALLED BETWEEN THE CURB AND CONCRETE SIDEWALK AT 10' MAXIMUM SPACING, RECESS TO ¼" FROM THE TOP OF SIDEWALK.
2. ½" CONTRACTION JOINTS INSTALLED AT AN INTERVAL 24 TO 30 TIMES THE THICKNESS OF THE SLAB, TO A DEPTH OF ¼ OF THE THICKNESS OF THE SLAB, RECESS TO ¼" FROM THE TOP OF SIDEWALK, FOR THE FULL WIDTH OF THE SIDEWALK. SCORE A ¼" GROOVED JOINT HALF WAY BETWEEN THE CONTRACTION JOINTS.
3. JOINT FILLER SHALL CONFORM TO AASHTO M-33. SURFACE OF CONCRETE SHALL BE BROOM FINISH. ROUND EDGES USING AN EDGING TOOL WITH A ¼" RADIUS.
4. CONCRETE SIDEWALK SHALL BE CONSTRUCTED PER THE LATEST ADA REQUIREMENTS.

3 CONCRETE SIDEWALK (NEXT TO CURB) DETAIL
NOT TO SCALE

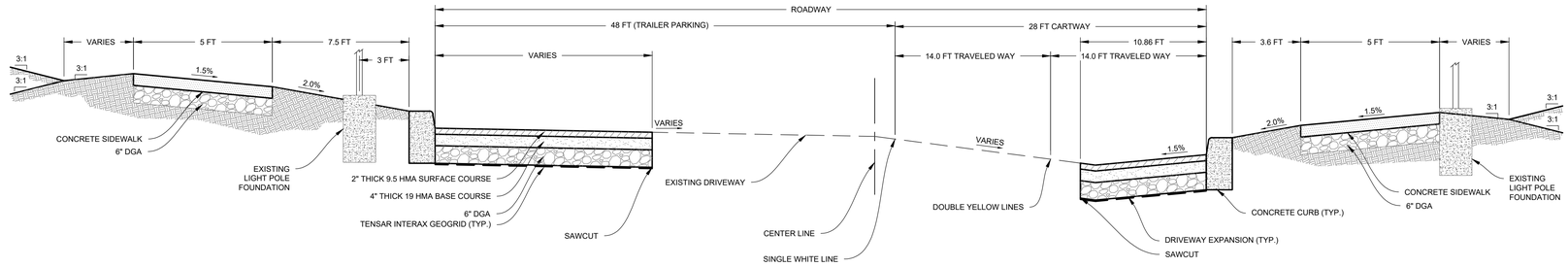


4 CURB TAPER DETAIL
NOT TO SCALE

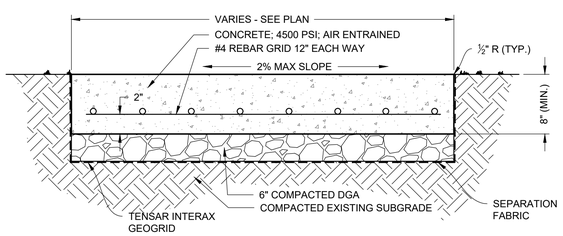


NOTE:
PAINT FOR TRAFFIC FLOW DIRECTIONAL ARROW SHALL BE WHITE HOT THERMOPLASTIC MATERIAL/PAINT

5 TRAFFIC FLOW DIRECTIONAL ARROW DETAIL
NOT TO SCALE



6 TYPICAL DRIVEWAY EXPANSION CROSS SECTION DETAIL
NOT TO SCALE

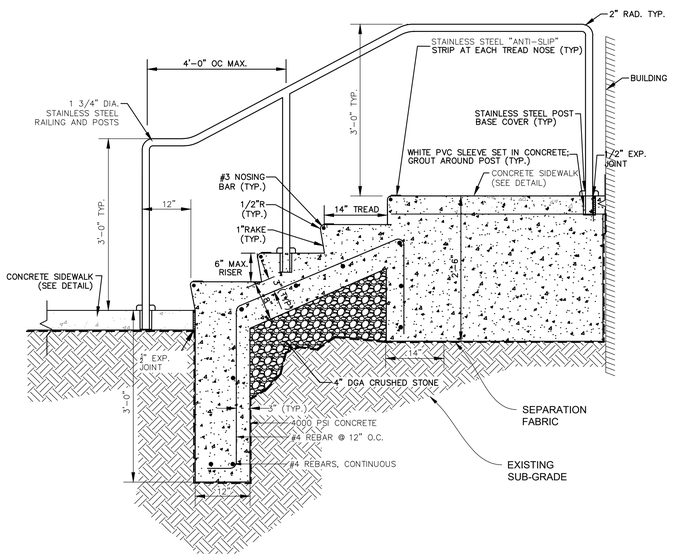


SECTION VIEW

NOTES:

1. EXPANSION JOINTS SHALL BE AT 15 FT C.C. MAXIMUM. EXPANSION JOINT LOCATIONS SHALL APPROVED BY ENGINEER/OWNER.
2. EXPANSION JOINT SHALL BE 1/2" MASTIC MATERIAL OR APPROVED EQUAL.
3. ALL EXPANSION JOINTS SHALL RECEIVE A BACKER ROD AND COLORED NON-SHRINK SEALER TO MATCH CONCRETE; SIKA OR EQUAL.
4. SUBGRADE SAHLL BE COMPACTED AND PROOF-ROLLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

7 REINF. CONC. PAD (DRIVEWAY APRON)
NOT TO SCALE



8 CONCRETE STEPS WITH HANDRAIL DETAIL
NOT TO SCALE

NOTE: ALL SITE WORK CONSTRUCTION AND DETAILS MUST CONFORM TO THE STANDARDS OF THE CITY OF CAMDEN SEPARATION FABRIC MUST BE INSTALLED ON ANY EXISTING SUBGRADE SURFACE PRIOR TO INSTALLING ANY NEW APPROVED MATERIAL

NOT FOR CONSTRUCTION

Pennoni
NJ COA GA28033300
PENNONI ASSOCIATES INC.
2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8600 F 856.668.8610

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING
BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

CONSTRUCTION DETAILS

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	REVISIONS	BY

NO.	DATE

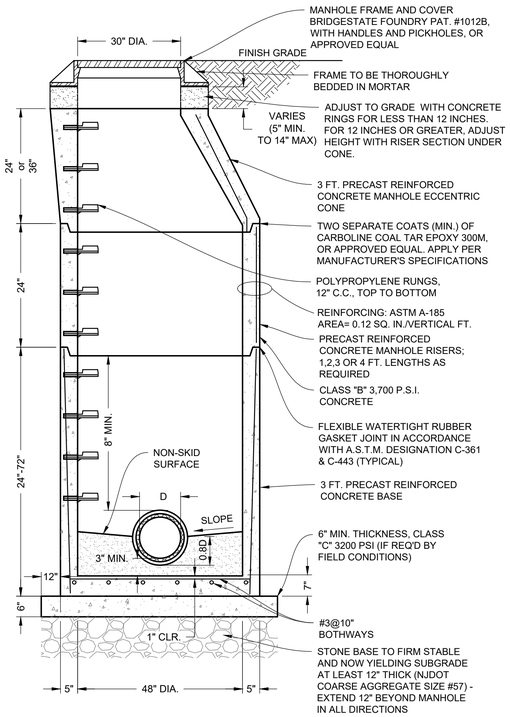
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PROJECT	USATX24001
DATE	APRIL 22, 2026
DRAWING SCALE	N.T.S.
DRAWN BY	EAB
APPROVED BY	JJR

CS6001

SHEET 14 OF 22

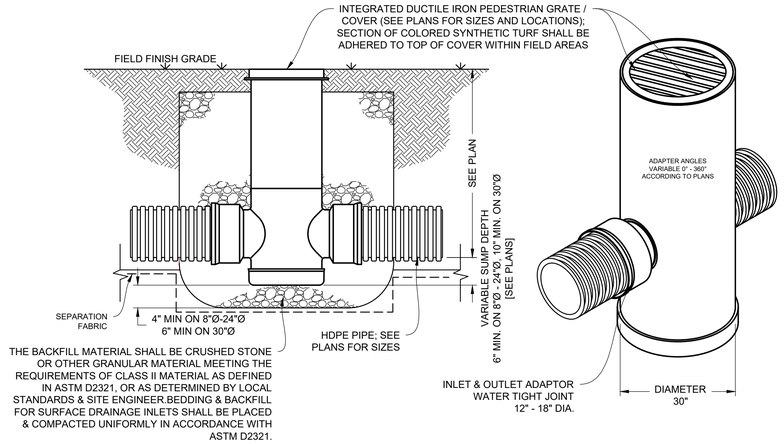
U:\Accounts\USATX\USATX2401 - Holtec Warehouse\DESIGN_SHEETS\CS6001.dwg PLOTTED: 4/21/2026 8:44 AM, BY: Eduardo Beltran PLOTSTYLE: Pennoni WCS.ctb



NOTES:

1. PRECAST MANHOLE IN ACCORDANCE WITH A.S.T.M DESIGNATION C-478, MINIMUM COMPRESSIVE STRENGTH 4000 P.S.I. (TYP.) MANHOLE TO BE MANUFACTURED BY ATLANTIC CONCRETE, OR APPROVED EQUAL.
2. ALL MANHOLES NOT LOCATED IN CROWN OF ROAD SHALL BE CONSTRUCTED WATERTIGHT WITHOUT THE USE OF A RUBBER GASKET. WATER TIGHTNESS MAY BE ACHIEVED BY DISH SHAPED INSERTS, WATERTIGHT CASTING, OR APPROVED EQUAL. DISH SHAPED WATERTIGHT INSERT SHALL BE SUPPLIED, TWO PER MANHOLE.
3. SMOOTH CONCRETE CHANNEL WITH DEPTH EQUAL TO 0.80 TIMES THE DIA. OF THE MAIN SEWER FOR SIZES 8" TO 15" AND 0.50 TIMES THE DIA. FOR SIZES 16" AND ABOVE. (USE CLASS C CONCRETE).
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING ADEQUATE BALLAST TO OFFSET FLOATATION FORCES ACTING ON MANHOLES INSTALLED IN WET AREAS. PROVIDE CALCULATIONS WITH SUBMITTAL SIGNED AND SEALED BY N.J.P.E.
5. POLYPROPYLENE RUNGS, WITH GRADE 60 STEEL REINFORCEMENT AND TEETH AND SIDE CLEATS, AS MANUFACTURED BY MA INDUSTRIES. STEEL RUNGS NOT ALLOWED, FOR MANHOLES GREATER THAN 15'-0" DEEP. APPLICANT SHALL CONTACT CCMUA FOR SPECIFIC MANHOLE REQUIREMENTS. ALL OSHA REQUIREMENTS MUST BE MET.
6. ANY MANHOLE REQUIRING LINING SHALL HAVE MANHOLE RUNGS REMOVED AND HAVE A COMPOSITE LADDER INSTALLED.
7. PROVIDE WRAPIDSEAL MANHOLE ENCAPSULATION SYSTEM, AS MANUFACTURED BY CANUSA-CPS, AROUND FRAME AND GRADE RINGS FOR ALL MANHOLES AND AROUND ALL RISER JOINTS. INSTALLATION SHALL BE PROVIDED IN ACCORDANCE WITH ALL OF MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
8. MANHOLE FRAME SHALL BE LAID IN 1-INCH OF MORTAR AND HAVE 1-INCH MORTAR AROUND THE RIM.
9. THERE SHALL BE NO CHANGE IN FLOW DIRECTION GREATER THAN 90 DEGREES.
10. THE FLEXIBLE CONNECTIONS SHALL BE A-LOK FLEXIBLE CONNECTOR BY A-LOK PRODUCTS, OR APPROVED EQUAL, DESIGNED TO MEET THE REQUIREMENTS OF ASTM C-1478, "STORM DRAIN RESILIENT CONNECTORS BETWEEN REINFORCED CONCRETE STORM SEWER STRUCTURES, PIPES, AND LATERALS."

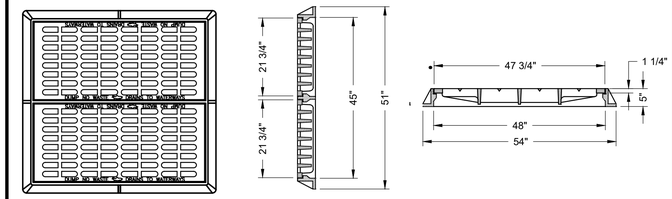
1 48" DIA. STORM MANHOLE
NOT TO SCALE



NOTES:

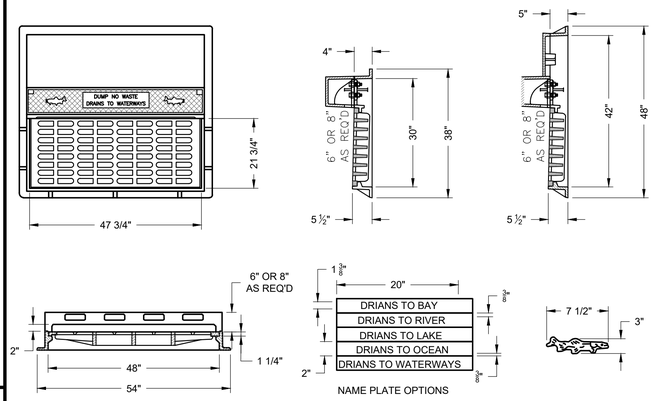
1. DRAIN BASIN AS MANUFACTURED BY NYLOPLAST, OR APPROVED EQUIVALENT.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

2 NYLOPLAST AREA DRAIN BASIN DETAIL
NOT TO SCALE



PATTERN No. 3425 AS MANUFACTURED BY CAMPBELL BRIDGESTATE FOUNDRY COMPANY (ECO GRATE)

3 NJDOT TYPE "E" BICYCLE SAFE INLET GRATE DETAIL
NOT TO SCALE



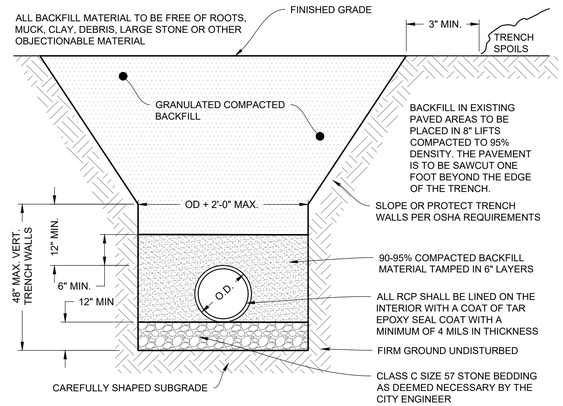
NAME PLATE OPTIONS

3D BROOK TROUT DESIGN

NOTES:

1. MATERIAL: GRAY CAST IRON ASTM A48-83, CLASS JOB.
2. AASHTO HS20-44 HIGHWAY LOADING.
3. SUPPLIED WITHOUT SURFACE COATING.
4. GRATE TO BE BRIDGESTATE FOUNDRY CORPORATION #2618 ORAPPROVED EQUAL.

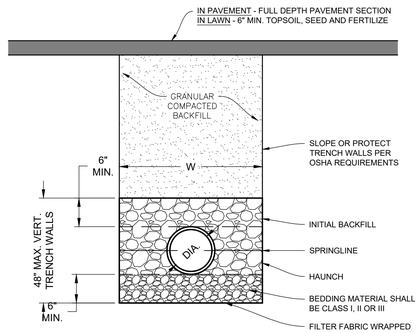
4 TYPE 'B' BICYCLE SAFE GRATE & TYPE 'N-ECO' CURB PIECE
NOT TO SCALE



NOTES:

1. TRENCHING OPERATIONS SHALL CONFORM TO ALL OSHA REQUIREMENTS.
2. IF THE PIPE DIAMETER EXCEEDS 48", THE MINIMUM 12" COVER SHALL STILL APPLY.
3. THIS TRENCH IS SUITABLE FOR USE UNDER WET OR UNSTABLE SOIL CONDITIONS.
4. ALL CONCRETE PIPE SHALL BE CLASS III, UNLESS OTHERWISE NOTED.

5 CONCRETE PIPE TRENCH
NOT TO SCALE

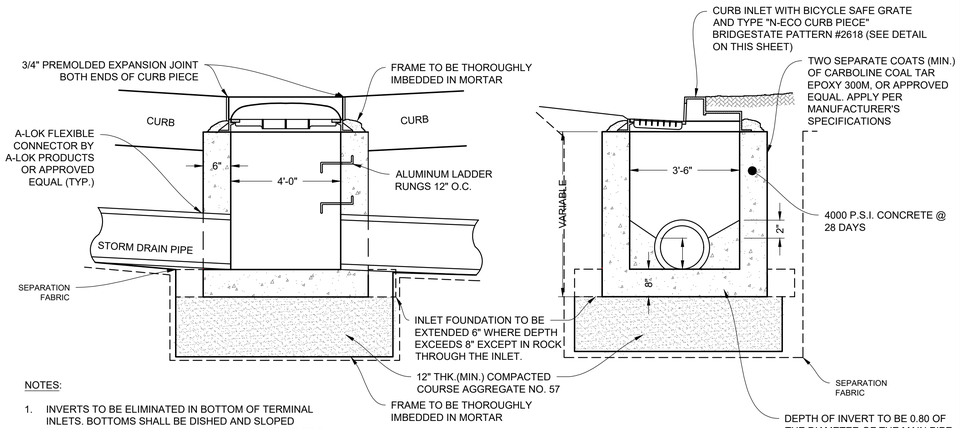


RECOMMENDED MIN. TRENCH WIDTHS	
PIPE DIAMETER (DIA.)	MIN. TRENCH WIDTH (W)
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56'
36'	64"
42"	72"
48"	80"
54"	88"
60"	96"

NOTES:

1. TRENCHING OPERATIONS SHALL CONFORM TO ALL OSHA REQUIREMENTS IF THE PIPE DIAMETER EXCEEDS 48", THE MINIMUM 12" COVER SHALL STILL APPLY. THIS TRENCH IS SUITABLE FOR USE UNDER WET OR UNSTABLE SOIL CONDITIONS.
2. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF ASTM D2321 AND PER MANUFACTURER'S SPECIFICATIONS.
3. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
4. WHERE THE TRENCH BOTTOM IS DETERMINED TO BE UNSUITABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER.
5. INITIAL BACKFILL SHALL BE SUITABLE MATERIAL CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE.
6. MINIMUM COVER, IN NON-TRAFFIC APPLICATIONS (GRASS AND LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE UNLESS OTHERWISE NOTED. FOR TRAFFIC APPLICATIONS, MINIMUM COVER IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF THE PIPE TO TOP OF PAVEMENT.

6 TYPICAL HDPE PIPE TRENCHING DETAIL
NOT TO SCALE



NOTES:

1. INVERTS TO BE ELIMINATED IN BOTTOM OF TERMINAL INLETS. BOTTOMS SHALL BE DISHED AND SLOPED TOWARDS THE OUTLET PIPE AT A RATE OF GRADE OF 2 INCHES PER FOOT.
2. ALL INLETS TO BE PROVIDED WITH A 6" CURB PIECE.
3. COATING PER CITY ORDINANCE

7 TYPE "B" INLET DETAIL
NOT TO SCALE

NOTE: ALL SITE WORK CONSTRUCTION AND DETAILS MUST CONFORM TO THE STANDARDS OF THE CITY OF CAMDEN SEPARATION FABRIC MUST BE INSTALLED ON ANY EXISTING SUBGRADE SURFACE PRIOR TO INSTALLING ANY NEW APPROVED MATERIAL

NOT FOR CONSTRUCTION

Pennoni
NJ COA GA28033300
PENNONI ASSOCIATES INC.
2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8600 F 856.668.8610

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING
BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

DRAINAGE DETAILS I

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	DATE	REVISIONS	BY

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PROJECT	USATX24001
DATE	APRIL 22, 2026
DRAWING SCALE	N.T.S.
DRAWN BY	EAB
APPROVED BY	JJR

CS6021

SHEET 15 OF 22

U:\Accounts\USA\TX\USATX24001 - Holtec Warehouse\DESIGN_SHEETS\CS6021.dwg PLOTTED: 4/21/2026 8:47 AM BY: Eduardo Beltran PLOTSTYLE: Pennoni NCS.ctb

THE ECOSTREAM BIOFILTER™ IS A BIOFILTRATION STORMWATER TREATMENT TECHONOLOGY THAT RELIES ON PHYSICAL, CHEMICAL AND BIOLOGICAL MECHANISMS TO REMOVE TOTAL SUSPENDED SOLIDS, TOTAL PHOSPHORUS, TOTAL NITROGEN, HEAVY METALS, OIL AND GREASE, TRASH AND BACTERIA.

Model	Vault Size (ft)	Media Filtration Area (sf)	Min Inlet to Outlet Depth[1] (in)	Overflow to Outlet Depth (in)	Design Treatment Rate (cfs)	Bypass Standpipe (in)	Solid Lid Size & Number
ES16B	4 x 4	16	32	32	0.147	6	36 in (1x)
ES24B	4 x 6	24	32	32	0.221	6	36 in (1x)
ES32B	4 x 8	32	32	32	0.294	6	36 in (1x)
ES36B	6 x 6	36	32	32	0.331	6	36 in (1x)
ES40B	4 x 10	40	32	32	0.368	6	36 in (2x)
ES48B	4 x 12	48	32	32	0.441	6	36 in (2x)
ES48B	6 x 8	48	32	32	0.441	6	36 in (1x)
ES60B	6 x 10	60	32	32	0.551	8	36 in (1x)
ES72B	6 x 12	72	32	32	0.662	8	36 in (2x)
ES80B	8 x 10	80	32	32	0.735	8	36 in (1x)
ES96B	8 x 12	96	32	32	0.882	10	36 in (2x)
ES112B	8 x 14	112	32	32	1.029	10	36 in (2x)
ES128B	8 x 16	128	32	32	1.176	10	36 in (2x)

[1] A min drop of 29" can be used however the design engineer must review the 3" tailwater (up to the beehive bypass) on the inlet pipe to ensure it does not affect the project's overall design.

NOTES:

- UNDERDRAIN SHOWN IS SCHEMATIC ONLY. FOR DETAILS ON UNDERDRAIN SIZING AND LAYOUT SEE ECOSTREAM INSTALLATION GUIDE FOR DETAILS, KIT NUMBER AND PLACEMENT OPTIONS.

ADS ECOSTREAM SPECIFICATIONS

PRODUCTS

A. INTERNAL COMPONENTS: SHALL BE SUBSTANTIALLY CONSTRUCTED OF RECYCLED POLYETHYLENE OR OTHER THERMOPLASTIC MATERIAL APPROVED BY THE MANUFACTURER

B. FILTER MEDIA: FILTER MEDIA SHALL BE BY ADS AND SHALL CONSIST OF A PROPRIETARY BLEND OF FILTER MEDIA.

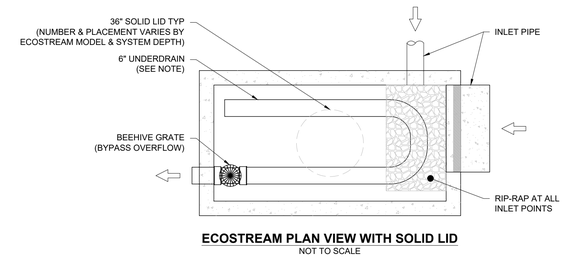
C. PRECAST CONCRETE VAULT: DESIGNED FOR H-20 TRAFFIC LOADING AND APPLICABLE SOIL LOADS OR AS OTHERWISE DETERMINED BY A LICENSED PROFESSIONAL ENGINEER. THE MATERIALS AND STRUCTURAL DESIGN OF THE DEVICES SHALL BE PER ASTM C478, ASTM C857 AND ASTM C858.

PERFORMANCE

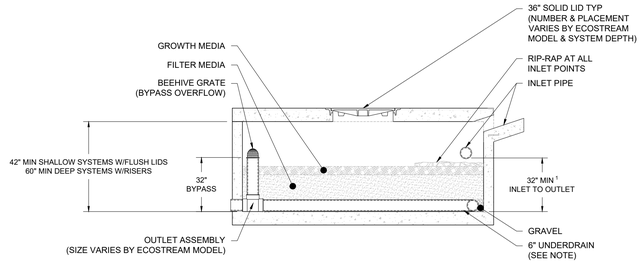
A. THE STORMWATER FILTER SYSTEM SHALL BE AN ONLINE OR OFFLINE DESIGN BASED ON LOCAL REQUIREMENTS CAPABLE OF TREATING 100% OF THE REQUIRED TREATMENT FLOW AT FULL SEDIMENT LOAD CONDITIONS.
B. THE STORMWATER FILTER SYSTEM SHALL HAVE NO MOVING PARTS.
C. THE STORMWATER TREATMENT UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 80% OF SUSPENDED SOLIDS.

ECOSTREAM INSTALLATION NOTES

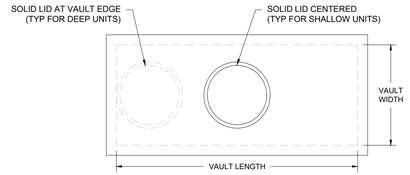
INSTALLATION OF THE STORMWATER TREATMENT UNIT(S) SHALL BE PERFORMED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH INSTRUCTIONS CAN BE OBTAINED BY CALLING ADVANCED DRAINAGE SYSTEMS AT (800) 821-6710 OR BY LOGGING ON TO WWW.ADSPIPE.COM.



ECOSTREAM PLAN VIEW WITH SOLID LID
NOT TO SCALE



ECOSTREAM PROFILE VIEW WITH SOLID LID
NOT TO SCALE



SOLID LID PLACEMENT
SIZE AND NUMBER OF SOLID LIDS VARY BY ECOSTREAM MODEL & SYSTEM DEPTH

ECOSTREAM BIOFILTER
SOLID LID INSTALLATION
BASIC MEDIA

DATE: 09/04/24 | DRAWN: JLM
DRAWING #: 570-020 | CHECKED: SMW

DATE	DWN	CHK
8/14/2025	JLM	AT

EcoStream™ Biofilter
Stormwater Media Filters

4640 TRUEMAN BLVD.
HILLIARD, OH 43026

ADS

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS/CONTECH UNDER THE DIRECTION OF THE PROJECT'S ENGINEER OF RECORD (EOR) FOR OTHER PROJECT REPRESENTATIVE. THIS DRAWING IS NOT INTENDED FOR USE IN BIDDING OR CONSTRUCTION WITHOUT THE EOR'S PRIOR APPROVAL. EOR SHALL REVIEW THIS DRAWING PRIOR TO BIDDING AND/OR CONSTRUCTION AND IS THE ULTIMATE RESPONSIBILITY OF THE EOR TO ENSURE THAT THE PRODUCTS DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

SHEET 1 OF 1

1 PRE MANUFACTURED TREATMENT DETAIL
NOT TO SCALE

ES-WD-DeadLevel-D

Engineering Specification

Job Name _____ Contractor _____
Job Location _____ Approval _____
Engineer _____ Contractor's P.O. No. _____
Approval _____ Representative _____

Dead Level® D

Pre-Sloped Polypropylene Trench Drain System with Ductile Iron

Specification

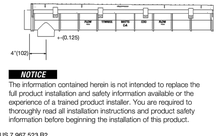
Watts Dead Level® D Pre-Sloped Trench Drain System with 6" wide x 45° long (standard) ductile iron frame, UV stabilized talc-filled polypropylene channels with integral 4" No hub bottom or end outlet(s). System shall be frame-anchored, with (specify) grating to suit DIN Class (specify) load rating. System to include frame connectors, grate lockdowns, and construction covers. Installation to be performed in accordance with manufacturer's installation instructions.

Call customer service if you need assistance with technical details.



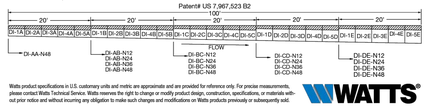
Options		
Suffix	Description	
-B6	6" x 24" x 24" Catch Basin	☐
-B6T	6" x 24" x 24" Catch Basin w/Trash Basket	☐
-B24	24" x 24" x 24" Catch Basin (DI Grate Only)	☐
-B24T	24" x 24" x 24" Catch Basin w/Trash Basket (DI Grate Only)	☐
-FB	Bronze Frame Guard	☐
-FG	Galvanized Steel Frame Guard	☐
-FS	Stainless Steel Frame Guard	☐
-OS	Outlet Strainer	☐
-HP	Vandal Proof Grate Lockdowns	☒

Grate Options		
Suffix	Description	
-SK	Stainless Steel Brickslot	☐
-BR	Decorative Bronze	☒
-DI	Ductile Iron	☒
-DI-ADA	Ductile Iron ADA	☐
-GDI	Galvanized Ductile Iron	☐
-PP	Polypropylene	☐
-GP	Galvanized Perforated	☐
-SS	Galvanized Slotted	☐
-RGP	Reinforced Galvanized Perforated	☐
-RGS	Reinforced Galvanized Slotted	☐
-SP	Stainless Steel Perforated	☐
-SS	Stainless Steel Slotted	☐
-RSP	Reinforced Stainless Steel Perforated	☐
-RSS	Reinforced Stainless Steel Slotted	☐
-SCI	Solid Cast Iron	☐



NOTICE
The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Patent# US 7,967,523 B2



Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

WATTS®

Load Classifications

DIN 19580 / EN 1433 Load Classifications

Load Class	Description	Load Class	Description
A	Pedestrian areas, pavements, bicycle lanes, square, yard improvements, individual construction	D	Fuel filling stations, car washes, industrial areas, transport terminals, roads and automobile enterprises.
B	Individual construction, private garages, gardens and parks, artificial landscape, private car parks.	E	Airports, highways, industrial companies, ports, fuel filling stations, transport terminals and storage terminals.
C	Pedestrian areas, waysides, parking areas, garages, car service stations, territory improvements.	F	Airport runways, industrial areas, transport terminals, structures with extreme loads on the road surface.

Dead Level P - Polypropylene Frame 6" Wide								
Grating	Grating	Std.	DIN	ANSI	H-20	ADA	Heel	Open
Suffix	Desc.	Length	Class	Class	Compliant	Compliant	Proof	Area
BK	Stainless Steel Brickslot	48"	D	HD	N	Y	N	N/A
BR	Decorative Bronze	24"	B	MD	N	Y	Y	30%
DI	Ductile Iron	24"	C*	HD*	N	N	N	30%
DI-ADA	Ductile Iron ADA	24"	C*	HD*	N	Y	Y	25%
GDI	Galvanized Ductile Iron	24"	C*	HD*	N	N	N	30%
PP	Polypropylene	24"	C	LD	N	Y	Y	15%
GP	Galvanized Perforated	48"	A	LD	N	Y	Y	15%
GS	Galvanized Slotted	48"	A	LD	N	Y	N	12%
RGP	Reinforced Galvanized Perforated	48"	C*	HD*	N	Y	Y	15%
RGS	Reinforced Galvanized Slotted	48"	C*	HD*	N	Y	Y	30%
SP	Stainless Steel Perforated	48"	A	LD	N	Y	Y	15%
SS	Stainless Steel Slotted	48"	A	LD	N	Y	Y	12%
RSP	Reinforced Stainless Steel Perforated	48"	C*	HD*	N	Y	Y	15%
RSS	Reinforced Stainless Steel Slotted	48"	C*	HD*	N	Y	Y	30%
SCI	Solid Cast Iron	24"	C*	HD*	N	Y	Y	0%

*Load Class E / ANSI Class XHD with Frame Guards

Dead Level D - Ductile Iron Frame 6" Wide								
BK	Stainless Steel Brickslot	48"	D	HD	Y			
BR	Decorative Bronze	24"	B	MD	N	Y	Y	30%
DI	Ductile Iron	24"	F	SD	Y	N	N	30%
DI-ADA	Ductile Iron ADA	24"	F	SD	Y	Y	Y	25%
GDI	Galvanized Ductile Iron	24"	F	SD	Y	N	N	30%
PP	Polypropylene	24"	C	LD	N	Y	Y	15%
GP	Galvanized Perforated	48"	A	LD	N	Y	Y	15%
GS	Galvanized Slotted	48"	A	LD	N	Y	N	12%
RGP	Reinforced Galvanized Perforated	48"	E	XHD	Y	Y	Y	15%
RGS	Reinforced Galvanized Slotted	48"	E	XHD	Y	Y	Y	30%
SP	Stainless Steel Perforated	48"	A	LD	N	Y	Y	15%
SS	Stainless Steel Slotted	48"	A	LD	N	Y	N	12%
RSP	Reinforced Stainless Steel Perforated	48"	E	SD	Y	Y	Y	15%
RSS	Reinforced Stainless Steel Slotted	48"	E	SD	Y	Y	Y	30%
SCI	Solid Cast Iron	24"	F	SD	Y	Y	Y	0%
Dead Level DX - Ductile Iron Frame 12" Wide								
DI	Ductile Iron	24"	F	SD	Y	N	N	40%
DI-ADA	Ductile Iron ADA	24"	F	SD	Y	Y	Y	30%
GDI	Galvanized Ductile Iron	24"	F	SD	Y	N	N	40%
RGP	Reinforced Galvanized Perforated	24"	E	XHD	Y	Y	Y	15%
RGS	Reinforced Galvanized Slotted	24"	E	XHD	Y	Y	Y	30%
RSP	Reinforced Stainless Steel Perforated	24"	E	SD	Y	Y	Y	15%
RSS	Reinforced Stainless Steel Slotted	24"	E	SD	Y	Y	Y	30%
SCI	Solid Cast Iron	24"	F	SD	Y	Y	Y	0%

5

2 TRENCH DRAIN DETAIL
NOT TO SCALE

NOTE: ALL SITE WORK CONSTRUCTION AND DETAILS MUST CONFORM TO THE STANDARDS OF THE CITY OF CAMDEN SEPARATION FABRIC MUST BE INSTALLED ON ANY EXISTING SUBGRADE SURFACE PRIOR TO INSTALLING ANY NEW APPROVED MATERIAL

NOT FOR CONSTRUCTION

Pennoni
NJ COA GA28033300
PENNONI ASSOCIATES INC.
2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8600 F 856.668.8610

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING
BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

DRAINAGE DETAILS

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	DATE	REVISIONS	BY

ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES, AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

PROJECT	USATX24001
DATE	APRIL 22, 2026
DRAWING SCALE	N.T.S.
DRAWN BY	EAB
APPROVED BY	JJR

CS6022

SHEET 16 OF 22

U:\Accounts\USATX\USATX24001 - Holtec Warehouse\DESIGN_SHEETS\CS6022.dwg PLOTTED: 4/21/2026 10:40 AM BY: Eduardo Beltran PLOTSTYLE: Pennoni MCS.ctb

1. ALL PROPOSED PLANT MATERIAL NOT SURVIVING FOR A PERIOD OF TWO (2) YEARS FROM THE DATE OF FINAL INSPECTION SHALL BE REPLACE WITH THE EQUIVALENT SIZE AND SPECIE AND AT NO ADDITIONAL COST TO THE OWNER, MAINTENANCE SHALL BE PERFORMED TO INSURE THE PROPOSED PLANTS HAVE A HEALTHY/VIGOROUS GROWTH PERIOD. IF THE PROPOSED PLANT HAS A BROKEN AND/OR DAMAGE LEADER WILL CONSTITUTE EITHER A FULL REPLACEMENT OF THE TREE OR GIVEN AN EXTENDED ONE (1) YEAR GUARANTEE PENDING ON THE CITY'S REPRESENTATIVES DECISION. ANY PROPOSED PLANT THAT IS 25% DEAD OR MORE SHALL BE REPLACED IF THE TWO (2) YEAR MAINTENANCE PERIOD AND GIVEN AN EXTENDED TIME PERIOD OF ANOTHER TWO (2) YEAR MAINTENANCE PERIOD.WHERE IT IS NECESSARY TO REPLACE PLANT MATERIAL, THE LANDSCAPE ARCHITECT/ENGINEER OR OWNER SHALL INFORM THE CONTRACTOR THEREOF BEFORE SUCH REPLACEMENTS MADE. THE CONTRACTOR SHALL PERIODICALLY VISIT THE SITE AT HIS DISCRETION DURING THE TWO YEAR GUARANTEE PERIOD AND ADVISE THE OWNER, IN WRITING, OF ANY CONDITIONS WHICH APPEAR TO IMPACT. THE CONTRACTOR SHALL MAINTAIN ALL PLANTING BY WATERING, FERTILIZING. DISEASE CONTROL. PRUNING, WEEDING, ETC. SO AS TO KEEP THE COMPLETED WORK AND/OR INCOMPLETE WORK IN A CLEAN AND NEAT CONDITION AT ALL TIMES.

2. THE CONTRACTOR SHALL NOTIFY OWNER AND LANDSCAPE ARCHITECT /ENGINEER UPON COMPLETION OF GUARANTEE PERIOD AND REQUEST A FINAL REVIEW PRIOR TO ACCEPTANCE OF WORK SHOULD ANY PORTION OF THE WORK BE UNACCEPTABLE, CONTRACTOR SHALL MAKE ALL WORK ACCEPTABLE AND REQUEST RE-REVIEW BY OWNER AND LANDSCAPE ARCHITECT/ENGINEER. CONTRACTOR WILL BE NOTIFIED BY LETTER OF ACCEPTANCE WITHIN FIVE (5) DAYS AFTER INSPECTION OR FIVE (5) DAYS AFTER RE-REVIEW SHOULD THE LATTER BE NECESSARY.

3. THE GATOR BAGS ARE TO BE INSTALLED ON EACH NEW TREE AND GUARANTEE FOR ONE YEAR. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO CHECK THE GATOR BAG FOR WATER AND /OR IF PERCOLATION IS OCCURRING AROUND THE TREE. PERCOLATION IS NOT OCCURRING, THEN THE CONTRACTOR IS TO CLEAN THE GATOR BAGS OR REPLACE IT WITH A NEW ONE. IF ANY TREE INSTALLED LOOKS STRESSED OUT AND/OR IS A REPLACEMENT TREE, THE GATOR BAG MUST RECEIVE ANOTHER YEAR FROM THE TIME OF INSTALLATION WITH THE ORIGINAL GUARANTEE STILL IN PLACE ANY GATOR BAGS FOUND DEFICIENT AND/OR LOST/STOLEN MUST BE REPLACED/PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER AND/OR CITY. CONTRACTOR IS TO REMOVE THE GATOR BAGS EVERY SIXTY (60) DAYS AND PLACE BACK ON EVERY SEVEN (7) DAYS. THE CONTRACTOR CAN REMOVE THE GATOR BAGS DURING THE WINTER MONTHS UNLESS THE TEMPERATURE GOES ABOVE 55 DEGREES FAHRENHEIT FOR A PERIOD OF THREE STRAIGHT DAYS OR MORE.

4. ALL DISTURBED AREAS TO BE GRASS ARE TO RECEIVE SCREENED CLEAN TOPSOIL, FINE GRADED, SEEDED, AND MULCHED PRIOR TO INSTALLATION, THE CONTRACTOR. MUST SUBMIT SHOP DRAWINGS FOR BOTH EROSION CONTROL MULCH BLANKET AND SEED MIX TO THE LANDSCAPE ARCHITECT/ENGINEER FOR APPROVAL. REFER TO PROJECT SPECIFICATIONS FOR FURTHER INFORMATION REGARDING EACH ITEM.

5. ALL PLANT LOCATIONS SHALL BE STAKED IN THE FIELD AND LOCATIONS APPROVED BY LANDSCAPE ARCHITECT/OR ENGINEER PRIOR TO PLANTING.

6. TOPSOIL WITH A QUALITY ORGANIC SOIL AMENDMENT SHALL BE USED FOR ALL PLANTING AND SEEDING OPERATIONS.

7. INSTALL 24" MINIMUM TOPSOIL MIXTURE IN THREE BEDS; 12" MINIMUM TOPSOIL MIXTURE IN PERENNIAL, GROUNDCOVER, SHRUB AND EVERGREEN BEDS. 6" OF TOPSOIL MIXTURE ARE TO REMAIN ON ALL DISTURBED AREAS TO RECEIVE SEED.

8. NOTIFY ALL UTILITY COMPANIES AND LOCATE ALL UTILITIES PRIOR TO EXCAVATING PLANT PITS. PLANT LOCATIONS MAY BE ADJUSTED IN THE FIELD TO AVOID INTERFERENCE WITH UNDERGROUND UTILITIES.

9. SHOULD ANY DISCREPANCY ARISE BETWEEN THE PLANTING PLAN AND THE PLANTING SCHEDULE, THE CONTRACTOR IS RESPONSIBLE FOR THE QUANTITIES SHOWN ON THE LANDSCAPE PLAN.

10. ALL PLANT MATERIAL SHALL BE OF NURSERY STOCK QUALITY AS DEFINED BY THE AMERICAN ASSOCIATION OF NURSERYMAN STANDARDS AND SHALL BE FIRST QUALITY NURSERY GROWN STOCK FREE OF DISEASE AND OBJECTIONABLE DISFIGUREMENTS AND PLANTED IN CONFORMANCE WITH SOUND NURSERY PRACTICE AND APPLICABLE CITY STANDARDS.

11. ALL NON-BIODEGRADABLE ROOT WRAPPING TO BE REMOVED COMPLETELY BEFORE PLANTING.

12. ALL TREES SHALL BE BALLED AND BULLAPED, NURSERY GROWN STOCK.

13. ALL PLANT MATERIAL AND LAWNS SHALL BE PLANTED WITHIN THE RECOMMENDED SEASONAL TIME PERIODS AS PRESCRIBED BY ACCEPTED HORTICULTURAL PRACTICE. REFER TO CONSTRUCTION SPECIFICATIONS FOR RECOMMENDED PLANTING TIMES. FALL DIGGING AND TRANSPLANT HAZARD TREE SPECIES (OAKS,ETC.) SHALL ONLY BE DUG AND PLANTED IN SPRING.

14. ALL PLANT MATERIAL SHALL BE APPROVED UPON ARRIVAL TO THE SITE BY LANDSCAPE ARCHITECT OR ENGINEER, UNLESS OTHERWISE NOTIFIED.

15. PROPOSED PLANT MATERIAL MAY BE SUBSTITUTED BY SIMILAR PLANTS PRIOR TO INSTALLATION, SUBJECT TO APPROVAL BY THE ENGINEER.

16. A TEMPORARY FENCE, SUCH AS SNOW FENCE, SHALL BE ERECTED AT THE PERIMETER OF THE DRIPLINE OF ALL EXISTING VEGETATION INDICATED TO REMAIN. PRIOR TO EXCAVATION, CONSTRUCTION OR SITE WORK. THIS FENCE SHALL BE REMOVED ONLY AT THE TIME OF COMPLETION OF ALL CONSTRUCTION AND FINAL GRADING. COST TO BE INCLUDED IN ASSOCIATED BID ITEMS.

17. EXISTING TREES TO BE RELOCATED SHALL BE HANDLED ACCORDING TO ACCEPTABLE HORTICULTURE PRACTICE.

18. ALL DISTURBED AREAS NOT SHOWN AS PLANTED OR LAWN SHALL BE TOPSOILED AND SEEDED OR RETURNED TO THEIR ORIGINAL STATE BEFORE DISTURBANCE AS DIRECTED BY THE ENGINEER.

19. ALL AREAS NOT RELATED TO THE PROPOSED DEVELOPMENT SHALL REMAIN IN THEIR NATURAL STATE. DISTURBANCE OF EXISTING VEGETATION SHALL BE LIMITED TO WORK AREA AND AS DEFINED ON DWGS.

20. ADDITIONAL LANDSCAPING APPROVED BY THE ENGINEER SHALL BE PROVIDED BY THE APPLICANT TO REPLACE ANY VEGETATION IN ADVERTENTLY REMOVED OUTSIDE THE LIMIT OF DISTURBANCE LINE AS SHOWN ON THE APPROVED GRADING PLAN DURING CONSTRUCTION.

21. PROPOSED TREES SHALL NOT BE PLANTED WITHIN EASEMENTS, DRIVEWAYS AND SITE TRIANGLES. THEREFORE, THE TREE LOCATIONS SHALL BE APPROXIMATE AND SHALL BE ADJUSTED IN THE FIELD AS REQUIRED.

22. ALL SHADE TREES IN PEDESTRIAN WALKS AREAS SHALL HAVE AN INITIAL LIMBS PRUNED STARTING AT A MINIMUM OF 7 FT. ABOVE FINISHED GRADE.

23. MULCH THICKNESS MUST BE SHREDDED HARDWOOD BARK AND TO FOLLOW VARIOUS PLANTING DETAILS ON SHEET CS6061. NO DYE MULCH IS ACCEPTABLE. SEE CONSTRUCTION SPECIFICATIONS FOR ADDITIONAL INFORMATION.

24. PLANTS ARRANGED IN CONTINUOUS GROUPINGS SHALL BE SET IN MULCHED BEDS. THIS INCLUDES ANY PLANTS SPACED 7 FT O.C. OR CLOSER. ANY STREET TREES MUST FOLLOW TREE PIT DETAIL FOR STREET TREE PIT REQUIREMENTS.

25. ALL PLANTING DEBRIS SHALL BE REMOVED FROM THE PROPERTY.

26. ANY LIVE TREE WHICH IS SUBSTANTIALLY DAMAGED AS A RESULT OF GRADING OR GENERAL CONSTRUCTION MUST BE REMOVED AND REPLACED WITH ANOTHER TREE OR TREES AS APPROVED BY THE ENGINEER.

27. TREE REMOVAL FROM ANY SLOPE OR ENVIRONMENTALLY SENSITIVE AREA IS PROHIBITED IF IT WILL CONTRIBUTE, IN THE OPINION OF THE ENGINEER, TO EXTRA RUNOFF OF SURFACE WATER ONTO ADJOINING PROPERTY AND EROSION AND SILTING, UNLESS OTHER MEANS APPROVED BY THE ENGINEER ARE PROVIDED TO PREVENT RUNOFF AND EROSION.

28. NO HEALTHY TREE THAT IS SPECIAL BY VIRTUE OF HISTORY, UNUSUAL SIZE, OR AGE OR OF RARE SPECIES, SHALL BE REMOVED EXCEPT AS MAY BE REQUIRED FOR PROTECTION OF PUBLIC HEALTH, SAFETY AND WELFARE.

29. SELECTED EXISTING HEALTHY TREES SIX (6) INCHES IN CALIPER OR LESS MEASURED FOUR (4) FEET ABOVE THE GROUND SHALL BE RELOCATED ON-SITE UNDER THE DIRECTION AND APPROVAL OF THE ENGINEER.

30. NEWLY INSTALLED PLANT MATERIAL SHALL BE WATERED AT THE TIME OF PLANTING. REGULAR WATERING SHALL BE PROVIDED TO ENSURE THE ESTABLISHMENT AND REGULAR GROWTH OF PLANTS. CONTRACTOR TO REFER TO CONSTRUCTION SPECIFICATIONS.

31. SEED ALL DISTURBED AREAS WITH REQUIRED SEED MIX (CONTRACTOR TO REFER TO CONSTRUCTION SPECIFICATIONS).

32. TREES SHOULD BE PLANTED A MIN. OF FIVE (5) FEET FROM SIDEWALKS UNLESS IN TREE PITS.

33. GUY WIRES AND STAKES WILL ONLY BE UTILIZED IF CONDITIONS MERIT AND WILL BE REMOVED BY THE CONTRACTOR AT THE END OF THE GUARANTEE PERIOD.

34. CONTRACTOR MUST REVIEW CONSTRUCTION SPECIFICATIONS FOR ADDITIONAL INFORMATION ON PLANTING PLANTS.

THE OWNERS OF THE COMPANY AND THEIR AGENTS OR ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, PRESERVATION AND MAINTENANCE OF ALL PLANTING AND PHYSICAL FEATURES SHOWN ON THE PLANS. ANY AND ALL PLANT MATERIAL THAT DIES OR FAILS TO THRIVE SHALL BE IMMEDIATELY REPLACED WITH LIKE SPECIES. THE OWNERS SHALL BE RESPONSIBLE FOR ANNUAL MAINTENANCE OF SITE VEGETATION TO INCLUDE BUT NOT BE LIMITED TO:

1. FERTILIZER: MOW LAWN - FERTILIZE TWICE PER YEAR.
   MEADOW - DO NOT FERTILIZE THE AREAS
   RAIN GARDEN - DO NOT FERTILIZE THE AREAS

2. PRUNING: PRUNING SHALL BE LIMITED OR REMOVAL OF DEAD WOOD OR BRANCHES FOR TREES OR FOR SIGHT DIFFERENCES/SAFETY REASONS. PRUNING OF SHRUBS AND TREES SHALL BE LIMITED TO THE PRUNING NECESSARY TO MAINTAIN THE NATURAL SHAPE OF THE PLANT EXCEPT FOR SHEARED HEDGES.

3. PEST CONTROL: PRE-EMERGENT WEED CONTROL FOR MOWN LAWNS AND SHRUB BEDS MAY BE APPLIED IN FEBRUARY. CHEMICAL TREATMENT FOR INSECT INFESTATION AND DISEASE MAY BE APPLIED AND SHALL BE SPECIFIC TO THE PROBLEM.

4. MULCHING: MULCHING SHALL BE MAINTAINED AT A DEPTH OF 3"IN PLANT BEDS AND AROUND BASE OF TREES.

5. MOWING: MOWN LAWN SEED MIX SHALL BE MOWN AT REGULAR INTERVALS THROUGHOUT THE GROWING SEASON. GRASS HEIGHT SHOULD NOT EXCEED 3 INCHES. MOWER BLADES SHALL BE SET AT 2–1/2 INCHES UNLESS OTHERWISE DIRECTED.
   MEADOW SEED MIX AREAS FIRST YEAR MAINTENANCE CONSISTS OF OBSERVATION OF THE DESIRED SPECIES GROWTH AND WEED COMPETITION WHEN MAKING MAINTENANCE DECISIONS. WHEN UNDESIRABLE VEGETATION REACHES 12"–18" TALL, MOW TO NO LESS THAN 6" HIGH (WITH A MOWER OR WEED EATER) TO PREVENT THE WEEDS FROM DEVELOPING SEED. GENERALLY, NATIVE PLANTS WILL GROW MORE EXTENSIVE ROOT SYSTEMS THAN TOPS IN THE FIRST YEAR; THEREFORE, MOWING TO 6"–8" HIGH WILL NOT CAUSE HARM. THIS PRACTICE ALLOWS SUNLIGHT TO REACH DESIRED SPECIES. DO NOT MOW WITH A LAWN MOWER, AS MOWING TOO CLOSE ENCOURAGES WEEDY GRASS SPECIES. PROVIDE IRRIGATION DURING PERIODS OF DRY WEATHER IS NEEDED FOR PROPER GERMINATION. MAINTAIN 1" OF WATER PER WEEK THROUGHOUT THE GROWING SEASON. SECOND YEAR MAINTENANCE OF THESE AREAS CONSISTS OF REMOVING UNDESIRED VEGETATION AND MOWING ONCE, CLOSE TO THE GROUND, IN EARLY SPRING. THIS ALLOWS YOUNG NATIVE PLANTS TO EMERGE AND RAPID WARMING OF THE SOIL. YEAR THREE AND BEYOND FOR THE AREAS, CONSISTS OF REMOVING UNDESIRABLE VEGETATION AND PREVENTING A BUILD–UP OF DEAD VEGETATION KNOWN AS "THATCH". THATCH WILL KEEP THE MEADOW AREAS FROM BEING HEALTHY AND DIVERSE. DEPENDING ON THE RATE OF THATCH BUILD–UP, MOW TO THE GROUND AND RAKE OFF THE RESIDUAL VEGETATION BEFORE SPRING GREEN–UP (APRIL), EVERY THREE TO FIVE YEARS.

6. PLANT PROTECTION: AVOID EXCESS INTRUSION INTO THE ROOT ZONE AREA OF ESTABLISHED PLANTINGS.

7. WATERING: UNLESS STATED OTHERWISE IN THESE DOCUMENTS, PROVIDE APPROXIMATELY 1–INCH OF RAINFALL/WATER PER WEEK THROUGHOUT THE GROWING SEASON FOR THE FIRST YEAR.

SEEDING NOTES:

1. SEED ALL AREAS DISTURBED BY CONSTRUCTION NOT OTHERWISE CONTAINING PLANTING BEDS, SIDEWALKS, BUILDINGS, ETC.

2. BEFORE SEEDING, CONTRACTOR SHALL PROVIDE SOIL TESTS AND INCORPORATE NECESSARY SOIL AMENDMENTS PER SOIL TEST RECOMMENDATIONS.

3. PERFORM ALL FINISH GRADING, WITHIN AREAS OF DISTURBANCE, NECESSARY TO BRING SITE TO REQUIRED FINISHED ELEVATIONS. FINISH GRADING SHALL CONSIST OF PREPARING SUBGRADE AND SPREADING TOPSOIL READY FOR SEEDING OPERATIONS.

4. TOPSOIL SHALL BE UNIFORMLY SPREAD IN DISTURBED AREAS WITH BLADE GRADER, OR BY ANY OTHER APPROVED METHOD, TO A MINIMUM DEPTH OF 6 INCHES TO PERMIT 1 INCH OF SETTLEMENT. CORRECT ANY SURFACE IRREGULARITIES TO PREVENT FORMATION OF LOW SPOTS AND POCKETS THAT WOULD RETAIN WATER. PRIOR TO FINE GRADING, REMOVE ALL EXISTING ANNUAL TYPE VEGETATION.

5. SOW SEED AT THE RECOMMENDED SEEDING RATE AS SHOWN IN THE SEEDING MIX SCHEDULE.

6. SEED SHALL BE APPLIED APRIL 15TH THRU MAY 31ST OR AUGUST 17TH THRU OCTOBER 15TH.

7. AFTER SEEDING APPLICATION, WOOD CELLULOSE FIBER SHALL BE APPLIED HYDRAULICALLY AT A NET RATE DRY WEIGHT OF 1,500 LBS PER ACRE OR AT RATES RECOMMENDED BY THE MANUFACTURER. MULCH ALL SEEDED AREAS WITH CLEAN STRAW.

8. ON ALL SLOPES 3:1 OR GREATER, USE AN ORGANIC SOIL STABILIZER SUCH AS 'CON-TACK' OR EQUAL AT THE RATE OF 25 LBS PER 1,000 GALLONS OR AT RATES RECOMMENDED BY THE MANUFACTURER.

9. KEEP NEWLY SEEDED GRASS AREAS MOISTENED DURING SEED GERMINATION AND UNTIL THE GRASS COVERS AT LEAST 75% OF THE SEEDED AREAS TO A HEIGHT OF 2 TO 3 INCHES.

10. ALL AREAS AND SPOTS, WHICH DO NOT SHOW A PROMPT CATCH OF GRASS, SHALL THEN BE RE-SEEDED, AND THE OPERATION REPEATED UNTIL COMPLETE COVERAGE IS OBTAINED.

NOT FOR CONSTRUCTION

Pennoni
NJ COA GA28033300
PENNONI ASSOCIATES INC.
2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8600 F 856.668.8610

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING
BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

LANDSCAPE NOTES

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	DATE	REVISIONS	BY

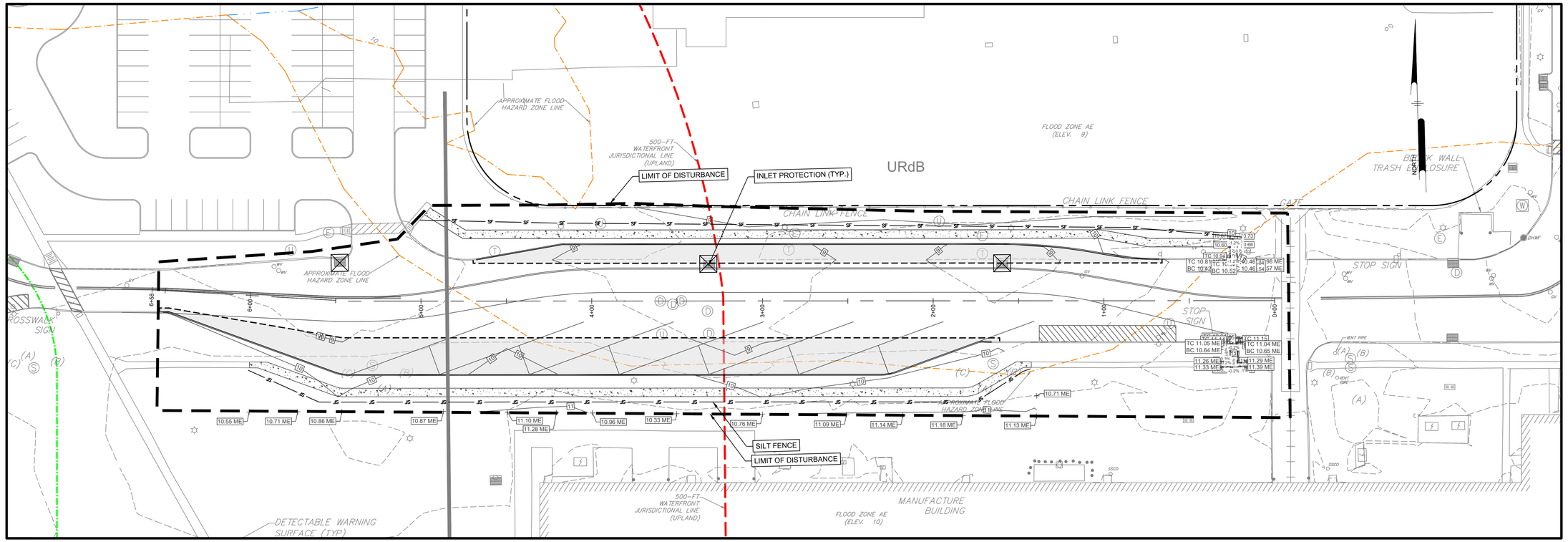
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PROJECT	USATX24001
DATE	APRIL 22, 2026
DRAWING SCALE	N.T.S.
DRAWN BY	EAB
APPROVED BY	JJR

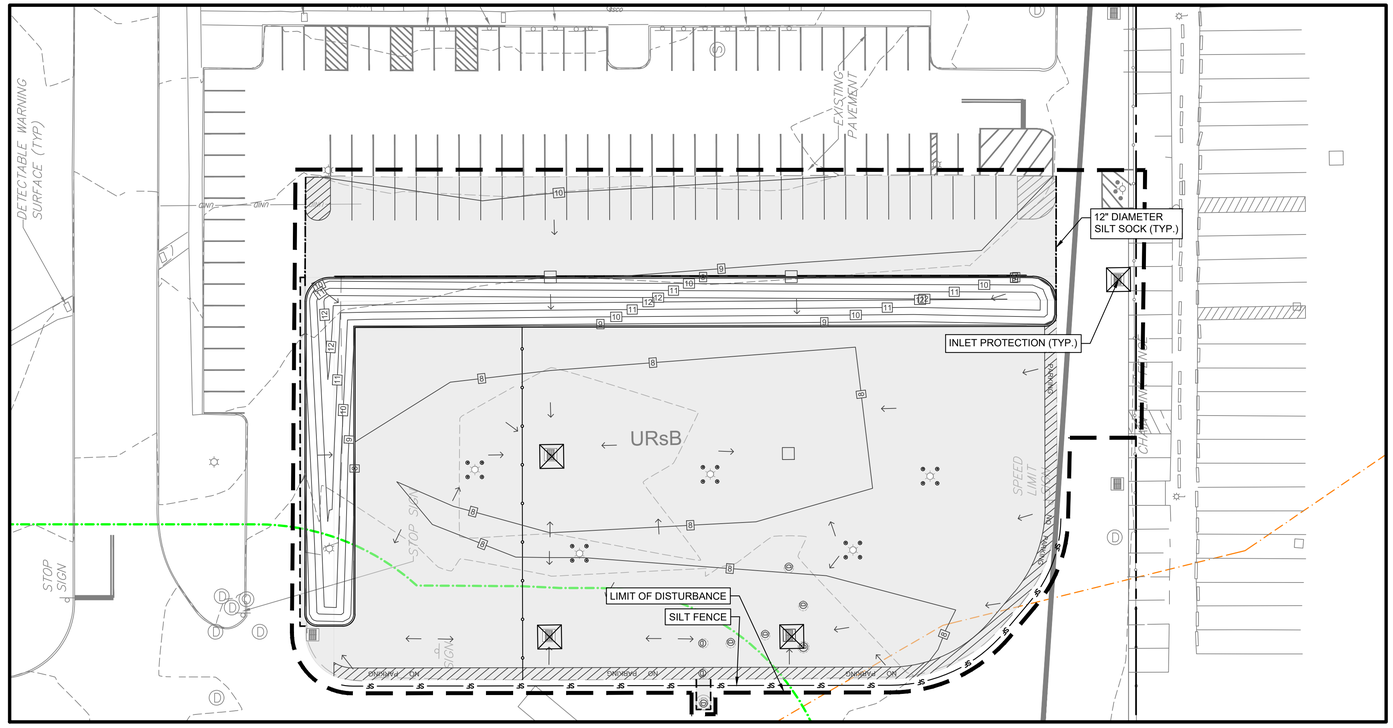
CS6061

SHEET 17 OF 22

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DRIVEWAY WIDENING (SEE SHT. CS0400 FOR LOCATION)
SCALE: 1"=30'



PARKING LOT EXPANSION (SEE SHT. CS0400 FOR LOCATION)
SCALE: 1"=30'

NORTH

SOIL EROSION CONTROL LEGEND:

- INLET PROTECTION
- SF — SILT FENCE
- URsB — SOIL TYPE
- SOIL TYPE BOUNDARY LINE
- SILT SOCK
- LIMIT OF DISTURBANCE

0 30' 60'

NOT FOR CONSTRUCTION

Pennoni
NJ COA GA28033300
PENNONI ASSOCIATES INC.
2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8600 F 856.668.8610

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING
BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

SOIL EROSION AND SEDIMENT CONTROL
PLAN I

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	DATE	REVISIONS	BY

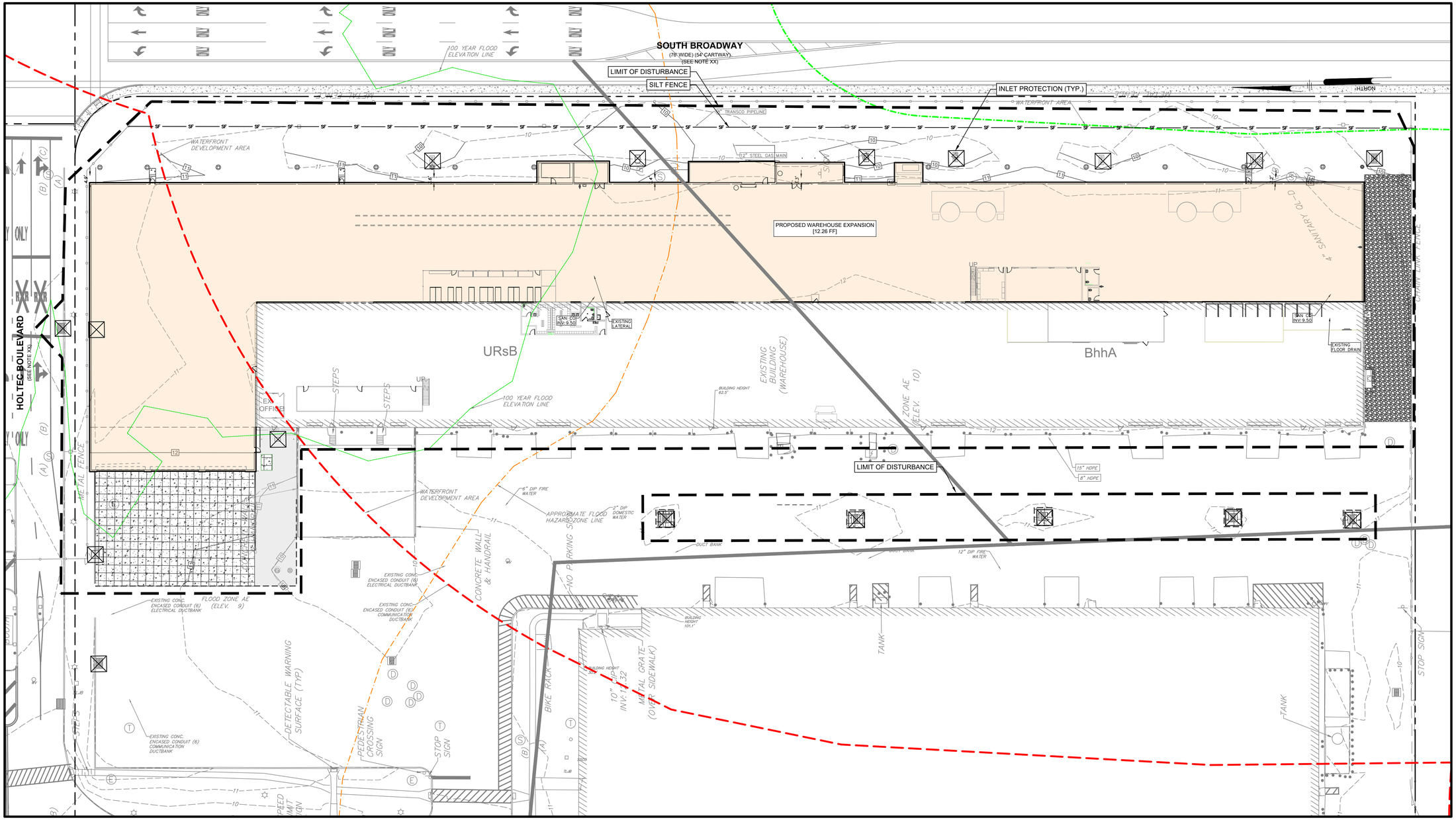
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DRAWING SCALE	1"=30'
DRAWN BY	EAB
APPROVED BY	JJR

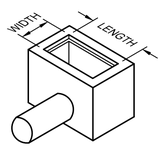
CS8001

SHEET 18 OF 22

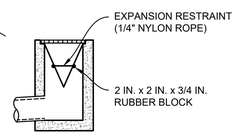
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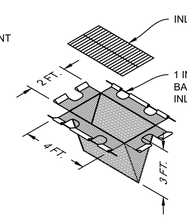
WAREHOUSE EXPANSION (SEE SHT. CS0400 FOR LOCATION)
SCALE: 1"=30'



ISOMETRIC VIEW



INSTALLATION DETAIL



1 INLET FILTER BAG PROTECTION DETAIL
NOT TO SCALE

NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION.

SOIL EROSION CONTROL LEGEND:

- INLET PROTECTION
- SF — SILT FENCE
- URsB — SOIL TYPE
- SOIL TYPE BOUNDARY LINE
- LIMIT OF DISTURBANCE

0 30' 60'

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NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING
BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

SOIL EROSION AND SEDIMENT CONTROL PLAN II

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	DATE	REVISIONS	BY

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PROJECT	USATX24001
DATE	APRIL 22, 2026
DRAWING SCALE	1"=30'
DRAWN BY	EAB
APPROVED BY	JJR

CS8502

SHEET 19 OF 22

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SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

1. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
2. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
3. APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
4. THE CONTRACTOR SHALL PERFORM ALL WORK, FURNISH ALL MATERIALS AND INSTALL ALL MEASURES REQUIRED TO REASONABLY CONTROL SOIL EROSION RESULTING FROM CONSTRUCTION OPERATIONS AND PREVENT EXCESSIVE FLOW OF SEDIMENT FROM THE CONSTRUCTION SITE.
5. ANY DISTURBED AREA THAT IS TO BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE NEW JERSEY STANDARDS AND THEIR RATES SHOULD BE INCLUDED IN THE NARRATIVE. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
6. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER AND SEED APPLICATION AND RATES OF APPLICATION AT THE REQUEST OF THE CAMDEN SOIL CONSERVATION DISTRICT.
7. ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH AT A RATE OF 2 TONS PER ACRE ACCORDING TO THE NEW JERSEY STANDARDS IMMEDIATELY FOLLOWING ROUGH GRADING.
8. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
9. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
10. A CRUSHED STONE, TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE STABILIZED PAD WILL BE INSTALLED ACCORDING TO THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS.
11. ALL DRIVEWAYS MUST BE STABILIZED WITH 2-½" CRUSHED STONE OR SUBBASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
12. PAVED AREAS MUST BE KEPT CLEAN AT ALL TIMES.
13. ALL CATCH BASIN INLETS WILL BE PROTECTED ACCORDING TO THE CERTIFIED PLAN.
14. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
15. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHOULD BE COMPOSED OF A SUITABLE SEDIMENT FILTER FABRIC. (SEE DETAIL). THE BASIN MUST BE DEWATERED TO NORMAL POOL WITHIN 10 DAYS OF THE DESIGN STORM.
16. NJSA 4:24-39, ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE ALL PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. ALL SITE WORK FOR THE PROJECT MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE A PREREQUISITE TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
17. MULCHING IS REQUIRED ON ALL SEEDED AREAS TO INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED TO PROMOTE EARLIER VEGETATION COVER.
18. OFFSITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE EROSION CONTROL INSPECTOR.
19. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
20. THE CAMDEN SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 72 HOURS PRIOR TO ANY LAND DISTURBANCE.
21. ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ANY SUBSEQUENT OWNERS.
22. IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING OF TOPSOIL, THE STOCKPILE MUST BE STABILIZED ACCORDING TO THE STANDARD FOR TEMPORARY VEGETATIVE COVER. STABILIZE TOPSOIL STOCKPILE WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING. ALL SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY AND THE BASE MUST BE PROTECTED WITH A SEDIMENT BARRIER.
23. ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE CAMDEN SOIL CONSERVATION DISTRICT. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
24. METHODS FOR THE MANAGEMENT OF HIGH ACID PRODUCING SOILS SHALL BE IN ACCORDANCE WITH THE STANDARDS. HIGH ACID PRODUCING SOILS ARE THOSE FOUND TO CONTAIN IRON SULFIDES OR HAVE A PH OF 4 OR LESS.
25. TEMPORARY AND PERMANENT SEEDING MEASURES MUST BE APPLIED ACCORDING TO THE NEW JERSEY STANDARDS, AND MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
26. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
27. DUST IS TO BE CONTROLLED BY AN APPROVED METHOD ACCORDING TO THE NEW JERSEY STANDARDS AND MAY INCLUDE WATERING WITH A SOLUTION OF CALCIUM CHLORIDE AND WATER.
28. ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
29. USE STAGED CONSTRUCTION METHODS TO MINIMIZE EXPOSED SURFACES, WHERE APPLICABLE.
30. ALL VEGETATIVE MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH AMERICAN STANDARDS FOR NURSERY STOCK OF THE AMERICAN ASSOCIATION OF THE NURSERYMAN AND IN ACCORDANCE WITH THE NEW JERSEY STANDARDS.
31. NATURAL VEGETATION AND SPECIES SHALL BE RETAINED WHERE SPECIFIED ON THE LANDSCAPING PLAN.
32. THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR.
33. CONTRACTOR SHALL REMOVE ALL WASHED, TRACKED OR SPILLED SEDIMENTS ON PAVED ROADWAY SURFACES IMMEDIATELY.

STANDARD FOR TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION:

DEFINITION
ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER ON SOILS EXPOSED FOR PERIODS OF TWO TO 6 MONTHS WHICH ARE NOT BEING GRADED, NOT UNDER ACTIVE CONSTRUCTION OR NOT SCHEDULED FOR PERMANENT SEEDING WITHIN 60 DAYS.

PURPOSE
TO TEMPORARILY STABILIZE THE SOIL AND REDUCE DAMAGE FROM WIND AND WATER EROSION UNTIL PERMANENT STABILIZATION IS ACCOMPLISHED.

WATER QUALITY ENHANCEMENT
PROVIDES TEMPORARY PROTECTION AGAINST THE IMPACTS OF WIND AND RAIN, SLOWS THE OVERLAND MOVEMENT OF STORMWATER RUNOFF, INCREASES INFILTRATION AND RETAINS SOIL AND NUTRIENTS ON SITE, PROTECTING STREAMS OR OTHER STORMWATER CONVEYANCES.

WHERE APPLICABLE
ON EXPOSED SOILS THAT HAVE THE POTENTIAL FOR CAUSING OFF-SITE ENVIRONMENTAL DAMAGE.

METHODS AND MATERIALS

1. SITE PREPARATION
A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING, P. 19-1.

B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.

C. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).

2. SEEDBED PREPARATION
A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS THOSE OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS CO-OPERATIVE EXTENSION OFFICES. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 PONDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. APPLY LIMESTONE AT THE RATE OF 2 TONS/ACRE UNLESS SOIL TEST INDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES. TABLE BELOW IS A GENERAL GUIDELINE FOR LIMESTONE APPLICATION.

SOIL TEXTURE	TONS/ACRE	LBS./1,000 S.F.
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH OF THE NEW BRUNSWICK-TRENTON LINE.

B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED IS PREPARED.

C. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AS ABOVE.

D. SOILS HIGH ON SULFIDES OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, PG. 1-1 OF THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.

3. SEEDING
A. SELECT SEED FROM RECOMMENDATIONS IN TABLE.

SEED TYPES	SEEDING RATES 1* (POUNDS)		OPTIMUM SEEDING DATE 2* BASED ON PLANT HARDINESS ZONE 3*			OPTIMUM SEED DEPTH 4* (INCHES)
	PER ACRE	PER 1,000 SQ. FT.	ZONE 5	ZONE 6	ZONE 7	
COOL SEASON GRASSES						
PERENNIAL RYEGRASS	170	4.0	3/15 - 6/1 & 8/1 - 9/15	3/1 - 5/15 & 8/15 - 10/1	2/15 - 5/1 & 8/15 - 10/15	0.5
SPRING OATS	86	2.0	3/15 - 6/1 & 8/1 - 9/15	3/1 - 5/15 & 8/15 - 10/1	2/15 - 5/1 & 8/15 - 10/15	1.0
WINTER BARLEY	96	2.2	8/1 - 9/15	8/15 - 10/1	8/15 - 10/15	1.0
WINTER CEREAL RYE	112	2.8	8/1 - 11/1	8/1 - 11/15	8/1 - 12/15	1.0
WARM SEASON GRASSES						
PEARL MILLET	20	0.5	6/1 - 8/1	5/15 - 8/15	5/1 - 9/1	1.0
MILLET (GERMAN OR HUNGARIAN	30	0.7	6/1 - 8/1	5/15 - 8/15	5/1 - 9/1	1.0
WEEPING LOVEGRASS	5	0.2	6/1 - 8/1	5/15 - 8/15	5/1 - 9/1	0.25

1* SEEDING RATE FOR WARM SEASON GRASS, SHALL BE ADJUSTED TO REFLECT THE AMOUNT OF PURE LINE SEED (PLS) AS DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES.
2* MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR CAN BE IRRIGATED.
3* PLANT HARDINESS ZONE (SEE BELOW)
4* TWICE THE DEPTH FOR SANDY SOILS

ZONE 5B (-10 TO -15)
PORTIONS OF SUSSEX AND WARREN COUNTIES

ZONE 6A (-5 TO -10)
PORTIONS OF SUSSEX, WARREN, PASSAIC, MORRIS, SOMERSET AND HUNTERDON COUNTIES.

ZONE 6B (0 TO -5)
PORTIONS OR BERGEN, CAMDEN, ESSEX AND GLOUCESTER, HUNTERDON, MERCER, MIDDLESEX, HUDSON,MONMOUTH, OCEAN, BURLINGTON, MORRIS, PASSAIC, SOMERSET, UNION, ATLANTIC, CUMBERLAND, AND CAPE MAY COUNTIES.

ZONE 7A (5 TO 0)
PORTIONS OF CAMDEN, GLOUCESTER, SALEM, CUMBERLAND, CAPE MAY, ATLANTIC, BURLINGTON, OCEAN, AND MONMOUTH COUNTIES. ZONE 7B (10 TO 5) PORTIONS OF CAPEMAY, ATLANTIC, OCEAN AND MONMOUTH COUNTIES.

B. CONVENTIONAL SEEDING - APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL.

C. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. POOR SEED TO SOIL CONTACT OCCURS REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.

D. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.

4. MULCHING
MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. (THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT.

A. STRAW OR HAY. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.

APPLICATION
SPREAD UNIFORMLY BY HAND MECHANICALLY SO THAT APPROXIMATELY 85% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.

ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.

4. MULCHING (CONT.)
1. PEG AND TWINE - DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
2. MULCH NETTINGS - STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
3. CRIMPER (MULCH ANCHORING TOOL) - A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC-HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.
4. LIQUID MULCH-BINDERS - MAY BE USED TO ANCHOR SALT HAY OR STRAW MULCHES.

a. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH, IN VALLEYS, AND AT CRESTS OF BANKS. REMAINDER OF AREA SHOULD BE UNIFORM IN APPEARANCE.

b. USE ONE OF THE FOLLOWING:

(1) EMULSIFIED ASPHALT - (SS-1, CSS-1, CMS-2, MS-2, RS-1, RS-2, CRS-1, AND CRS-2). APPLY 0.04 GAL./SQ. YD. OR 194 GAL./ACRE ON FLAT SLOPES LESS THAN 8 FEET HIGH. ON SLOPES 8 FEET OR MORE HIGH, USE 0.075 GAL./SQ. YD. OR 363 GAL./ACRE. THESE MATERIALS MAY BE DIFFICULT TO APPLY UNIFORMLY AND WILL DISCOLOR SURFACES.

(2) ORGANIC AND VEGETABLE BASED BINDERS - NATURALLY OCCURRING, POWDER BASED, HYDROPHILIC MATERIALS WHEN MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOTOXIC EFFECT OR IMPEDE GROWTH OF TURFGRASS. USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH MATERIALS. MANY NEW PRODUCTS ARE AVAILABLE, SOME OF WHICH MAY REQUIRED FURTHER EVALUATION FOR USE IN THIS STATE.

(3) SYNTHETIC BINDERS - HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED AND FOLLOWING APPLICATION TO MULCH, DRYING AND CURING SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER. IT SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS.

B. WOOD-FIBER OR PAPER-FIBER MULCH. SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. THIS MULCH SHALL NOT BE MIXED IN THE TANK WITH THE SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

C. PELLETIZED MULCH. COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS/1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDED AREAS WHERE WEED-SEED FREE MULCH IS DESIRED OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE.

APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZE MULCH ON THE SEED BED IS EXTREMELY IMPORTANT FOR SUFFICIENT ACTIVATION AND EXPANSION OF THE MULCH TO PROVIDE SOIL COVERAGE.

STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION:

DEFINITION
ESTABLISHMENT OF PERMANENT VEGETATIVE COVER ON EXPOSED SOILS WHERE PERENNIAL VEGETATION IS NEEDED FOR LONG TERM PROTECTION.

PURPOSE
TO PERMANENTLY STABILIZE THE SOIL, ASSURING CONSERVATION OF SOIL AND WATER, AND TO ENHANCE THE ENVIRONMENT.

WATER QUALITY ENHANCEMENT
SLOWS THE OVERLAND MOVEMENT OF STORMWATER RUNOFF, INCREASES INFILTRATION AND RETAINS SOIL AND NUTRIENTS ON SITE, PROTECTING STREAMS OR OTHER STORMWATER CONVEYANCES.

WHERE APPLICABLE
ON EXPOSED SOILS THAT HAVE A POTENTIAL FOR CAUSING OFF-SITE ENVIRONMENTAL DAMAGE.

METHODS AND MATERIALS

1. SITE PREPARATION
A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING, P. 19-1.

B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.

C. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).

2. SEED BED PREPARATION
A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS THOSE OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS CO-OPERATIVE EXTENSION OFFICES. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 PONDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. APPLY LIMESTONE IN ACCORDANCE WITH THE TABLE BELOW AND THE RESULTS OF SOIL TESTING. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES. TABLE BELOW IS A GENERAL GUIDELINE FOR LIMESTONE APPLICATION RATES.

SOIL TEXTURE	TONS/ACRE	LBS./1,000 S.F.
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH OF THE NEW BRUNSWICK-TRENTON LINE.

B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED IS PREPARED.

C. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.)

D. HIGH ACID PRODUCING SOIL.
SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH 5 OR MORE BEFORE INITIATING SEEDBED PREPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS.

3. SEEDING
A. SEED MIX SHALL BE AS FOLLOWS

TYPE 'A-3' SEED MIXTURE - TO BE PLANTED FROM 2/1 - 4/30 AND FROM 8/15 - 10/30.

KIND OF SEED	MINIMUM PURITY-%	MINIMUM GERMINATION-%	% OF TOTAL WEIGHT MIXTURE	PLANTING RATE POUNDS/ACRE
TALL FESCUE (REBEL OR FALCON)	95	80	70	120
KENTUCKY BLUEGRASS (KENBLUE, SOUTH DAKOTA OR PARK)	85	75	10	20
CHEWINGS FESCUE (HIGHLIGHT OR JAMESTOWN)	95	85	10	40
PERENNIAL RYEGRASS (LINN)	98	85	10	20

B. CONVENTIONAL SEEDING - APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL.

C. HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. POOR SEED TO SOIL CONTACT OCCURS REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.

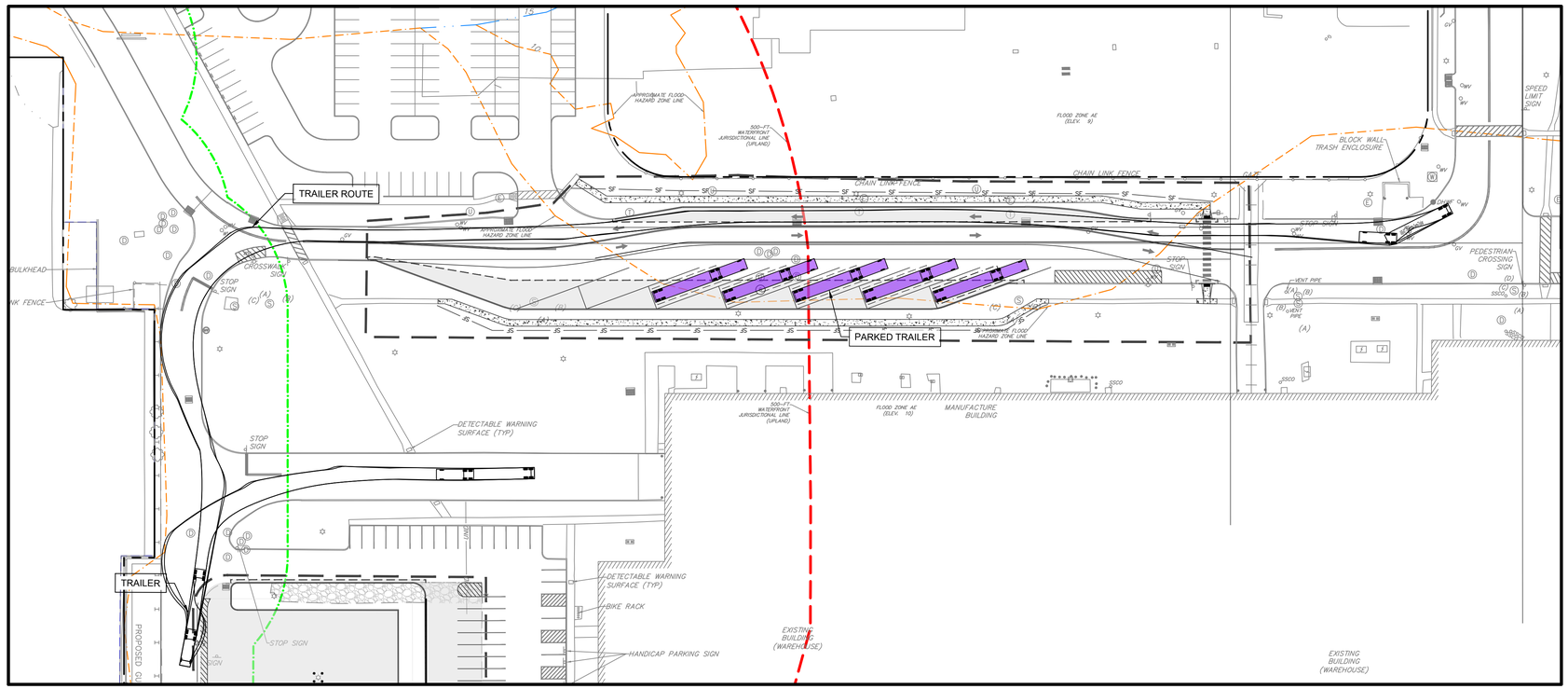
D. AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.

4. MULCHING
FOLLOW SAME STANDARDS AS LISTED UNDER TEMPORARY VEGETATIVE COVER FOR STABILIZATION.

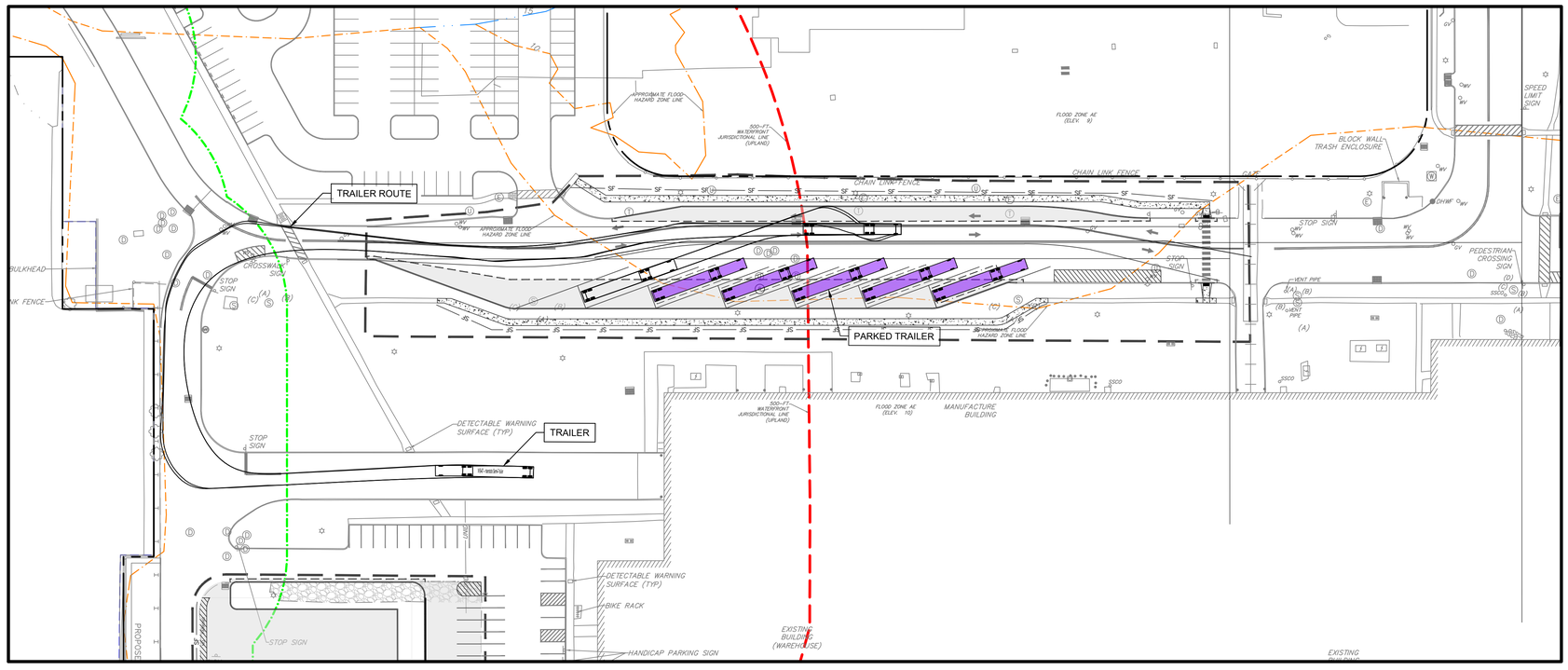
5. IRRIGATION (WHERE FEASIBLE)
IF SOIL MOISTURE IS DEFICIENT, AND MULCH IS NOT USED, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER (A MINIMUM OF ¦ INCH TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES.

6.TOPDRESSING
SINCE SLOW RELEASE NITROGEN FERTILIZER (WATER INSOLUBLE IS PRESCRIBED IN SECTION II.A. SEEDBED PREPARATION IN THIS STANDARD, NO FOLLOW-UP OF TOPDRESSING IS MANDATORY. AN EXCEPTION MAY BE MADE WHERE GRASS NITROGEN DEFICIENCY EXISTS TO THE EXTENT THAT TURF FAILURE MAY DEVELOP. IN THAT INSTANCE, TOPDRESS WITH 10-10-10 OR EQUIVALENT AT 400 POUNDS PER 1,000 SQ. FT.

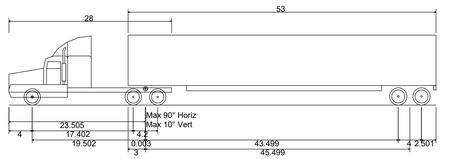
7. ESTABLISHING PERMANENT VEGETATIVE STABILIZATION
THE QUALITY OF PERMANENT VEGETATION RESTS WITH THE CONTRACTOR. THE TIMING OF SEEDING, PREPARING THE SEEDBED, APPLYING NUTRIENTS, MULCH AND OTHER MANAGEMENT ARE ESSENTIAL. THE SEED APPLICATION RATE IS REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGETATION. UP TO 50% REDUCTION IN APPLICATION RATES MA



TRAILER ENTERING
SCALE: 1"=50'



TRAILER ENTERING
SCALE: 1"=50'



WB-67 - Interstate Semi-Trailer

Overall Length	73.505ft
Overall Width	8.500ft
Overall Body Height	12.052ft
Min Body Ground Clearance	1.334ft
Max Track Width	8.500ft
Lock-to-lock time	6.00s
Max Steering Angle (Virtual)	28.40°

0 50' 100'

NOT FOR CONSTRUCTION

Pennoni

NJ COA GA28033300

PENNONI ASSOCIATES INC.
2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8600 F 856.668.8610

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING
BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

VEHICULAR CIRCULATION PLAN I

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	DATE	REVISIONS	BY

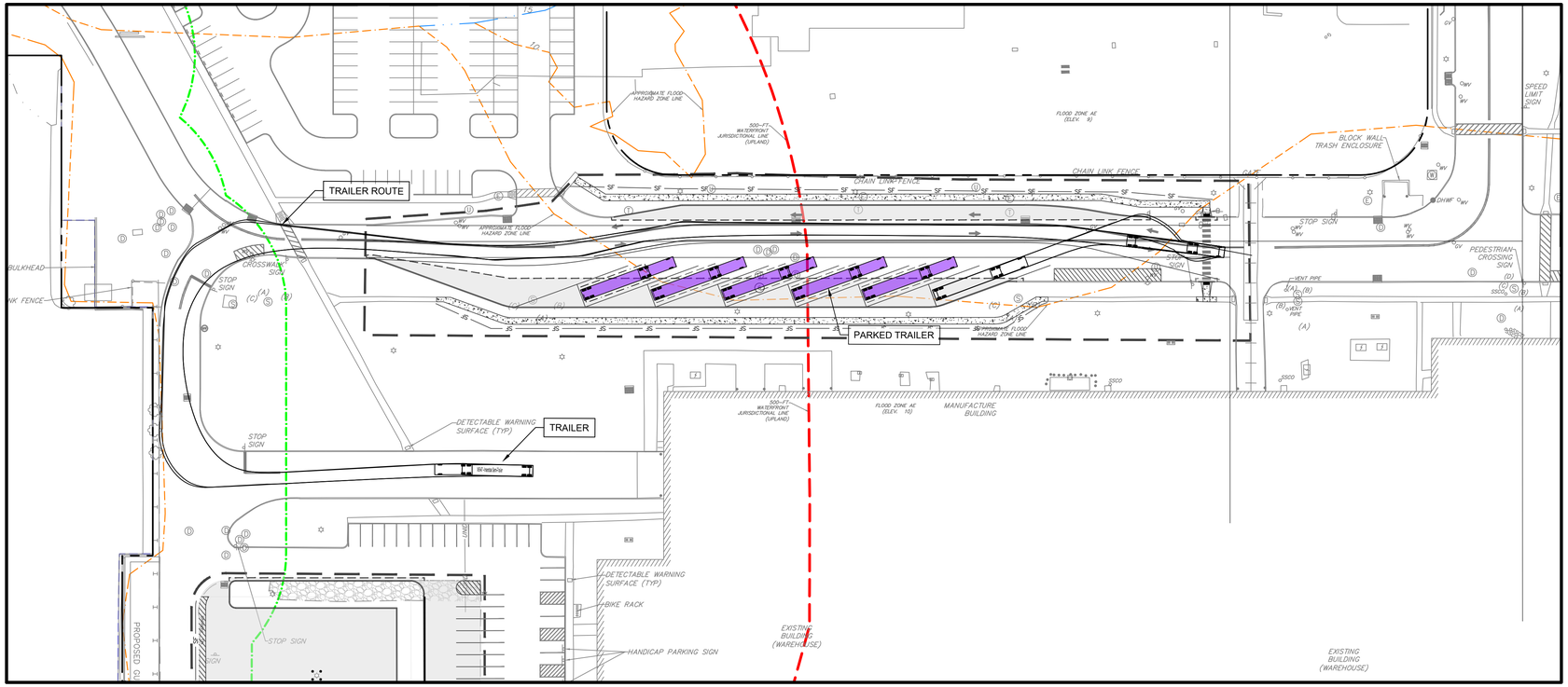
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PROJECT	USATX24001
DATE	APRIL 22, 2026
DRAWING SCALE	1"=50'
DRAWN BY	EAB
APPROVED BY	JJR

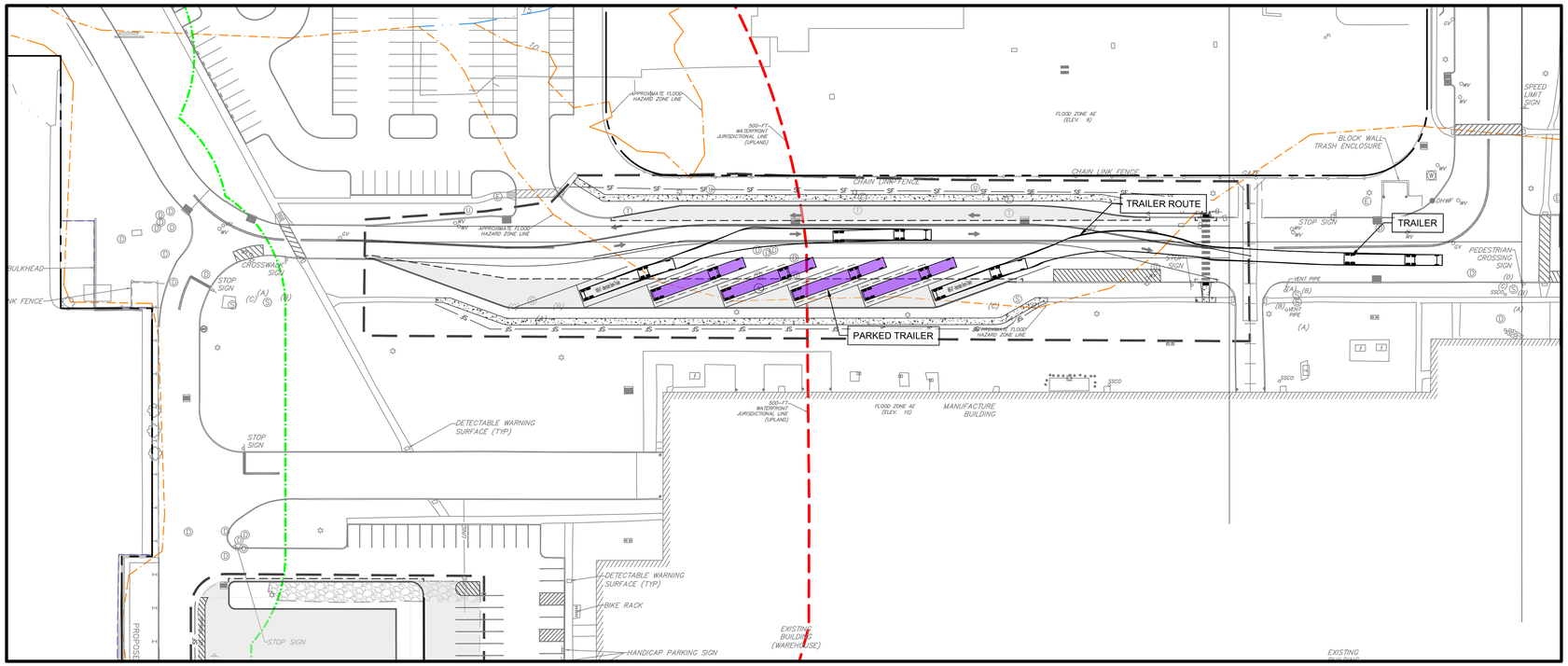
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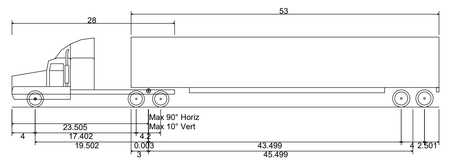
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TRAILER ENTERING
SCALE: 1"=50'



TRAILER ENTERING
SCALE: 1"=50'



WB-67 - Interstate Semi-Trailer

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NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING
BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

VEHICULAR CIRCULATION PLAN II

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

NO.	DATE	REVISIONS	BY

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PROJECT	USATX24001
DATE	APRIL 22, 2026
DRAWING SCALE	1"=50'
DRAWN BY	EAB
APPROVED BY	JJR

CS9802

SHEET 22 OF 22

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Stormwater Maintenance Report

Holtec Technology Center Building Expansion & Driveway Widening
Block 455, Lot 1 and Block 457, Lot 16

City of Camden
Camden County, New Jersey



Prepared For:
Holtec Technology Center, LLC
1 Holtec Boulevard
Camden, NJ 08104

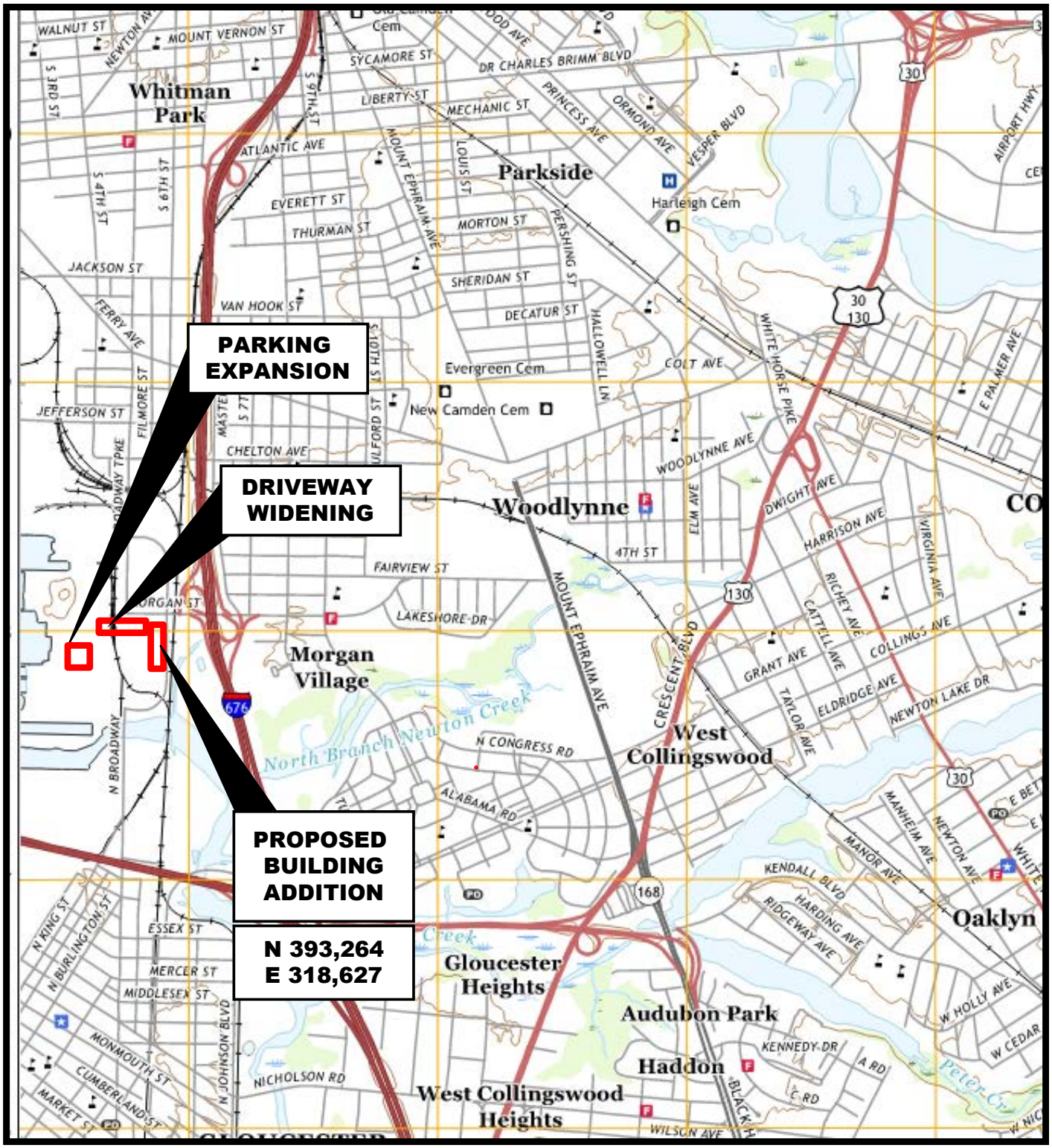
Prepared By:
Pennoni Associates, Inc.
2 Aquarium Drive Suite 320
Camden, NJ 08103
T: 856-668-8600

_____

Joseph J. Raday., PE, CME
Professional Engineer: New Jersey – No. 24GE043768

April 22, 2026

USATX24001



USGS 7.5 Min. Camden Quadrangle, Camden County, New Jersey

Pennoni PENNONI ASSOCIATES INC. 2 AQUARIUM DRIVE, SUITE 320 CAMDEN, NEW JERSEY 08103		Holtec Technology Center Building Expansion BLOCK 455 AND 457, LOTS 1 AND 16 CITY OF CAMDEN, CAMDEN COUNTY NEW JERSEY
Job No. USATX24001	Scale: 1"=2,000'	Figure 1 –USGS Map

STORMWATER MANAGEMENT MEASURES MAINTENANCE PLAN

Development Name: Holtec Building Expansion
and Driveway Widening

Address: 1 Holtec Boulevard

Township, County: City of Camden, Camden County, NJ

Block 455, Lot 1
Block 457, Lot 16

Party Responsible for Maintenance:

Owner: Holtec Technology Center, LLC
Address: 1 Holtec Boulevard
Camden, New Jersey 08104

Contact Person(s): Mr. Steve Trendler, Facilities Manager

Phone: (856)797-0900 Ext 3701

Maintenance Company: Municipal Maintenance Co,
Address: 1352 Taylors Lane
Cinnaminson, New Jersey 08077
Contact Person(s): Mr. Ryan Cotter
Phone: (856)786-9434

Prepared by: Pennoni Associates Date: 4/22/2026

Last Revised on _____

1.0 PROJECT OVERVIEW

This Operation and Maintenance Manual has been prepared in support of the stormwater management facilities for Holtec Warehouse Site, City of Camden, Camden County, NJ.

The party responsible for maintenance shall be:

Owner:
Holtec Technology Center, LLC
1 Holtec Boulevard
Camden, New Jersey 08104
(856)797-0900 Ext 3701 / Mr. Steve Trendler, Facilities Manager

Maintenance Company:
Municipal Maintenance Co,
1352 Taylors Lane
Cinnaminson, New Jersey 08077
Contact Person(s): Mr. Ryan Cotter
Phone: (856)786-9434

The site is located on the following Block and Lot:

Block 455, Lot 1
Block 457, Lot 16

NJ State Plane Coordinates of each facility is indicated below:

Manufactured Treatment Device WQ Device 121	-	N 393,455	E 318,353
Manufactured Treatment Device WQ Device 209	-	N 392,853	E 318,437
Manufactured Treatment Device WQ Device 101	-	N 393,469	E 317,253
Manufactured Treatment Device WQ Device 103	-	N 393,434	E 317,706
Manufactured Treatment Device WQ Device 201	-	N 393,229	E 317,305
Manufactured Treatment Device WQ Device 4	-	N 392,994	E 317,362
Manufactured Treatment Device WQ Device 5	-	N 392,995	E 317,287

Each facility location relative to the site has been indicated on the Facility Location Map on page 3 and 4.

The inspection, maintenance and repair report shall be updated and kept on file at the City of Camden and Holtec's maintenance office.

The person responsible for maintenance shall evaluate the effectiveness of the maintenance plan at least once per year and adjust the plan and deed as needed.

The person responsible for maintenance shall retain and make available, upon request by any public entity with administrative, health, environmental or safety authority over the site, the maintenance plan and the documentation required.

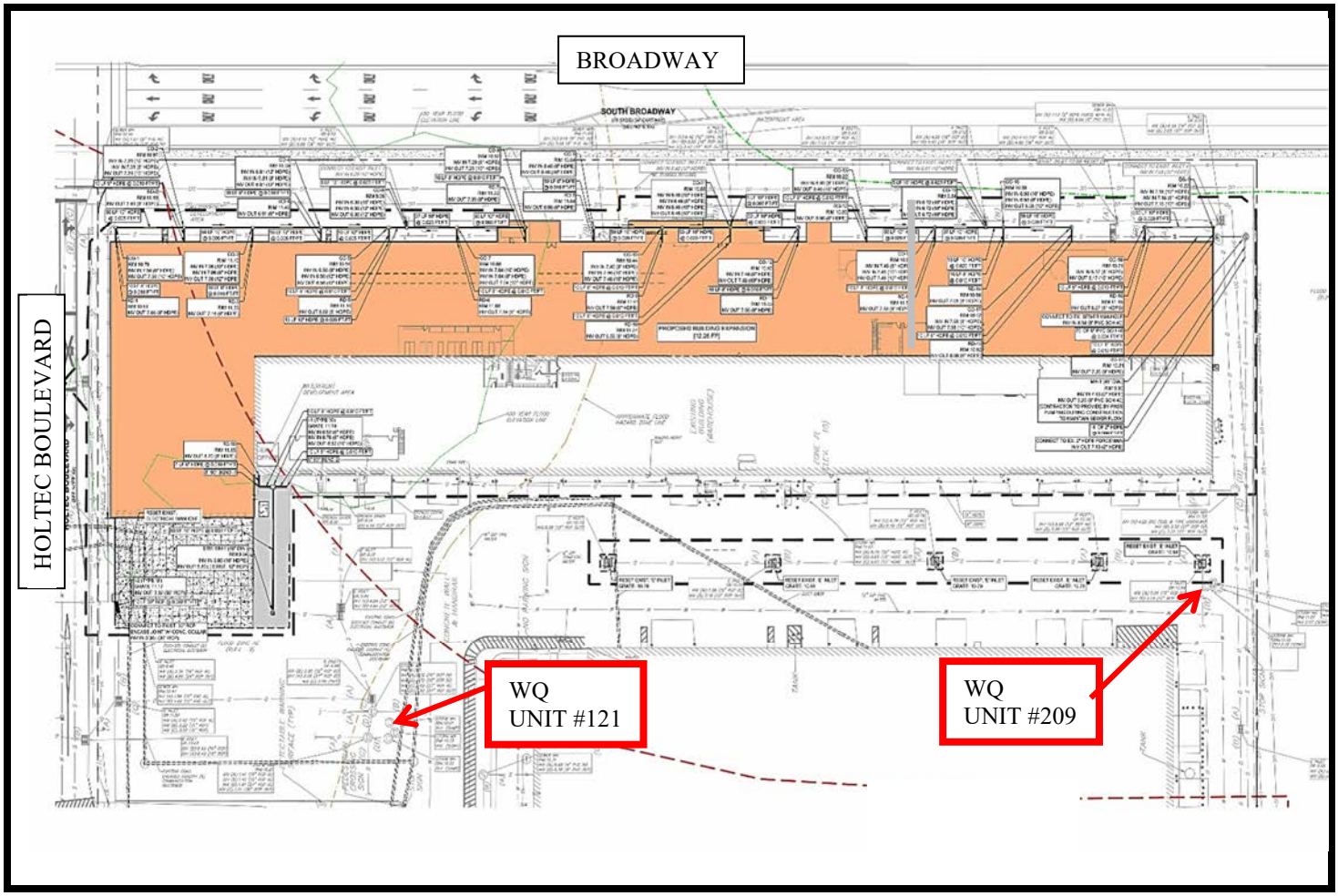
To the extent feasible by law, the City will at all reasonable times have a right of ingress and egress over the easement area and the right to enter the easement area via any road or parking lot located within any common area owned by the Grantor to inspect the system located in the easement area.

Except in the case of an emergency, the City will provide not less than seven (7) days prior notice to the performing any inspection or monitor of the System in accordance with approved plan. The applicant agrees that the failure to timely object after receiving notice from the City constitutes consent to inspection of the property within the timeframe specified in the notice.

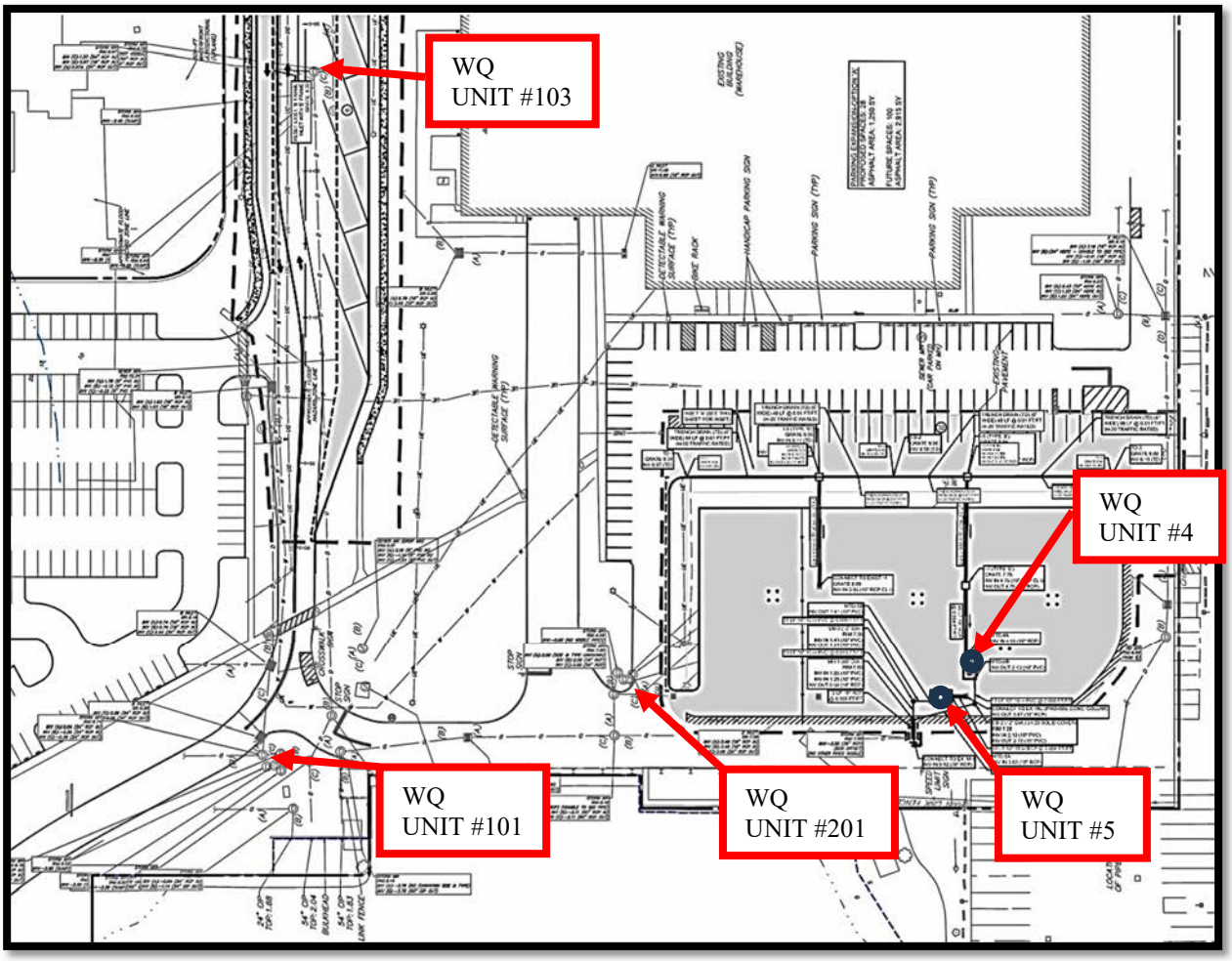
If, after reasonable notice by the City, the applicant fails to maintain the System in accordance with the approved Manual and the Maintenance Plan, the City may perform any maintenance needed to correct a condition that impacts the effectiveness of routine maintenance and operations of the system and collect any costs incurred as a result from each owner of the System and in the same manner as real property taxes are collected.
In addition, the City may seek reimbursement under any other method legally available to collect debts owed.

The applicant agrees to indemnify and save the City harmless from any and all claims for direct damage to persons or property arising from inspections performed by the City.

Facility Location Map



Facility Location Map



2.0 STORMWATER SYSTEM OVERVIEW

The project construction consists of a proposed building addition, paved parking expansion, stormwater collection, landscaping and lighting.

Area 1A consists of the site area containing the expanded warehouse building for manufacturing use, loading area and parking areas located adjacent to the intersection of Broadway and Holtec Boulevard. Note: The motor vehicle surface area (stone and paving) has been reduced by 0.57 acres due to the building expansion. PDA 1A drains towards existing stormwater inlets located along the westerly side of the building expansion. The runoff is conveyed to an existing 50% TSS removal MTD and onsite stormwater infrastructure to the Delaware River (POI-1).

Area 1B consists of the site area containing a warehouse building, warehouse building expansion, grass area and stone access area located adjacent to Broadway. Note: The stone storage area has been removed due to building expansion, reducing motor vehicle surface area by 1.04 acres. PDA 1B drains towards existing stormwater inlets located within the grass area along the easterly side of the site. The runoff is conveyed to an existing onsite stormwater infrastructure to the Delaware River (POI-1).

Area 2 consists of parking areas on the westerly side of the warehouse building. PDA 2 drains towards existing stormwater inlets located within the existing parking area. The runoff is conveyed to an existing 50% removal MTD (WQ Unit #121), and onsite stormwater infrastructure to the Delaware River (POI-1). The motor vehicle surface area remains the same.

Area 3 consists of the HTC driveway and additional parking spaces located along the driveway. PDA 3 drains in a westerly direction to the stormwater conveyance system within the HTC driveway. Motor vehicle surface area is increased by 0.24 acres. The runoff is conveyed to an existing 50% TSS removal MTD (WQ Unit # 101), and onsite stormwater infrastructure to the Delaware River (POI-1).

Area 4 consists of existing parking areas and proposed parking area expansion on the westerly side of the site. PDA 4 drains towards existing stormwater inlets located along the westerly side of the parking area expansion. Two proposed GI MTD's (WQ Unit #4 and WQ Unit #5) will be constructed upstream the existing MTD to provide 80% TSS removal for the proposed parking expansion. The runoff is conveyed by existing stormwater infrastructure to the Delaware River (POI-1).

The proposed stormwater collection system will connect into the existing stormwater system that extends through Holtec's site and discharges directly to the Delaware River.

.

3.0 MAINTENANCE/INSPECTIONS

The following summarizes general maintenance items, which should be addressed on an annual basis:

1. Removal of debris and sediment.

2. General maintenance and repairs to the infiltration areas and vegetated swales.

An inspection, maintenance and repair report will be updated annually by the municipality.

4.0 GENERAL MAINTENANCE

All facilities expected to receive and/or trap debris and sediment must be inspected for clogging and excessive debris and sediment accumulation at least four (4) times annually as well as after every storm exceeding one (1) inch of rainfall. Such components may include bottoms, riprap aprons and inflow points.

5.0 REGULAR MAINTENANCE ITEMS

Regular maintenance items, as itemized in the checklist enclosed as Appendix B, include the following items:

1. Removal and Disposal of Trash and Debris: Immediately following any significant rainfall event, as well as after every storm exceeding 1 inch of rainfall and at least once every 3 months, all trash and debris should be removed from the impoundment area.

2. Sediment Removal and Disposal: Accumulated sediment should be removed before it threatens the operation or storage volume of the facility. Sediment volume should be monitored on a quarterly basis to ensure the outlets are not blocked.

   Disposal of sediment should be in accordance with current Borough standards and regulations of the New Jersey Department of Environmental Protection.

Corrective Maintenance

Corrective maintenance should be provided as soon as practicable after a situation that requires attention is reported. Corrective maintenance includes repair of damage caused by vandalism, removal of debris and sediment that threatens the operational capacity of the facility, and corrections of any problems that jeopardize the safety or operation of the facility.

Maintenance Inspection

An inspection of the facility should be made at a minimum of once every year to determine the effectiveness of the maintenance work and the condition of the facility. In addition, an inspection should be conducted whenever a severe storm warning is issued in order to determine the readiness of the facility.

Records

Included in this report as Appendix B, are checklists and logs for use by maintenance personnel and inspectors. These should be utilized every time maintenance or inspection is performed on the facility. The reports should be appropriately filed and used to determine effectiveness of the existing maintenance and inspection schedules and used as a guide to revise the schedules as necessary to effectively maintain the operational integrity of the facility.

6.0 BEST MANAGEMENT PRACTICES (BMPS)

The NJDEP Stormwater Management Regulations (N.J.A.C. 7:8) have been adopted to address the adverse impacts of land development. The stormwater management measures taken to meet these requirements are collectively known as Best Management Practices (BMPs). BMPs can be non-structural, as in the minimization of impervious surfaces, or structural, as in the construction of stormwater management facilities discussed in this manual.

6.1 GREEN INFRASTRUCTURE MANUFACTURED TREATMENT DEVICE

Definition

A green infrastructure manufactured treatment device is a stormwater treatment system used to address stormwater runoff quality impacts of site development.

Purpose

Green infrastructure manufactured treatment devices will remove 80% of total suspended solids.

Maintenance

1. Inspection

   Inspect the unit and the surrounding area with photographs. All structural components must be inspected at least once annually for cracking and deterioration or more frequently if specified in the manufacturers MTD Operations and Maintenance Manual.

2. Sediment/Debris Removal

Sediment removal should take place when the MTD is thoroughly dry. Disposal of debris, trash and sediment or other waste material should be done at suitable disposal/recycling sites and in compliance with all applicable local, state and federal waste disposal regulations.

3. Vegetation

Examine the plant's health and replace it if necessary. Prune as necessary to encourage growth in the correct directions. Vegetative cover must be maintained at 85%.

A minimum of one inspection during the growing season and one inspection during the non-growing season is required to ensure the health of the vegetation.

6.2 NON-GREEN MANUFACTURED TREATMENT DEVICE

Definition

A manufactured treatment device is a prefabricated stormwater treatment structure to remove pollutants from stormwater runoff.

Purpose

The manufactured treatment device is a hydrodynamic vortex separator designed to provide high removal efficiencies of settleable solids and their associated pollutants, oil, and floatables over a wide range of flow rates.

Maintenance

1. Sediment Removal and Disposal

Inspect your manufactured treatment device every six months during the first year of operation to determine your site-specific rate of pollutant accumulation. Maintenance events may include inspection, oil & floatables removal, and sediment removal. Accumulated sediment should be removed at a minimum of once per year and/or following a spill in the drainage area. Sediment shall be removed when it accumulates to a depth of 36". Dried sediment must be manually removed by maintenance crews.

Disposal of debris, trash and sediment or other waste material should be done at suitable disposal/recycling sites and in compliance with all applicable local, state and federal waste disposal regulations.

2. Floatables Removal and Disposal

Floatables cleanout is typically done in conjunction with sediment removal. A commercially owned sump-vac is used to remove captured sediments and floatables.

Floatables and loose debris can also be netted with a skimmer and pole. The access port located at the top of the manhole provides unobstructed access for a vactor hose and skimmer pole to be lowered to the base of the sump.

3. Other Maintenance criteria

The manufactured treatment device should be inspected and maintained in accordance with the manufacturer's instructions and/or recommendations and any maintenance requirements associated with the device's certification by NJDEP Office of Innovation Technology.

6.3 STORMWATER INLETS AND PIPES

Definition

Inlet structures are box structures with grate openings to receive surface water which is then conveyed through the underground stormwater pipe system.

Purpose

The primary function of an inlet structure is to allow water to enter the storm drainage system. Inlets also serve as access points for cleaning and inspection.

Maintenance

1. Sediment Removal and Disposal

Inspect your structures every six months during the first year of operation to determine your site-specific rate of pollutant accumulation. Maintenance events may include inspection, floatables removal and sediment removal.

Disposal of debris, trash and sediment or other waste material should be done at suitable disposal/recycling sites and in compliance with all applicable local, state and federal waste disposal regulations.

2. Other Maintenance criteria

Regular inspections of inlets and storm pipes should take place approximately three times per year, with additional inspections advised after major weather events. Inspection of the drainage flow paths should be performed to check for blockages. All drains must remain free of foreign objects.

Pipes should be checked for settlement at the joints, which may cause leakage and undermining of the system. Inspections in locations that are not easily accessible may be performed by video inspection of the system.

7.0 SAFETY OF INSPECTION AND MAINTENANCE PERSONNEL

Maintenance personnel may require training in maintenance tasks. Inspectors are expected to be dressed in protective clothing and use the appropriate equipment and safety gear in accordance with OSHA regulations and procedures when performing their tasks. Equipment should always be operated safely and in accordance with manufacturers' specifications. Call utility companies before initiating any maintenance activity involving any excavation.

8.0 MISCELLANEOUS ITEMS

a. Emergency Conditions

Recommended corrective responses to various emergency conditions that may be encountered at the stormwater management measure are to be determined on an as-needed basis after each subsequent inspection.

b. Specialized Stormwater Management Measures

Maintenance, repair, and replacement instructions for specialized, proprietary, and non-standard measure components, in addition to manufacturer's product installation guides and user manuals, have been included and referenced, if applicable, on the design plans for the project. Refer to specific product guides and user manuals for specific details regarding the respective items.

c. Disposal and Recycling Sites

Approved disposal and recycling sites and procedures for sediment, trash, debris, and other material removed from the stormwater management measures during maintenance operations shall be utilized and have been referenced herein and on the design plans for the project.

d. As-Built Construction Plans

As-built construction plans of the stormwater management measures and copies of pertinent construction documents, such as laboratory test results, permits, and completion certificates are required for verification for the associated measures to function properly and in accordance with the approved design.

As-built construction plans will be available through the party responsible displayed in the report.

e. Permits for Maintenance Activities

There are currently no permits required from the New Jersey Department of Environmental Protection for the maintenance activities associated with the proposed drainage system as outlined herein. However, compliance with all regulations and requirements pertaining to the disposal of sediment, trash, debris and other removed material is required.

APPENDIX A

- **TOOLS AND EQUIPMENT**
- **MAINTENANCE CATEGORIES**

TOOLS AND EQUIPMENT

The following is a list of required inspection equipment for routine operation and maintenance procedures and inspections:

1. A clipboard, a pencil and the inspection checklist. The checklist is included in Appendix B.
2. A standard 6-foot collapsible ruler.
3. A camera. Photographs or observed portions of the basin will provide a measure of performance when comparing past and present maintenance practices or conditions.
4. A probe. A stiff light stick or rod with a blunt tip of sufficient strength to penetrate soil.
5. A flashlight. Can be used to observe the inside of outlet pipes and structural components.

Maintenance may include the use of equipment including the following:

1. Wheelbarrow.
2. Safety Equipment and Personal Protective Equipment
3. Crow bar or other tool to remove grate or lid
4. Pole with skimmer or net
5. Trash bag for removed floatables
6. Vacuum truck.
7. Ladder

Sources of the following materials should be identified for immediate use of warranted repairs by the inspection:

1. Biofiltration media

MAINTENANCE CATEGORIES

1. **Immediate Maintenance:** demands immediate attention and usually requires construction equipment and professional guidance. Immediate maintain is characterized by the following:

    a. A blocked inlet pipe or outlet pipe.
    b. Following a spill in the drainage area.
    c. Foul odor.
    d. Clogged drains.

2. **Corrective Maintenance:** should be performed as soon as possible after an inspection. Corrective maintenance consists of the following:

    a. A simple probe can be used to determine the level of accumulated solids stored in the sump.
    b. During the first year of operation, the unit should be inspected every six months to determine the rate of sediment and floatables accumulation.

2. **Continuing Maintenance Manufactured Treatment Device:** will occur on a regular basis and can be performed during the inspection or in accordance with the maintenance schedule outlined above. Continuing maintenance includes:

    a. Sediment removal is not required unless sediment depths exceed 75% of maximum clean-out depths as indicated in the manufacturer's operation manual.
    b. Inspection may be conducted during any season of the year.

3. **Continuing Maintenance Manufactured Treatment Device:** will occur on a regular basis and can be performed during the inspection or in accordance with the maintenance schedule outlined above. Continuing maintenance includes:

    a. Inspection may be conducted during any season of the year.

MAINTENANCE INSPECTION

An inspection of the facilities should be made a minimum of once every three months in order to determine the effectiveness of the maintenance work and the condition. In addition an inspection should be made whenever a severe weather warning is issued in order to determine the readiness of the facilities.

Reports should be appropriately filed and used to determine the effectiveness of the existing maintenance and inspection schedules and also used as a guide to revising the schedules as necessary to maintain the operational integrity.

APPENDIX B

- **BASIN INSPECTION AND MAINTENANCE COSTS**
- **INSPECTION CHECKLISTS/ MAINTENANCE ACTIONS**
- **CORRECTIVE MAINTENANCE RECORD**
- **MANUFACTURERS INFORMATION**

ENGINEER'S ESTIMATE OF
MAINTENANCE COSTS
HOLTEC INTERNATIONAL WAREHOUSE EXPANSION
CITY OF CAMDEN
CAMDEN COUNTY, NEW JERSEY

Item #	Description	Rate	Unit	Total Units	Frequency Per Year	Item Total
1	General Maintenance	$ 100.00	LS	7	2	$1,400.00
2	Visual Inspection	$ 175.00	LS	7	2	$2,450.00
3	Trash and Debris Removal	$ 200.00	LS	7	As Needed	$1,400.00
4	Preventive Maintenance	$ 150.00	LS	7	1	$1,050.00
5	Corrective Maintenance	$ 225.00	LS	7	1	$1,575.00
6	Vacuum Clean MTD	$ 300.00	LS	5	2	$3,000.00
7	Vacuum Clean Subsurface Pipes	$ 2,000.00	LS	1	1	$2,000.00

TOTAL ANNUAL	$12,875.00

Inspection Checklist / Maintenance Actions
MTD

Checklist (circle one)**:** Quarterly / Annual / Monthly / Special Event Inspection

Checklist No. _____ **Inspection Date: _____**

Date of most recent rain event: _____

Rain Condition (circle one):
Drizzle / Shower / Downpour / Other _____

Ground Condition (circle one):
Dry / Moist / Ponding / Submerged / Snow accumulation

The following inspection items and preventative/corrective maintenance actions listed below represent general requirements. The design engineer and/or responsible party shall adjust the items and actions to better meet the conditions of the site, the specific design targets, and the requirements of regulatory authorities.

If the manufacturer's Operation and Maintenance Manual provides a checklist, the design engineer may use the manufacturer's checklist; otherwise, the design engineer should summarize the inspection points and the preventative/corrective maintenance actions in the checklist template below.

	For Inspector			For Maintenance Crew
Component No. Component Name	**Inspection Item and Inspection Item No.**		**Result**	**Preventative / Corrective Maintenance Actions**
A	1		Y__ N__	
	2		Y__ N__	
	3		Y__ N__	
	4		Y__ N__	
	5		Y__ N__	
B	1		Y__ N__	
	2		Y__ N__	
	3		Y__ N__	
	4		Y__ N__	
	5		Y__ N__	
Note:				

Follow Up Items: (Component No. / Inspection Item No.):
(e.g., B/1, C/2)_____

Associated Work Orders: # _____, # _____, # _____, # _____, # ____

_____ _____ _____
Inspector Name Signature Date

Report issues to the local authority and mosquito commission as required by local ordinances and regulatory authorities.

File this checklist in the Maintenance Log after performing maintenance.

Preventative Maintenance Record

Corresponding Checklist No. _____
Component No._____, Inspection Item No._____

Work Logs

Activities	Components	Date Completed

Debris, sediment, and trash are handled (onsite / by _____ (contractor name) to disposal site _____). (See Part I: Maintenance Plan – Disposal Plan Section)

Crew member:_____/_____ Date: _____
(name/ signature)

Supervisor:_____/_____ Date: _____
(name/ signature)

File this Preventative Maintenance Record in the Maintenance Log after performing maintenance.

Corrective Maintenance Record

1. **Work Order # _____ Date Issued _____**

2. **Issue to be resolved**:

3. The issue was from **Corresponding Checklist No. _____, Component No._____, Inspection Item No.**___(e.g., 2, 3)_____**.**

4. **Required Actions**

Actions	Planned Date	Date Completed

5. **Responsible person(s):**
   _____

6. **Special requirements**
   - Time of the season or weather condition:_____
   - Tools/equipment:_____
   - Subcontractor (name or specific type):_____

Approved by _____/_____ Date _____
(name/signature)

Verification of completion by _____/_____ Date _____
(name/signature)

File this Corrective Maintenance Record in the Maintenance Log after performing maintenance.

THE ECOSTREAM BIOFILTER™ IS A BIOFILTRATION STORMWATER TREATMENT TECHONOLOGY THAT RELIES ON PHYSICAL, CHEMICAL AND BIOLOGICAL MECHANISMS TO REMOVE TOTAL SUSPENDED SOLIDS, TOTAL PHOSPHORUS, TOTAL NITROGEN, HEAVY METALS, OIL AND GREASE, TRASH AND BACTERIA.

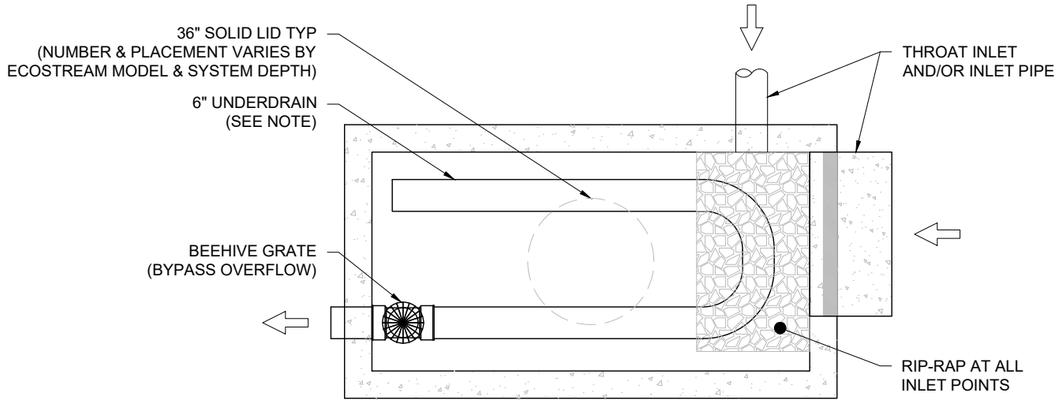
Model	Vault Size (ft)	Media Filtration Area (sf)	Min Inlet to Outlet Depth[1] (in)	Overflow to Outlet Depth (in)	Design Treatment Rate (cfs)	Bypass Standpipe (in)	Solid Lid Size & Number
ES16B	4 x 4	16	32	32	0.147	6	36 in (1x)
ES24B	4 x 6	24	32	32	0.221	6	36 in (1x)
ES32B	4 x 8	32	32	32	0.294	6	36 in (1x)
ES36B	6 x 6	36	32	32	0.331	6	36 in (1x)
ES40B	4 x 10	40	32	32	0.368	6	36 in (2x)
ES48B	4 x 12	48	32	32	0.441	6	36 in (2x)
ES48B	6 x 8	48	32	32	0.441	6	36 in (1x)
ES60B	6 x 10	60	32	32	0.551	8	36 in (1x)
ES72B	6 x 12	72	32	32	0.662	8	36 in (2x)
ES80B	8 x 10	80	32	32	0.735	8	36 in (1x)
ES96B	8 x 12	96	32	32	0.882	10	36 in (2x)
ES112B	8 x 14	112	32	32	1.029	10	36 in (2x)
ES128B	8 x 16	128	32	32	1.176	10	36 in (2x)

WQ UNIT 5
WQ UNIT 4

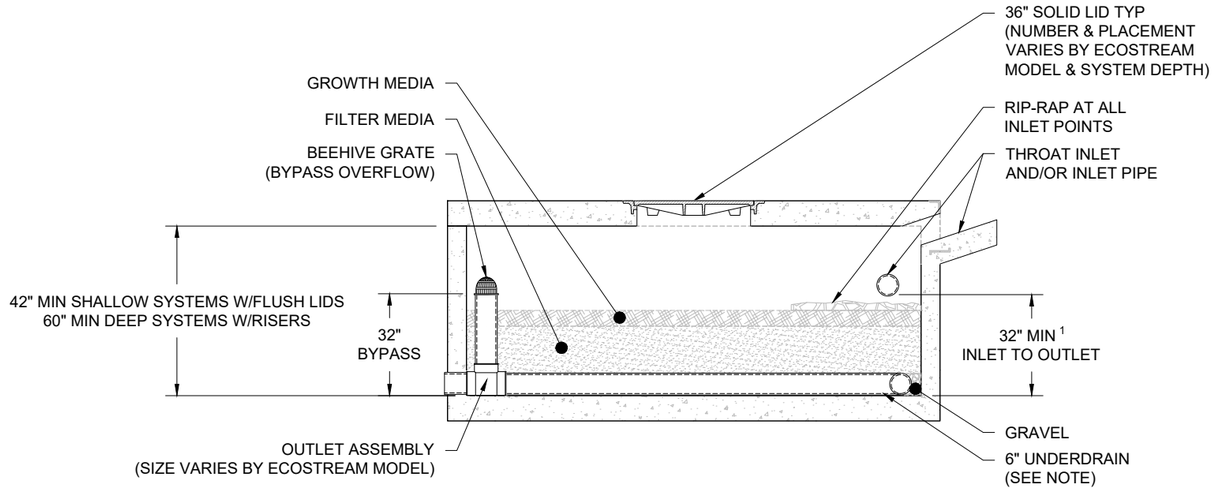
[1] *A min drop of 29" can be used however the design engineer must review the 3" tailwater (up to the beehive bypass) on the inlet pipe to ensure it does not affect the project's overall design.*

NOTES:

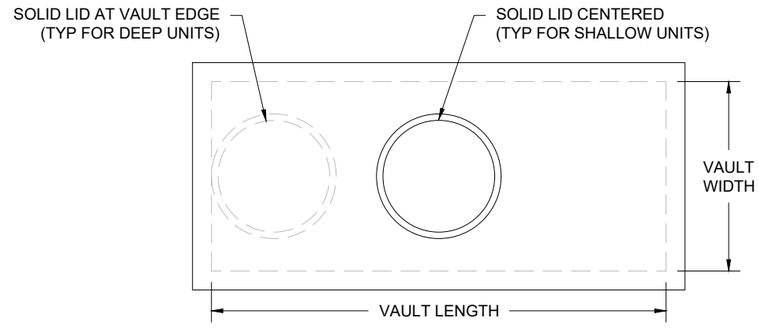
- UNDERDRAIN SHOWN IS SCHEMATIC ONLY. FOR DETAILS ON UNDERDRAIN SIZING AND LAYOUT SEE ECOSTREAM INSTALLATION GUIDE FOR DETAILS, KIT NUMBER AND PLACEMENT OPTIONS.



ECOSTREAM PLAN VIEW WITH SOLID LID
NOT TO SCALE



ECOSTREAM PROFILE VIEW WITH SOLID LID
NOT TO SCALE



SOLID LID PLACEMENT
SIZE AND NUMBER OF SOLID LIDS VARY BY ECOSTREAM MODEL & SYSTEM DEPTH

ADS ECOSTREAM SPECIFICATIONS

PRODUCTS

A. INTERNAL COMPONENTS: SHALL BE SUBSTANTIALLY CONSTRUCTED OF RECYCLED POLYETHYLENE OR OTHER THERMOPLASTIC MATERIAL APPROVED BY THE MANUFACTURER

B. FILTER MEDIA: FILTER MEDIA SHALL BE BY ADS AND SHALL CONSIST OF A PROPRIETARY BLEND OF FILTER MEDIA.

C. PRECAST CONCRETE VAULT: DESIGNED FOR H-20 TRAFFIC LOADING AND APPLICABLE SOIL LOADS OR AS OTHERWISE DETERMINED BY A LICENSED PROFESSIONAL ENGINEER. THE MATERIALS AND STRUCTURAL DESIGN OF THE DEVICES SHALL BE PER ASTM C478, ASTM C857 AND ASTM C858.

PERFORMANCE

A. THE STORMWATER FILTER SYSTEM SHALL BE AN ONLINE OR OFFLINE DESIGN BASED ON LOCAL REQUIREMENTS CAPABLE OF TREATING 100% OF THE REQUIRED TREATMENT FLOW AT FULL SEDIMENT LOAD CONDITIONS.

B. THE STORMWATER FILTER SYSTEM SHALL HAVE NO MOVING PARTS.

C. THE STORMWATER TREATMENT UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 80% OF SUSPENDED SOLIDS.

ECOSTREAM INSTALLATION NOTES

INSTALLATION OF THE STORMWATER TREATMENT UNIT(S) SHALL BE PERFORMED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH INSTRUCTIONS CAN BE OBTAINED BY CALLING ADVANCED DRAINAGE SYSTEMS AT (800) 821-6710 OR BY LOGGING ON TO WWW.ADSPIPE.COM.

ECOSTREAM BIOFILTER
SOLID LID INSTALLATION
BASIC MEDIA

DATE: 09/04/24 | DRAWN: JLM | CHECKED: SMW
DRAWING #: 570-020

DATE	DWN	CHK
8/14/2025	JLM	AT

EcoStream™ Biofilter
Stormwater Media Filters

4640 TRUEMAN BLVD
HILLIARD, OH 43026

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS/STORMTECH UNDER THE DIRECTION OF THE PROJECTS ENGINEER OF RECORD ("EOR") OR OTHER PROJECT REPRESENTATIVE. THIS DRAWING IS NOT INTENDED FOR USE IN BIDDING OR CONSTRUCTION WITHOUT THE EOR'S PRIOR APPROVAL. EOR SHALL REVIEW THIS DRAWING PRIOR TO BIDDING AND/OR CONSTRUCTION. IT IS THE EOR TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS. IT IS THE ULTIMATE RESPONSIBILITY OF THE ENGINEER OF RECORD

WQ UNIT 4 AND 5

EcoStream™ Biofiltration System Operation & Maintenance Guidance

Description

The EcoStream Biofiltration System (EcoStream) is an engineered stormwater biofiltration treatment system designed to capture and retain a variety of pollutants including sediments, phosphorus, heavy metals, and hydrocarbons from stormwater runoff. EcoStream incorporates the processes of sedimentation, filtration, infiltration, adsorption, and biological uptake to provide both water quality and quantity benefits in a small footprint. EcoStream should be activated after a site is stabilized to prevent uncontrolled stormwater runoff from the construction site from entering the system.

Configuration

The EcoStream system comes in many standard sizes and is available in several different deployment configurations. Excess flow spills over an overflow pipe and is directly discharged along with treated flow. The EcoStream system can be configured as a planter box filter with an open top that is suitable for shrubs and grasses, or as an underground filter with a subsurface inlet pipe. The optional external high flow bypass may be incorporated with any of these configurations.

Operations

Stormwater runoff enters the EcoStream via a pipe inlet or curb inlet and flows downward under gravity flow through mulch/media/gravel layers. The top layer provides pretreatment by retaining the coarse sediments, trash, and debris. The fine sediments and dissolved pollutants are further treated through the media bed in depth. Treated water enters an underdrain pipe or infiltrates into the ground (installations with open bottoms). A flow control orifice is placed downstream of the underdrain to ensure the distribution of flow in the media bed.

Inspections and Maintenance Overview

The EcoStream system requires periodic inspection and maintenance for it to operate at the design efficiency. The inspection process helps in deciding when and what level of maintenance will be needed to bring the unit up to or near peak efficiency. As with ADS' other water quality products, the maintenance cycle of the EcoStream system will be driven mostly by the actual solids and trash/debris load brought into the system.

The frequency of maintenance depends on the site-specific pollutant loading conditions. ADS recommends a visual inspection of the system quarterly for the first year of service, and after every high intensity and high-volume storm event occurring (1 in/hr and greater than 3 inches rainfall within 24 hours) during the first six months. After the first year, systems should be inspected at least bi-annually and ideally before the spring or rainy season and after the summer season, or prior to fall or winter seasons. The inspections should look for signs of but not limited to erosion, displacement, sediment, and trash accumulations in the upper portion of media bed or planting area. It is recommended that some general "good housekeeping" maintenance be performed at the beginning of the rainy or spring season every year. Depending on the site conditions, full system maintenance including removal of all media and plant life may be necessary if ponding water remains on top of media bed for 24 hours after any storm event.

For most maintenance needs, the EcoStream planting component follows the practices used for handling standard bioretention systems (i.e., general landscaping, cover management, and replacement planting of surface plants).

It may be advisable to “water” or irrigate the EcoStream plant area in geographical regions experiencing droughts or prolong periods without rainfall during the first year of service. Watering the plant life will help to ensure the plants can take hold and be established for future growth and treatment capabilities.

Inspection and General Maintenance Equipment

The following is a list of equipment recommended for inspection and general maintenance.

- Personal Protection Equipment (pants, steel-toed shoes, safety glasses, gloves, safety vest, hard hat, etc.)
- Manhole Hook or Crowbar
- Traffic Cones and Signage
- Stadia Rod and Tape Measure
- Inspection Operation and Maintenance (O&M) Log or other recording method (included at end of guide)
- Flashlight, Trash removal “Net” device, shovel, rake, broom and trash receptacle
- Vac Truck (if more extensive maintenance is required)
- Light Duty Construction Equipment (if bioretention media replacement is required

General Inspection and Maintenance Procedures

Routine inspection will ensure that the system is performing at optimal conditions and that the risk of public flooding is low. EcoStream inspection involves a visual inspection of the plant surface area, structure inlet, and the media bed. This can all be done at the surface and requires no confined space entry into the EcoStream unit. An Inspection O&M log should be used, dates and weather conditions should be noted.

If the EcoStream is located in a traffic area (i.e. roadway or automobile travel way), and inspection is not possible without entering the vehicular area, safety measures should be employed --safety cones setup, etc. --prior to performing the inspection and maintenance.

For inspection of the treatment chamber of the EcoStream system, the manhole cover should be safely removed (i.e., using a manhole hook). A visual inspection of any inlet grates should be noted. If grates are missing or inlets are damaged, contact ADS for recommendation of repair. A visual inspection of the general appearance of the EcoStream should be performed, and notes should be taken detailing the condition of the surface plant life, invasive species intrusion, vandalism, erosion in the planting area and any signs of standing water or disturbed or “shifted” surface soil bed area. This general system condition should be noted in the inspection/maintenance log.

If the plant life and surface media show signs of distress, general landscaping O&M should be performed, i.e., raking, weeding (removal of invasive plants), and general planting replacement to maximize the cover area in the planting bed/media treatment chamber. If ponding of water is present in the media treatment cell and the last rain event was greater than 24 hours prior, further inspection should be performed to ensure the effluent pipe is not blocked.

A visual inspection (with a flashlight if needed) will inspect the appearance of the inlet (pipe or curb) and media bed. Remove all trash and debris from the inlet and the top of the media bed manually or by vacuum truck as required. If there is a visible sediment load or the media bed appears to have been greatly disturbed during preceding storm events, redistribute or replace the top mulch layer as needed. If sediment load is heavy, remove the mulch layer and inspect the biofiltration media and replace the top two-inch media if it appears clogged. Additionally, a further inspection should be undertaken within 24 hours after a major storm event to see if there is standing water in the system. Water stagnation in the treatment chamber indicates that media bed replacement may be recommended. ADS Field Engineering can assist with this analysis.

ADS should be contacted for material specifications and replacement parts. Media chamber replacement will involve utilizing small construction excavation equipment.

Disposal of material from the treatment chamber should be in accordance with the local municipality’s requirements. Typically, traditional municipal landfills can be used for disposal of solids and trash obtained from servicing the EcoStream. Call ADS at 800-821-6710 for further information.

Records of Operation and Maintenance

The owner shall maintain annual records of the operation and maintenance of the EcoStream unit to document the effective maintenance of this important component of a site’s stormwater management program. The attached Inspection & Maintenance Log is suggested and should be retained for a minimum period of two years.

EcoStream BioFilter Inspection and O&M Log Sheet

Project Name: _____

Location: _____

Date	Inspection or O&M	Observation/Actions	Operator comments and general description	Inspector

adspipe.com
800-821-6710

ADS "Terms and Conditions of Sale" are available on the ADS website, www.ads-pipe.com
The ADS logo, EcoPure BioFilter™ and the Green Stripe are registered trademarks of Advanced Drainage Systems, Inc.
© 2023 Advanced Drainage Systems, Inc. MG1.11 2/23 CS

WQ UNITS 101,103,121,201 AND 209

Vortechs® Maintenance

The Vortechs system should be inspected at regular intervals and maintained when necessary to ensure optimum performance. The rate at which the system collects pollutants will depend more heavily on site activities than the size of the unit, e.g., unstable soils or heavy winter sanding will cause the swirl chamber to fill more quickly but regular sweeping will slow accumulation.

Inspection

Inspection is the key to effective maintenance and is easily performed. Pollutant deposition and transport may vary from year to year and regular inspections will help ensure that the system is cleaned out at the appropriate time. Inspections should be performed twice per year (i.e. spring and fall) however more frequent inspections may be necessary in equipment washdown areas and in climates where winter sanding operations may lead to rapid accumulations. It is useful and often required as part of a permit to keep a record of each inspection. A simple inspection and maintenance log form for doing so is provided on the following page, and is also available on contechstormwater.com.

The Vortechs system should be cleaned when inspection reveals that the sediment depth has accumulated to within 12 to 18 inches (300 to 450 mm) of the dry-weather water surface elevation. This determination can be made by taking two measurements with a stadia rod or similar measuring device; one measurement from the manhole opening to the top of the sediment pile and the other from the manhole opening to the water surface. Note: To avoid underestimating the volume of sediment in the chamber, the measuring device must be carefully lowered to the top of the sediment pile. Finer, silty particles at the top of the pile typically offer less resistance to the end of the rod than larger particles toward the bottom of the pile.

Cleaning

Cleaning of the Vortechs system should be done during dry weather conditions when no flow is entering the system. Clean-out of the Vortechs system with a vacuum truck is generally the most effective and convenient method of excavating pollutants from the system. If such a truck is not available, a "clamshell" grab may be used, but it is difficult to remove all accumulated pollutants using a "clamshell".

In installations where the risk of petroleum spills is small, liquid contaminants may not accumulate as quickly as sediment. However, an oil or gasoline spill should be cleaned out immediately. Motor oil and other hydrocarbons that accumulate on a more routine basis should be removed when an appreciable layer has been captured. To remove these pollutants, it may be preferable to use adsorbent pads to solidify the oil since these pads are usually much easier to remove from the unit individually and less expensive to dispose of than the oil/water emulsion that may be created by vacuuming the oily layer. Floating trash can be netted out if you wish to separate it from the other pollutants.

Cleaning of a Vortechs system is typically done by inserting a vacuum hose into the swirl chamber and evacuating this chamber of water and pollutants. As water is evacuated, the water level outside of the swirl chamber will drop to a level roughly equal to the crest of the lower aperture of the swirl chamber. The water outside the swirl chamber should remain near this level throughout pumping as the bottom and sides of the swirl chamber are sealed to the tank floor and walls. This "water lock" feature prevents water from migrating into the swirl chamber, exposing the bottom of the baffle wall and creating excess pump-out volume. Floating pollutants will decant into the swirl chamber as the water level is drawn down. This allows most floating material to be withdrawn from the same access point above the swirl chamber. Floating material that does not decant into the swirl chamber during draw down should be skimmed from the baffle chamber. If maintenance is not performed as recommended, sediment may accumulate outside the swirl chamber. If this is the case, it may be necessary to pump out other chambers. It is advisable to check for sediment accumulation in all chambers during inspection and maintenance.

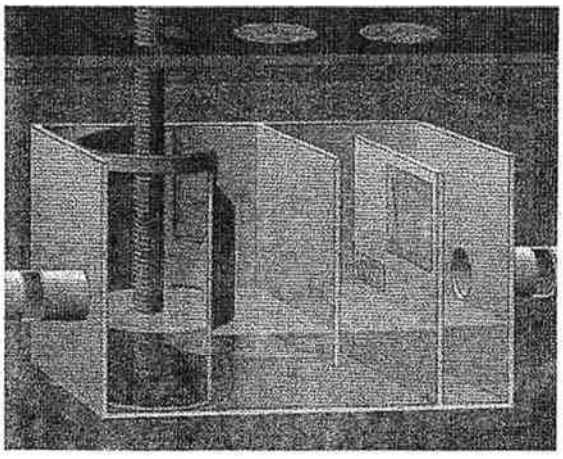
These maintenance recommendations apply to all Vortechs systems with the following exceptions:

1. It is strongly recommended that when cleaning systems larger than the Model 16000 the baffle chamber be drawn down to depth of three feet prior to beginning clean-out of the swirl chamber. Drawing down this chamber prior to the swirl chamber reduces adverse structural forces pushing upstream on the swirl chamber once that chamber is empty.
2. Entry into a Vortechs system is generally not required as cleaning can be done from the ground surface. However, if manned entry into a system is required the entire system should be evacuated of water prior to entry regardless of the system size.

Manhole covers should be securely seated following cleaning activities to prevent leakage of runoff into the system from above and also to ensure proper safety precautions. If anyone physically enters the unit, Confined Space Entry procedures need to be followed.

Disposal of all material removed from the Vortechs system should be done in accordance with local regulations. In many locations, disposal of evacuated sediments may be handled in the same manner as disposal of sediments removed from catch basins or deep sump manholes. Check your local regulations for specific requirements on disposal.

For assistance with maintaining your Vortechs system, contact us regarding the CONTECH Maintenance Compliance Certification Program.



Vortechs Inspection & Maintenance Log

Vortech Model: _____ Location: _____

Date	Water depth to sediment[1]	Floatable Layer Thickness[2]	Describe Maintenance Performed	Maintenance Personnel	Comments

1. The water depth to sediment is determined by taking two measurements with a stadia rod: one measurement from the manhole opening to the top of the sediment pile and the other from the manhole opening to the water surface. If the difference between these measurements is less than eighteen inches the system should be cleaned out. Note: To avoid underestimating the volume of sediment in the chamber, the measuring device must be carefully lowered to the top of the sediment pile.

2. For optimum performance, the system should be cleaned out when the floating hydrocarbon layer accumulates to an appreciable thickness. In the event of an oil spill, the system should be cleaned immediately.

Stormwater Management Report

Holtec Technology Center Building Expansion & Driveway Widening

Block 455, Lot 1 and Block 457, Lot 16

City of Camden
Camden County, New Jersey



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April 22, 2026

USATX24001

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1.0 Introduction

Pennoni Associates, Inc., has been retained by Holtec Technology Center, LLC to provide engineering services for a building addition, driveway widening, and parking area expansion at their Camden campus located at 1 Holtec Boulevard in the City of Camden, Camden County, NJ.

2.0 Project Description

Location

The property is located along South Broadway and Holtec Boulevard in the City of Camden, New Jersey. The property can be found on the United States Geological Survey (USGS) 7.5- minute topographic quadrangle for Camden, New Jersey. A copy of the USGS map is provided as Figure 1. The property consists of Block 455, Lot 1, and Block 457, Lot 16. A copy of the City tax map is provided as Figure 2.

Pre-Developed Conditions

The project site is part of the Holtec Technology Center (HTC) development located along Broadway and Holtec Boulevard. The site currently contains a manufacturing building, a warehouse building, office buildings, loading areas and surface parking lots. The existing stormwater conveyance system was installed under the Holtec Campus construction in 2016 and discharges to the Delaware River. The stormwater conveyance system is sized for build out of the project site. Existing water quality structures are designed to treat regulated impervious surface from the project site (reference Appendix C, Stormwater Management Report, Holtec Technology Center, prepared by T&M Associates, last revised May 1, 2015). Under current stormwater regulations the existing MTD's are classified as non-green-infrastructure BMP's.

The existing watershed area for this analysis consists of five (5) subdrainage areas; Existing Drainage Area 1A (EDA 1A), Existing Drainage Area 1B (EDA 1B), Existing Drainage Area 2 (EDA 2), Existing Drainage Area 3 (EDA 3), and Existing Drainage Area 4 (EDA 4) draining towards one (1) point of interest, Delaware River (POI-1). The drainage areas and points of interest are illustrated on the Pre-Developed Drainage Area Plan CS9001 in Appendix F.

Existing Drainage Area 1A (EDA 1A) consists of a warehouse building, grass area, stone laydown area, loading area and parking areas located adjacent to the intersection of Broadway and Holtec Boulevard. EDA 1A drains towards existing stormwater inlets located along the westerly side of the existing parking area. The runoff is conveyed to an existing 50% TSS removal MTD and onsite stormwater infrastructure located in the HTC driveway to the Delaware River (POI-1).

Existing Drainage Area 1B (EDA 1B) delineated area consists of a warehouse building, grass area and stone storage areas adjacent to Broadway. EDA 1B drains towards existing stormwater inlets located within the stone storage area along the easterly side of the site. The runoff is conveyed to the existing onsite stormwater infrastructure, and outfalls to the Delaware River (POI-1).

Existing Drainage Area 2 (EDA 2) consists of parking areas on the westerly side of the warehouse building. EDA 2 flows towards existing stormwater inlets located within an existing parking area. The runoff is conveyed through an existing 50% TSS removal MTD and outfalls to the Delaware River (POI-1).

Existing Drainage Area 3 (EDA 3) consists of the HTC driveway. EDA 3 flows in a westerly direction to the stormwater conveyance system within the road. The runoff is conveyed to an existing 50% TSS removal MTD, and outfalls to the Delaware River (POI-1).

Existing Drainage Area 4 (EDA 4) consists of existing parking areas and dirt/grass areas on the westerly side of the site. EDA 4 drains towards existing stormwater inlets located along the westerly side of the existing grass/parking area. The runoff is conveyed through an existing 50% TSS removal MTD, and onsite stormwater infrastructure to the Delaware River (POI-1).

Pre-developed hydrograph calculations are included as Appendix A. The Pre-Developed Drainage Area Plan (CS9001) is within Appendix F.

Proposed Conditions

The project construction consists of a proposed building addition to the existing warehouse for manufacturing use, paved parking expansion, driveway widening, stormwater collection, landscaping and lighting.

The proposed watershed area for this analysis consists of five (5) subdrainage areas; Proposed Drainage Area 1A (PDA 1A), Proposed Drainage Area 1B (PDA 1B), Proposed Drainage Area 2 (PDA 2), Proposed Drainage Area 3 (PDA 3), and Proposed Drainage Area 4 (PDA 4) draining towards one (1) point of interest, Delaware River (POI-1). The drainage areas and points of interest are illustrated on the Post-Developed Drainage Area Plan (CS9002) in Appendix F.

Proposed Drainage Area 1A (PDA 1A) delineated area consists of the expanded warehouse building, loading area and parking areas located adjacent to the intersection of Broadway and Holtec Boulevard. **Note: The motor vehicle surface areas (stone and paving) within PDA 1 have been reduced by 0.57 acres due to the building expansion**. PDA 1A drains towards existing stormwater inlets located along the westerly side of the building addition. The runoff is conveyed to an existing 50% TSS removal MTD and onsite stormwater infrastructure and outfalls to the Delaware River (POI-1).

Proposed Drainage Area 1B (PDA 1B) consists of the site area containing a warehouse building with expansion, grass area and stone access area located adjacent to Broadway. **Note: The stone storage area will be removed for the new building expansion, resulting in a reduction of motor vehicle surface area by 1.04 acres**. PDA 1B flows towards existing stormwater inlets located within the grass area along the easterly side of the site. The runoff is conveyed to an existing onsite stormwater infrastructure to the Delaware River (POI-1).

Proposed Drainage Area 2 (PDA 2) consists of parking areas on the westerly side of the warehouse building. PDA 2 drains towards existing stormwater inlets located within an existing parking area. The runoff is conveyed to an existing 50% TSS removal MTD, and onsite stormwater infrastructure and outfalls to the Delaware River (POI-1). The motor vehicle surface within PDA 2 will remain unchanged under proposed conditions.

Proposed Drainage Area 3 (PDA 3) consists of the HTC driveway and additional parking spaces located along the driveway. PDA 3 flows in a westerly direction to the stormwater conveyance system within the HTC driveway. Motor vehicle surface area will increase by 0.24 acres. The runoff is conveyed to an existing 50% TSS removal MTD, and onsite stormwater infrastructure and outfalls to the Delaware River (POI-1).

Proposed Drainage Area 4 (PDA 4) contains existing parking areas and a proposed parking area expansion on the westerly side of the site. PDA 4 drains towards existing stormwater inlets located along the westerly side of the parking area expansion. A proposed GI MTD will be constructed upstream the existing MTD to provide 80% TSS removal for the proposed parking expansion. The runoff is conveyed by existing stormwater infrastructure and outfalls to the Delaware River (POI-1). **Note: The parking area expansion is in an area that was originally designed for vehicular parking and building under the 2016 HTC project.**

The post-developed hydrograph calculations are included as Appendix B. The Post-Developed Drainage Area Plan (CS9002) is included within Appendix F.

3.0 Soils

The Natural Resources Conservation Service (NRCS) Soil Survey was reviewed for the site. The soils in the location of the proposed site are Bigapple sandy loam (BhhA), 0 to 2 percent slopes, Type A soils; Urban Land sandy substratum (URdB), 0 to 5 percent slopes, no rating; Urban Land-Sauken complex (URsB), 0 to 5% slopes, no rating. The NRCS Soil Survey map is provided as Figure 3.

4.0 Watershed Area

Based on a review of FEMA Flood Insurance Rate Maps, and NJ GeoWeb, we have made the following determinations for waterways near the project limits:

FEMA FIRM panel number 34007C0036F (effective August 17, 2016) (Figure 4) indicates the immediate project area is within Zone AE, elevations 9 & 10 (refer to Figure 4).

5.0 Requirements for Stormwater Management

As required by N.J.A.C. 7:8-1.6, all "major development" shall comply with the requirements of N.J.A.C. 7:8 Stormwater Management Rules. A "Major development" means an individual "development," as well as multiple developments that individually or collectively result in:

1. The disturbance of one or more acres of land since February 2, 2004;
2. The creation of one-quarter acre or more of "regulated impervious surface" since February 2, 2004;
3. The creation of one-quarter acre or more of "regulated motor vehicle surface" since March 2, 2021; or
4. A combination of 2 and 3 above that totals an area of one-quarter acre or more. The same surface shall not be counted twice when determining if the combination area equals one-quarter acre or more.

Major development includes all developments that are part of a common plan of development, or sale (for example, phased residential development) that collectively or individually meet one or more of paragraphs 1, 2, 3, or 4 above. Projects undertaken by any government agency that otherwise meet the definition of "major development", but which do not require approval under the Municipal Land Use Law, N.J.S.A. 40:55D-1 et seq., are also considered "major development."

The stormwater management rules at N.J.A.C. 7:8 apply to the project site, as the site meets the definition for a major development based on the following:

1. The disturbance of one or more acres of land since February 2, 2004. **The project will disturb more than one acre of land, therefore as required by N.J.A.C. 7:8-1.6, it shall comply with the requirements of N.J.A.C. 7:8 Stormwater Management Rules.**

6.0 Techniques of Analysis

In accordance with the stormwater runoff calculation methodology at N.J.A.C. 7:8-5.6, the quantity (volume and rate) of stormwater runoff for pre-and post-developed conditions is calculated based on the USDA NRCS methodology as described in NRCS National Engineering Handbook, Part 630.

Pre- and post-developed times of concentration (TC) are determined using the hydraulically longest flow path.

The developed area is made up of Bigapple sandy loam, Type A soils. CNs of 39 for lawn in good condition, 91 for gravel areas and 98 for impervious areas have been utilized in the calculations, In addition, Urban Land, Type D soils, CNs of 80 for lawn in good condition, 84 for lawn/landscaped areas in fair condition, 91 for gravel areas and 98 for impervious areas have been utilized in the calculations.

The impervious areas were calculated as separate subareas to generate hydrographs without weighted CNs as outlined in the CMP N.J.A.C. 7:50-6.84(a) 6.i (2) and the BMP manual chapter 5.

Using the drainage areas, the TCs and CNs as input data, Pond Pack Connect Edition, a hydrologic/hydraulic software program by Bentley, was utilized to generate runoff rates and volumes.

7.0 Key Hydrologic Principals

A 24-hour, NOAA _C (Region C) storm distribution and the DelMarVa unit hydrograph was utilized with the following rainfall amounts, within Camden County for each storm analyzed (reference Appendix G). Precipitation adjustment factors are included in the precipitation depths below.

Current Year Rainfall Intensities		Projected Rainfall Intensities (Year 2100)	
2 year	3.41 inches	2 year	3.91 inches
10 year	5.23 inches	10 year	6.17 inches
100 year	8.95 inches	100 year	11.84 inches

8.0 Design Criteria

Nonstructural measures employed in the engineering of this site include.

1. Protect areas that provide water quality benefits or areas particularly susceptible to erosion of sediment loss.
   - Construction of the project will comply with the Soil Erosion and Sediment Control Act, NJSA 4:24-39 et seq. and implementing rules.
2. Minimize land disturbance including clearing and grading.
   - Land disturbance has been minimized to the extent practical.
3. Minimize soil compaction.
   - Light construction equipment will be utilized to minimize soil compaction.

Green Infrastructure

To satisfy the groundwater recharge, runoff quality and runoff quantity the project design must utilize green infrastructure BMP's as identified in Table 5-1 at N.J.A.C. 7:8-5.2 (f) or an alternative stormwater management measure approved in accordance with N.J.A.C. 7:8-5.2(g). The following green infrastructure BMP's from Table 5-1 at N.J.A.C. 7:8-5.2 (b) have been incorporated into the project design:

1. Manufactured Treatment Device (MTD) – Two (2) green infrastructure manufactured treatment devices are provided as part of the project design. As required by N.J.A.C. 7:8-5.3 (b), the green infrastructure MTD is subject to a maximum contributory drainage area of 2.5 acres.

80% TSS green infrastructure MTD's (EcoStream biofilter) are proposed within the parking lot expansion area and treat contributory drainage areas, 0.60 acres and 0.25 acres of motor vehicle surface. The proposed green infrastructure BMP units comply with N.J.A.C. 7:8-5.3 (b).

Groundwater Recharge

Pursuant to the N.J.A.C. 7:8-5.4 (b), groundwater recharge requirements apply if there is either a 0.25 acre increase in the impervious area or 1 acre of disturbance. The project disturbs more than 1 acre and increases motor vehicle surfaces by more than 0.25 acres. Therefore, one of the following requirements shall be met to satisfy the standards for groundwater recharge: (1) 100 percent of the site's average annual pre-developed groundwater recharge volume shall be maintained after development; (2) 100 percent of the difference between the site's pre- and post-developed 2-year runoff volumes shall be infiltrated.

According to the New Jersey State Development and Redevelopment Plan, the project site is within a designated Urban Center. Groundwater recharge is not required within an "Urban Redevelopment Area" pursuant to N.J.A.C. 7:8-5.4(b)2 (Appendix F, Supporting Documentation). Therefore, groundwater recharge was not evaluated for this project.

Runoff Quality

Pursuant to N.J.A.C. 7:8-5.2 (f), the green infrastructure BMP's can be utilized to satisfy the requirements of N.J.A.C. 7:8-5.5 for stormwater runoff quality. Stormwater Management measures shall be designed to reduce the post-construction load of total suspended solids (TSS) in stormwater runoff generated from the water quality design storm by 80 percent of the anticipated load from the developed site. The increase in motor vehicle surfaces, must be treated for 80% TSS reductions.

The water quality (WQ) design storm is 1.25 inches of rainfall in 2-hours. In accordance with N.J.A.C. 7:8-5.5, Table 5-4, a one-minute water quality design storm rainfall distribution was utilized for the calculations.

Pursuant to the Stormwater Management Rules, water quality design standards are only applicable where a proposed project results in a net increase of 0.25 acres or more of motor vehicle surface.

The proposed building expansion will replace approximately 0.23 acres of existing motor vehicle surface (stone storage area comprised of soil and aggregate). In addition, the proposed asphalt parking expansion within Drainage Area PDA-4 (refer to Parking Expansion discussion below) will result in an increase of approximately 0.39 acres of motor vehicle surface. Overall, the project will result in a net increase of approximately 0.16 acres of motor vehicle surface. As this increase is below the 0.25-acre threshold, the project does not trigger mandatory compliance with the water quality standards on a project-wide basis.

The site currently contains existing manufactured treatment devices (MTDs) that are not classified as green infrastructure (GI) under the current Stormwater Management Rules. These non-GI MTDs were installed in 2016 and were designed to provide stormwater quality treatment at a 50 percent Total Suspended Solids (TSS) removal rate, consistent with the regulatory standards in effect at the time of their installation.

As part of the proposed improvements, a maintenance plan will be prepared and implemented for the existing MTDs to ensure continued functionality and long-term stormwater quality treatment performance

<u>Building Addition (PDA 1A and 1B)</u>

Existing non-green infrastructure MTD's (2 - Vortechs units, WQ Unit 121A & B and WQ Unit #209) has a capacity to treat 20.20 cfs and was designed to treat 16.76 cfs (total) (Refer to Exhibit 1, Appendix E).

<u>Driveway Widening (PDA 3)</u>

Under the 2016 Holtec Technology Center (HTC) design, the existing non–green infrastructure Manufactured Treatment Device (MTD), Water Quality Unit #103, was designed to treat a flow of 7.66 cubic feet per second (cfs) with a maximum treatment capacity of 10.10 cfs.

Under the proposed design conditions, an additional 0.44 cfs of stormwater runoff will be conveyed through the existing MTD (WQ unit#103), resulting in a total treatment flow of 8.10 cfs (refer to *Exhibit 1, Appendix E*). Based on this analysis, the existing MTD has sufficient available treatment capacity to accommodate the additional flow generated under the proposed conditions.

Therefore, no modification to the existing WQ Unit #103 is required to meet stormwater quality treatment requirements.

<u>Parking Expansion (PDA 4)</u>

Under the 2016 Holtec Technology Center (HTC) design, the existing non-green infrastructure Manufactured Treatment Device (MTD), Water Quality Unit #201, has a treatment capacity of 4.50 cubic feet per second (cfs) and a design treatment flow rate of 3.90 cfs.

Under the proposed design conditions, an additional 2.13 cfs of stormwater runoff will be conveyed through the existing MTD, resulting in a total conveyed flow of 5.30 cfs. This increase in flow is attributable to an additional 0.39 acres of impervious motor vehicle surface associated with the proposed development.

To address the increase in impervious coverage and ensure compliance with stormwater quality requirements, two (2) green infrastructure (GI) Manufactured Treatment Devices, each providing an 80 percent Total Suspended Solids (TSS) removal rate, are proposed to treat runoff generated by the new 0.39 acres of impervious motor vehicle surface. The proposed MTD units, designated MTD-4 and MTD-5, will be installed upstream of existing WQ Unit #201, thereby forming treatment in-series to alleviate hydraulic overloading of the existing MTD

Runoff Quantity

Post-construction runoff hydrographs for the 2, 10 and 100-year have been analyzed as part of stormwater management design. Pursuant to N.J.A.C. 7:8-5.6(b)one of the following peak runoff requirements must be met: (1) demonstrate that the post development hydrograph is less than the pre-development hydrograph at all points during 2, 10 and 100 year storm events; (2) demonstrate through hydrologic and hydraulic analysis that there is no increase, as compared to the pre-construction condition, in the peak runoff rates of stormwater leaving the site for the current and projected two-, 10-, and 100-year storm events, as defined and determined pursuant to N.J.A.C. 7:8-5.7(c) and (d), respectively and that the increased volume or change in timing of stormwater runoff will not increase flood damage at or downstream of the site.; or (3) design stormwater management measures so that the post-construction peak runoff rates for the current and projected two-, 10-, and 100-year storm events, as defined and determined pursuant to N.J.A.C. 7:8-5.7(c) and (d), respectively, are 50, 75, and 80 percent, respectively, of the pre-construction peak runoff rates. The percentages apply only to the post-construction stormwater runoff that is attributable to the portion of the site on which the proposed development or project is to be constructed; (4) In tidal flood hazard areas, stormwater runoff quantity analysis, in accordance with (b)1, 2, and 3 above, is required unless the design engineer demonstrates through hydrologic and hydraulic analysis that the increased volume, change in timing, or increased rate of the stormwater runoff, or any combination of the three will not result in additional flood damage below the point of discharge of the major development. No analysis is required if the stormwater is discharged directly into any ocean, bay, inlet, or the reach of any watercourse between its confluence with an ocean, bay, or inlet and downstream of the first water control structure.

In accordance with N.J.A.C. 7:8-5.6(b)4, the project is located on a tidal waterway and subject to tidal flooding (exceeding the 100-year storm) from the Delaware River. Therefore, quantity reduction analysis is not required as the stormwater discharges directly to the tidal waterway (Delaware River). See Appendices A & B for pre- and post-construction hydrographs.

Table 1 below details the pre-developed vs. post-developed peak runoff rate for the current rainfall precipitation depth and Table 2 below details the pre-developed vs. post-developed peak runoff rate for the projected (year 2100) rainfall precipitation depth to POI-1.

Storm (Year)	Pre-Developed Peak Runoff Rate (cfs)	Post-Developed Peak Runoff Rate (cfs)
2	15.40	24.80
10	25.67	39.18
25	32.71	48.89
100	47.28	68.86

Table 1: Pre-Developed vs. Post-Developed Peak Runoff Rate to POI-1 (Current Rainfall)

Storm (Year)	Pre-Developed Peak Runoff Rate (cfs)	Post-Developed Peak Runoff Rate (cfs)
2	18.38	28.87
10	31.45	46.89
25	42.40	61.81
100	64.96	92.48

Table 2: Pre-Developed vs. Post-Developed Peak Runoff Rate to POI-1 (Projected Rainfall)

9.0 Storm Sewer Design

Storm sewer network design consists of precast concrete structures, and HDPE/RCP pipes. All proposed conveyance systems have been sized to provide capacity for the 25-year storm event. Rainfall intensities are based on NOAA data for City of Camden, NJ (Appendix E). The infrastructure is depicted on sheet CS9002, Post Developed Drainage Area Plan (Appendix F).

10.0 Soil Erosion and Sediment Control

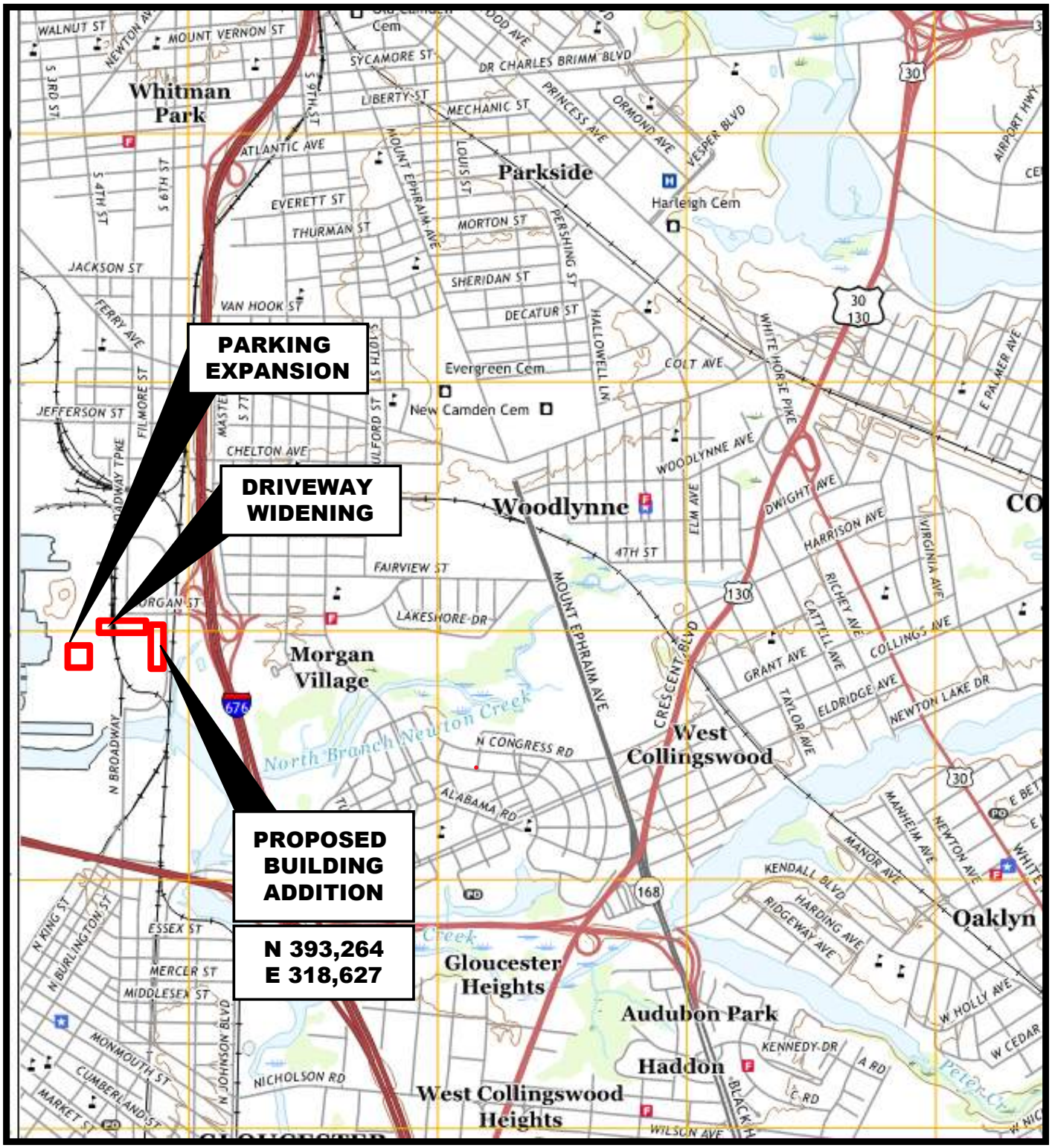
The project will comply with the minimum design and performance standards for erosion control established under the Soil Erosion and Sediment Control Act, N.J.S.A. 4:24-39 et seq. and implementing rules. Anticipated BMP's to be included in the Soil Erosion and Sediment Control Plan will include, structural and non-structural soil erosion BMP's to be implemented during construction, including: minimizing the area of disturbance, placement of silt fencing around the limit of disturbance, temporary soil stockpiles surrounded with silt fencing, temporary vegetative cover standards, inlet filter covers over all existing and proposed stormwater inlets, and an anti-tracking stabilized construction entrance (see Dwg. CS8001). The project will be submitted to the DelAtlantic Conservation District for certification of a Soil Erosion and Sediment Control Plan prior to commencement of construction.

11.0 Conclusion

Pursuant to N.J.A.C. 7:8-5, the proposed stormwater management system has been designed such that:

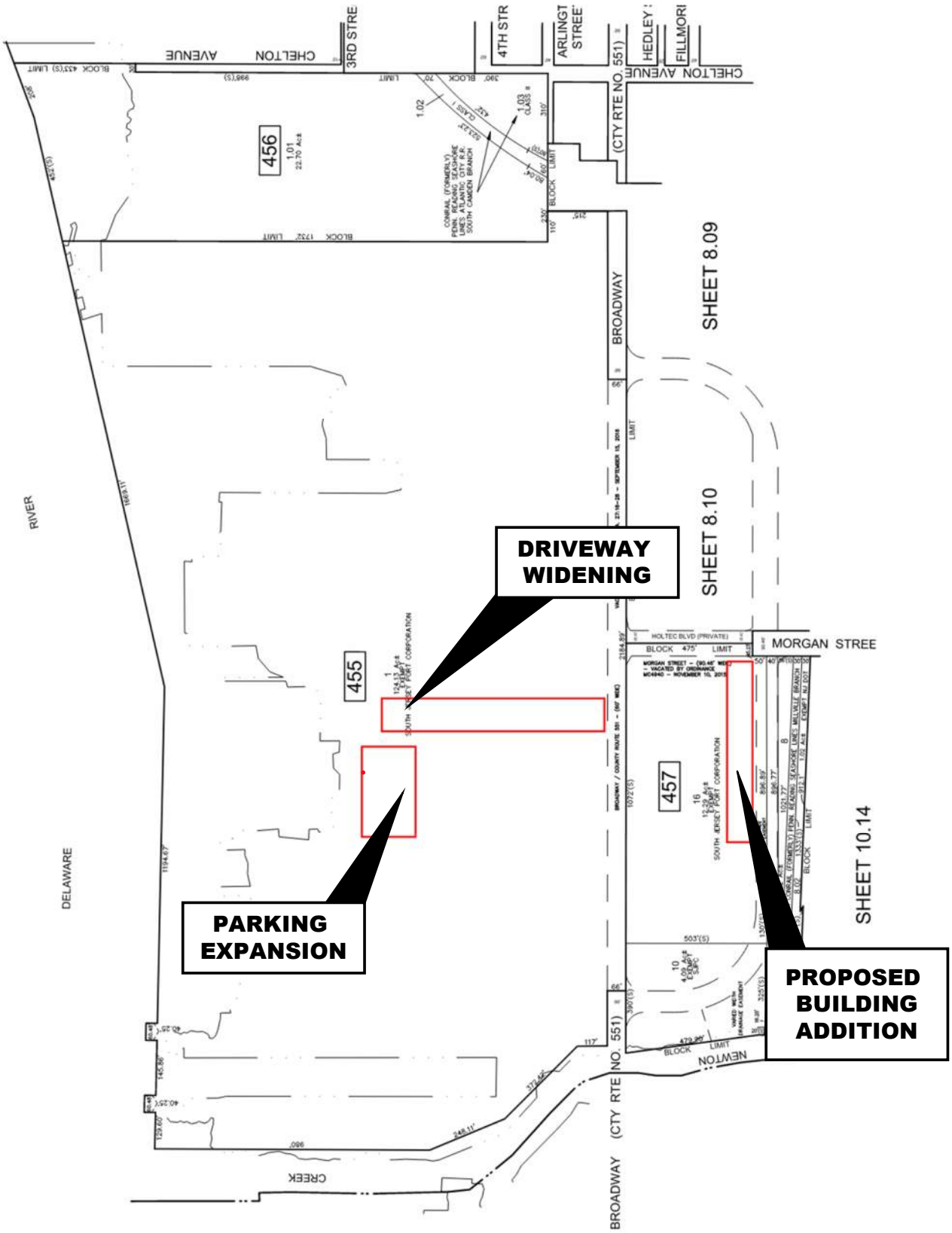
- In accordance with N.J.A.C. 7:8-5.6(b)4, No quantity reduction is required since the stormwater discharges directly to a tidal waterway (Delaware River).
- Water quality measures will be provided utilizing GI MTD for 80% TSS removal, in-series with existing 50% MTD structures to treat proposed impervious areas and continue treatments of the previous redeveloped areas.
- The project is located within an Urban Redevelopment Area. Therefore, pursuant to N.J.A.C. 7:8-5.4(b)2, the groundwater recharge requirement does not apply.

Figures



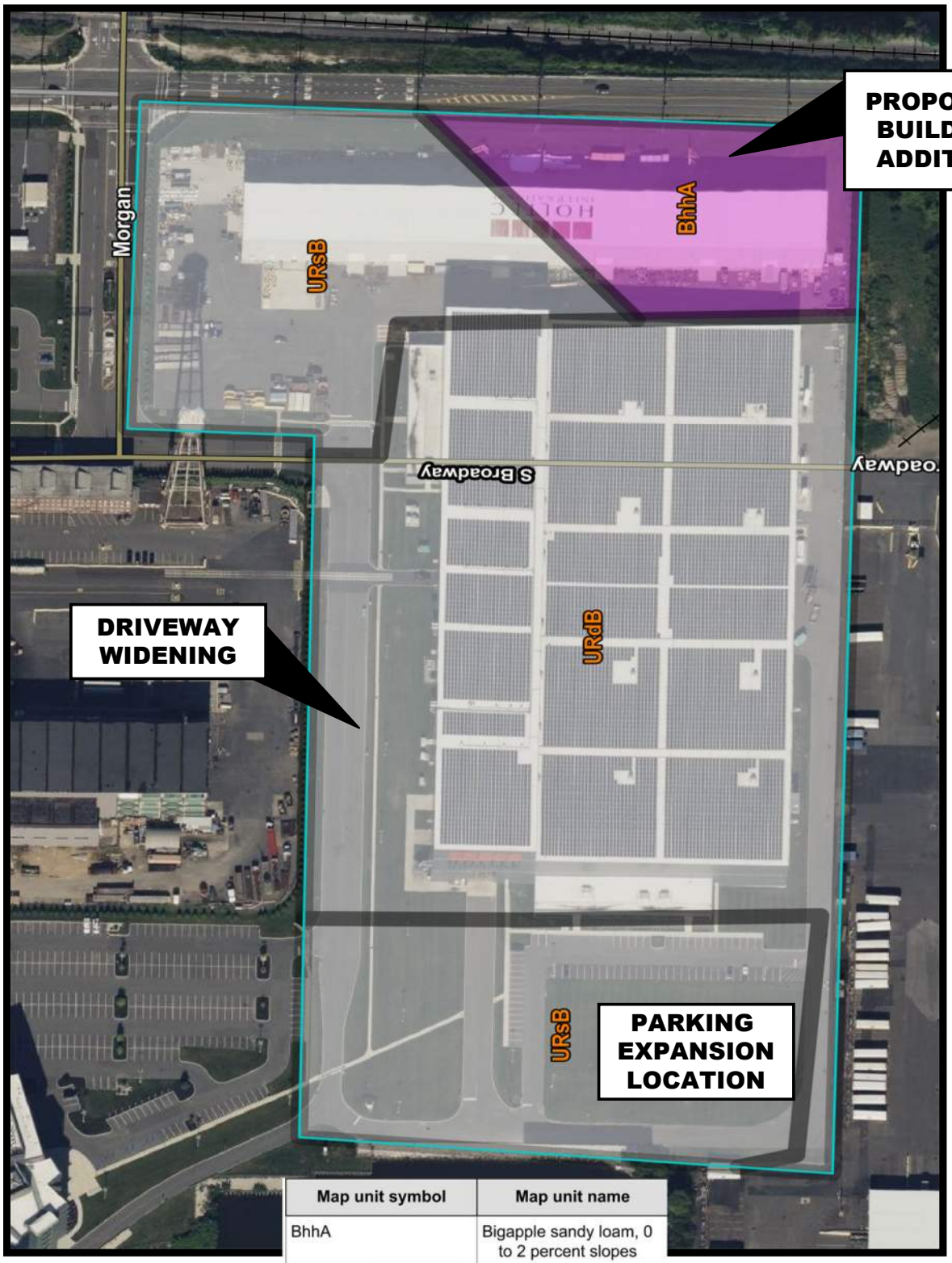
USGS 7.5 Min. Camden Quadrangle, Camden County, New Jersey

Pennoni PENNONI ASSOCIATES INC. 2 AQUARIUM DRIVE, SUITE 320 CAMDEN, NEW JERSEY 08103	Holtec Technology Center Building Expansion BLOCK 455 AND 457, LOTS 1 AND 16 CITY OF CAMDEN, CAMDEN COUNTY NEW JERSEY	
Job No. USATX24001	Scale: 1"=2,000'	Figure 1 –USGS Map



City of Camden, Tax Map Plate 8.12

Pennoni PENNONI ASSOCIATES INC. 2 AQUARIUM DRIVE, SUITE 320 CAMDEN, NEW JERSEY 08103		Holtec Technology Center Building Expansion BLOCK 455 AND 457, LOTS 1 AND 16 CITY OF CAMDEN, CAMDEN COUNTY NEW JERSEY
Job No. USATX24001	Scale: NTS	Figure 2 – Tax Map



Map unit symbol	Map unit name
BhhA	Bigapple sandy loam, 0 to 2 percent slopes
URdB	Urban land, sandy substratum, 0 to 5 percent slopes
URsB	Urban land-Sauken complex, 0 to 5 percent slopes

PENNONI ASSOCIATES INC.
2 AQUARIUM DRIVE, SUITE 320
CAMDEN, NEW JERSEY 08103

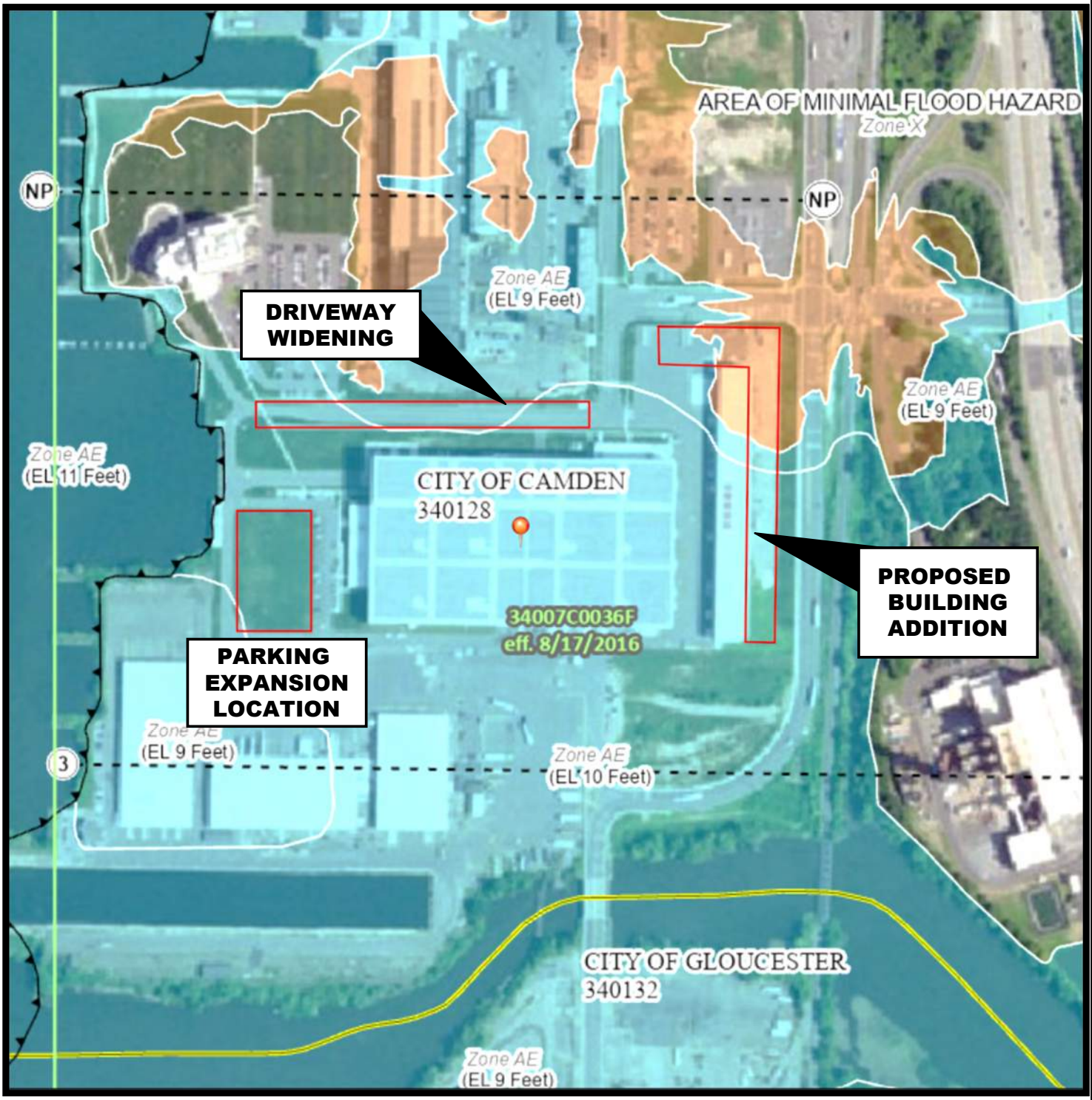
Holtec Technology Center Building Expansion

BLOCK 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY
NEW JERSEY

Job No. USATX24001

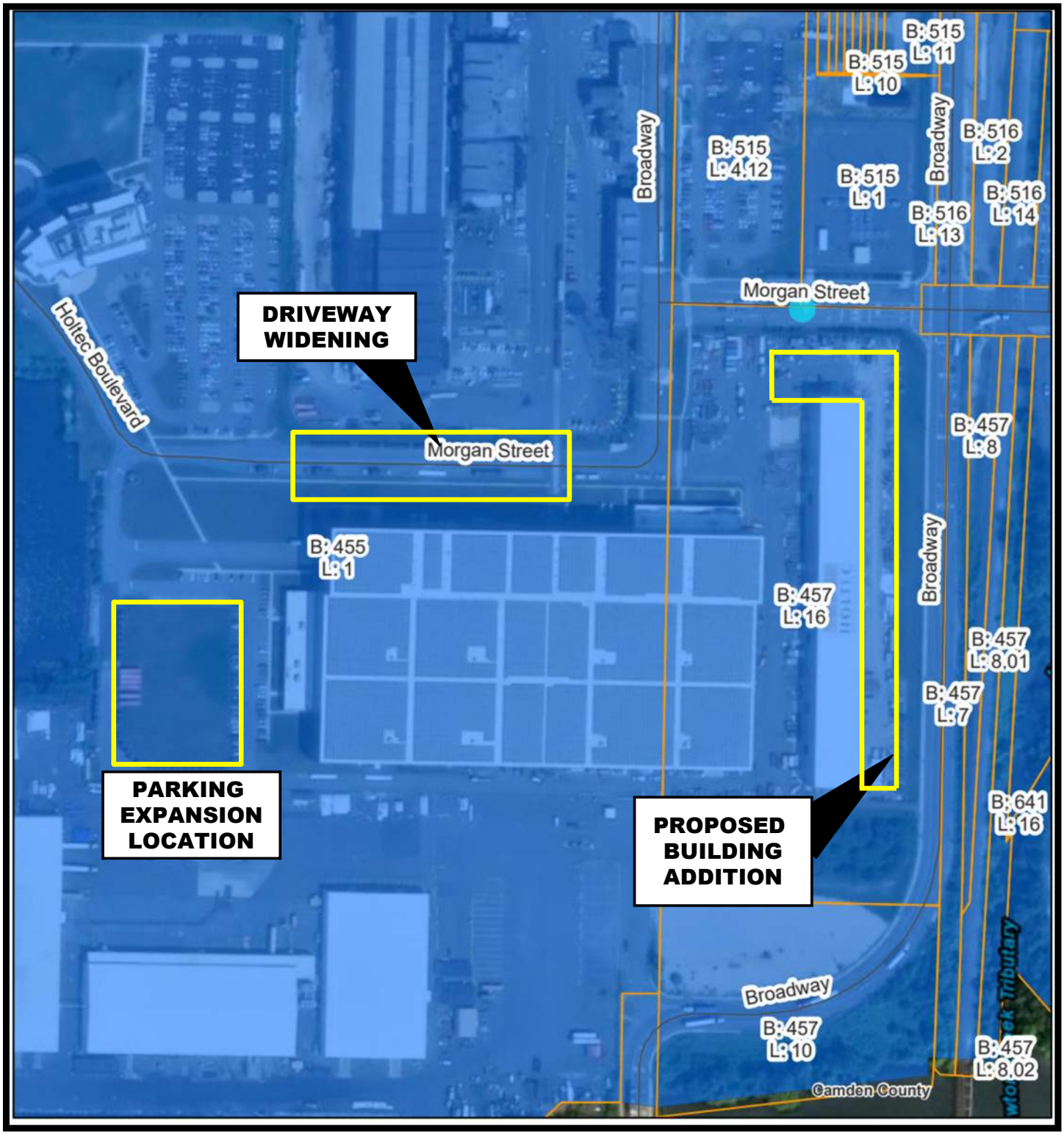
Scale: NTS

Figure 3 –Soils Map



FEMA Map 34007C0036F, Effective 8/17/2016

Pennoni PENNONI ASSOCIATES INC. 2 AQUARIUM DRIVE, SUITE 320 CAMDEN, NEW JERSEY 08103		Holtec Technology Center Building Expansion BLOCK 455 AND 457, LOTS 1 AND 16 CITY OF CAMDEN, CAMDEN COUNTY NEW JERSEY
Job No. USATX24001	Scale: NTS	Figure 4 –FEMA Map

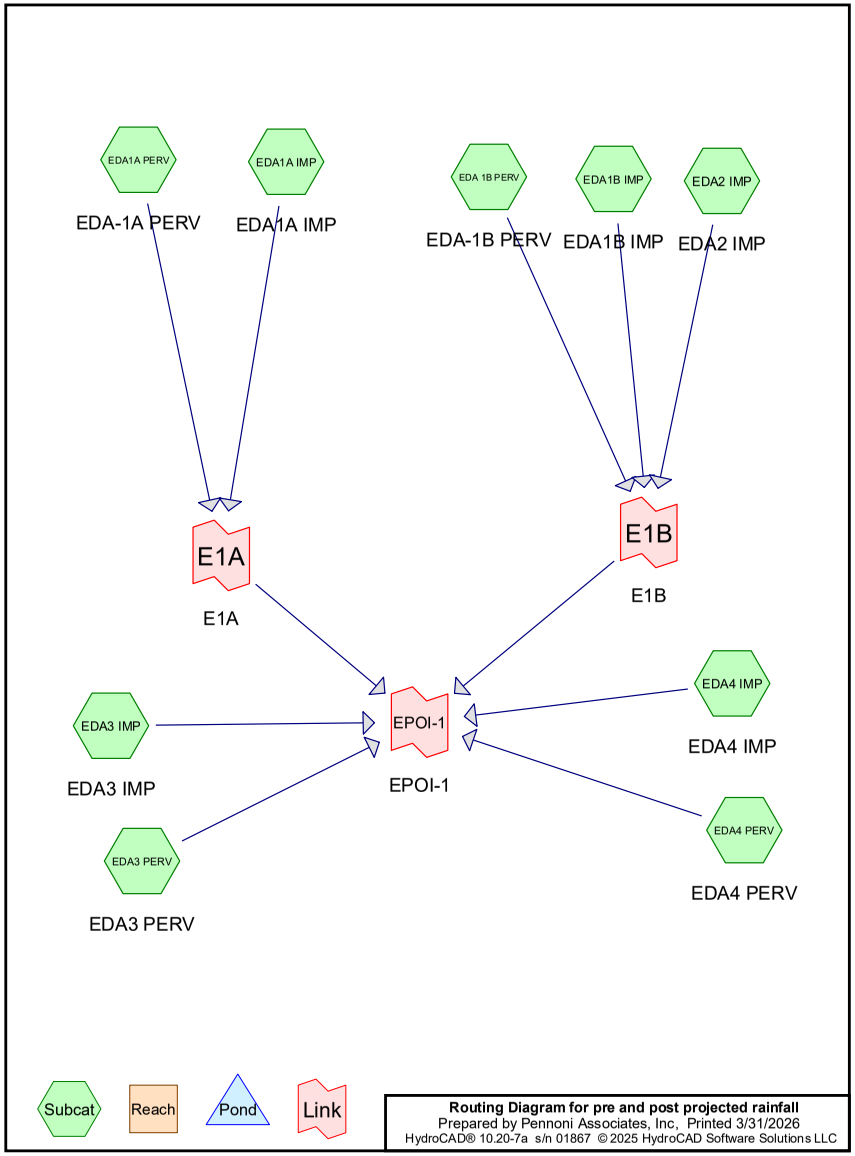


County Boundaries
Road Centerlines
Parcels Data (Block and Lot)
Urban Enterprise Zones

NJDEP GeoWeb

Pennoni PENNONI ASSOCIATES INC. 2 AQUARIUM DRIVE, SUITE 320 CAMDEN, NEW JERSEY 08103	Holtec Technology Center Building Expansion BLOCK 455 AND 457, LOTS 1 AND 16 CITY OF CAMDEN, CAMDEN COUNTY NEW JERSEY	
Job No. USATX24001	Scale: NTS	Figure 5 –Urban Enterprise Zone Map

Appendix A:
Pre-Developed CN & Tc Calculations 2-, 10, 25 & 100-year Storm
Current and Projected Rainfall



Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC	P2 (inches)
1	2YR CURRENT	NOAA 24-hr	C	Default	24.00	1	3.41	2	3.41
2	10YR CURRENT	NOAA 24-hr	C	Default	24.00	1	5.23	2	3.41
3	25YR CURRENT	NOAA 24-hr	C	Default	24.00	1	6.45	2	3.41
4	100YR CURRENT	NOAA 24-hr	C	Default	24.00	1	8.95	2	3.41

EXISTING CURRENT

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.250	39	>75% Grass cover, Good, HSG A (EDA 1B PERV)
2.700	80	>75% Grass cover, Good, HSG D (EDA 1B PERV, EDA1A PERV, EDA3 PERV, EDA4 PERV)
0.940	96	Gravel surface, HSG A (EDA1B IMP)
0.710	96	Gravel surface, HSG D (EDA1A IMP, EDA1B IMP, EDA4 IMP)
0.340	98	Impervious non vehicular (EDA1A IMP, EDA1B IMP, EDA3 IMP)
1.940	98	Impervious vehicular (EDA1A IMP, EDA1B IMP, EDA2 IMP, EDA3 IMP, EDA4 IMP)
6.880	**88**	**TOTAL AREA**

Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
1.190	HSG A	EDA 1B PERV, EDA1B IMP
0.000	HSG B	
0.000	HSG C	
3.410	HSG D	EDA 1B PERV, EDA1A IMP, EDA1A PERV, EDA1B IMP, EDA3 PERV, EDA4 IMP, EDA4 PERV
2.280	Other	EDA1A IMP, EDA1B IMP, EDA2 IMP, EDA3 IMP, EDA4 IMP
6.880		**TOTAL AREA**

Ground Covers (selected nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.250	0.000	0.000	2.700	0.000	2.950	>75% Grass cover, Good	EDA 1B PERV, EDA1A PERV, EDA3 PERV, EDA4 PERV
0.940	0.000	0.000	0.710	0.000	1.650	Gravel surface	EDA1A IMP, EDA1B IMP, EDA4 IMP
0.000	0.000	0.000	0.000	0.340	0.340	Impervious non vehicular	EDA1A IMP, EDA1B IMP, EDA3 IMP
0.000	0.000	0.000	0.000	1.940	1.940	Impervious vehicular	EDA1A IMP, EDA1B IMP, EDA2 IMP, EDA3 IMP, EDA4 IMP
1.190	**0.000**	**0.000**	**3.410**	**2.280**	**6.880**	**TOTAL AREA**	

Pipe Listing (selected nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)	N
1	EDA 1B PERV	0.00	0.00	238.0	0.0024	0.015	0.0	18.0	0.0	
2	EDA 1B PERV	0.00	0.00	92.0	0.0031	0.015	0.0	18.0	0.0	
3	EDA 1B PERV	0.00	0.00	93.0	0.0110	0.015	0.0	18.0	0.0	
4	EDA 1B PERV	0.00	0.00	95.0	0.0075	0.015	0.0	18.0	0.0	
5	EDA 1B PERV	0.00	0.00	76.0	0.0046	0.015	0.0	18.0	0.0	
6	EDA1A IMP	0.00	0.00	211.0	0.0021	0.015	0.0	30.0	0.0	
7	EDA1A IMP	0.00	0.00	185.0	0.0057	0.015	0.0	30.0	0.0	
8	EDA1A PERV	0.00	0.00	211.0	0.0021	0.015	0.0	30.0	0.0	
9	EDA1A PERV	0.00	0.00	185.0	0.0057	0.015	0.0	30.0	0.0	
10	EDA1B IMP	0.00	0.00	238.0	0.0024	0.015	0.0	18.0	0.0	
11	EDA1B IMP	0.00	0.00	92.0	0.0031	0.015	0.0	18.0	0.0	
12	EDA1B IMP	0.00	0.00	93.0	0.0011	0.015	0.0	18.0	0.0	
13	EDA1B IMP	0.00	0.00	95.0	0.0075	0.015	0.0	18.0	0.0	
14	EDA1B IMP	0.00	0.00	76.0	0.0046	0.015	0.0	18.0	0.0	
15	EDA3 IMP	0.00	0.00	172.0	0.0039	0.015	0.0	24.0	0.0	
16	EDA3 IMP	0.00	0.00	27.0	0.0120	0.015	0.0	24.0	0.0	
17	EDA3 IMP	0.00	0.00	439.0	0.0015	0.015	0.0	60.0	0.0	
18	EDA3 PERV	0.00	0.00	42.0	0.0150	0.015	0.0	15.0	0.0	
19	EDA4 PERV	0.00	0.00	100.0	0.0039	0.015	0.0	18.0	0.0	
20	EDA4 PERV	0.00	0.00	100.0	0.0020	0.015	0.0	24.0	0.0	

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment EDA 1B PERV: EDA-1B PERV Runoff Area=0.380 ac 0.00% Impervious Runoff Depth>0.25"
Flow Length=761' Tc=5.5 min CN=53 Runoff=0.03 cfs 0.008 af

Subcatchment EDA1AIMP: EDA1A IMP Runoff Area=1.100 ac 68.18% Impervious Runoff Depth>3.06"
Flow Length=496' Tc=3.2 min CN=97 Runoff=3.84 cfs 0.281 af

Subcatchment EDA1APERV: EDA-1APERV Runoff Area=0.280 ac 0.00% Impervious Runoff Depth>1.56"
Flow Length=496' Tc=3.2 min CN=80 Runoff=0.57 cfs 0.036 af

Subcatchment EDA1B IMP: EDA1B IMP Runoff Area=1.550 ac 19.35% Impervious Runoff Depth>2.95"
Flow Length=787' Tc=6.3 min CN=96 Runoff=4.35 cfs 0.381 af

Subcatchment EDA2 IMP: EDA2 IMP Runoff Area=0.310 ac 100.00% Impervious Runoff Depth>3.17"
Flow Length=351' Tc=2.3 min CN=98 Runoff=1.17 cfs 0.082 af

Subcatchment EDA3 IMP: EDA3 IMP Runoff Area=0.800 ac 100.00% Impervious Runoff Depth>3.17"
Flow Length=804' Tc=4.8 min CN=98 Runoff=2.54 cfs 0.211 af

Subcatchment EDA3 PERV: EDA3 PERV Runoff Area=0.850 ac 0.00% Impervious Runoff Depth>1.56"
Flow Length=131' Tc=3.6 min CN=80 Runoff=1.66 cfs 0.111 af

Subcatchment EDA4 IMP: EDA4 IMP Runoff Area=0.170 ac 70.59% Impervious Runoff Depth>3.06"
Flow Length=188' Tc=1.9 min CN=97 Runoff=0.64 cfs 0.043 af

Subcatchment EDA4 PERV: EDA4 PERV Runoff Area=1.440 ac 0.00% Impervious Runoff Depth>1.55"
Flow Length=415' Tc=15.9 min CN=80 Runoff=1.46 cfs 0.186 af

Link E1A: E1A Inflow=4.40 cfs 0.317 af
Primary=4.40 cfs 0.317 af

Link E1B: E1B Inflow=5.33 cfs 0.471 af
Primary=5.33 cfs 0.471 af

Link EPOI-1: EPOI-1 Inflow=15.40 cfs 1.340 af
Primary=15.40 cfs 1.340 af

Total Runoff Area = 6.880 ac Runoff Volume = 1.340 af Average Runoff Depth = 2.34"
66.86% Pervious = 4.600 ac 33.14% Impervious = 2.280 ac

Summary for Subcatchment EDA 1B PERV: EDA-1B PERV

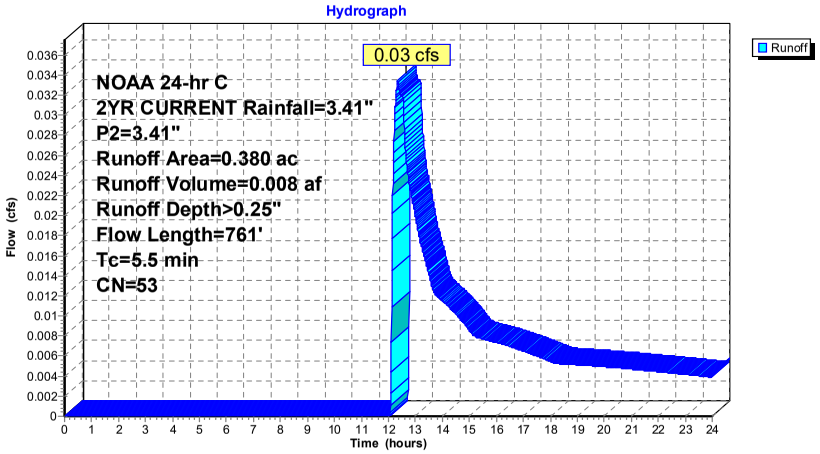
Runoff = 0.03 cfs @ 12.34 hrs, Volume= 0.008 af, Depth> 0.25"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR CURRENT Rainfall=3.41", P2=3.41"

Area (ac)	CN	Description
0.250	39	>75% Grass cover, Good, HSG A
0.130	80	>75% Grass cover, Good, HSG D
0.380	53	Weighted Average
0.380		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	93	0.0100	1.06		**Sheet Flow, Grass** Smooth surfaces n= 0.011 P2= 3.41"
0.8	74	0.0100	1.50		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.3	93	0.0110	5.40	9.55	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
5.5	761	Total			

Subcatchment EDA 1B PERV: EDA-1B PERV



Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.10	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.10	0.00	0.00
0.10	0.00	0.00	0.00	2.70	0.11	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.11	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.11	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.11	0.00	0.00
0.30	0.01	0.00	0.00	2.90	0.12	0.00	0.00
0.35	0.01	0.00	0.00	2.95	0.12	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.12	0.00	0.00
0.45	0.02	0.00	0.00	3.05	0.12	0.00	0.00
0.50	0.02	0.00	0.00	3.10	0.12	0.00	0.00
0.55	0.02	0.00	0.00	3.15	0.13	0.00	0.00
0.60	0.02	0.00	0.00	3.20	0.13	0.00	0.00
0.65	0.02	0.00	0.00	3.25	0.13	0.00	0.00
0.70	0.03	0.00	0.00	3.30	0.13	0.00	0.00
0.75	0.03	0.00	0.00	3.35	0.14	0.00	0.00
0.80	0.03	0.00	0.00	3.40	0.14	0.00	0.00
0.85	0.03	0.00	0.00	3.45	0.14	0.00	0.00
0.90	0.03	0.00	0.00	3.50	0.14	0.00	0.00
0.95	0.04	0.00	0.00	3.55	0.15	0.00	0.00
1.00	0.04	0.00	0.00	3.60	0.15	0.00	0.00
1.05	0.04	0.00	0.00	3.65	0.15	0.00	0.00
1.10	0.04	0.00	0.00	3.70	0.15	0.00	0.00
1.15	0.04	0.00	0.00	3.75	0.15	0.00	0.00
1.20	0.04	0.00	0.00	3.80	0.16	0.00	0.00
1.25	0.05	0.00	0.00	3.85	0.16	0.00	0.00
1.30	0.05	0.00	0.00	3.90	0.16	0.00	0.00
1.35	0.05	0.00	0.00	3.95	0.16	0.00	0.00
1.40	0.05	0.00	0.00	4.00	0.17	0.00	0.00
1.45	0.05	0.00	0.00	4.05	0.17	0.00	0.00
1.50	0.06	0.00	0.00	4.10	0.17	0.00	0.00
1.55	0.06	0.00	0.00	4.15	0.17	0.00	0.00
1.60	0.06	0.00	0.00	4.20	0.18	0.00	0.00
1.65	0.06	0.00	0.00	4.25	0.18	0.00	0.00
1.70	0.06	0.00	0.00	4.30	0.18	0.00	0.00
1.75	0.07	0.00	0.00	4.35	0.18	0.00	0.00
1.80	0.07	0.00	0.00	4.40	0.19	0.00	0.00
1.85	0.07	0.00	0.00	4.45	0.19	0.00	0.00
1.90	0.07	0.00	0.00	4.50	0.19	0.00	0.00
1.95	0.08	0.00	0.00	4.55	0.19	0.00	0.00
2.00	0.08	0.00	0.00	4.60	0.20	0.00	0.00
2.05	0.08	0.00	0.00	4.65	0.20	0.00	0.00
2.10	0.08	0.00	0.00	4.70	0.20	0.00	0.00
2.15	0.08	0.00	0.00	4.75	0.20	0.00	0.00
2.20	0.09	0.00	0.00	4.80	0.21	0.00	0.00
2.25	0.09	0.00	0.00	4.85	0.21	0.00	0.00
2.30	0.09	0.00	0.00	4.90	0.21	0.00	0.00
2.35	0.09	0.00	0.00	4.95	0.21	0.00	0.00
2.40	0.09	0.00	0.00	5.00	0.22	0.00	0.00
2.45	0.10	0.00	0.00	5.05	0.22	0.00	0.00
2.50	0.10	0.00	0.00	5.10	0.22	0.00	0.00
2.55	0.10	0.00	0.00	5.15	0.22	0.00	0.00

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.23	0.00	0.00	7.80	0.39	0.00	0.00
5.25	0.23	0.00	0.00	7.85	0.40	0.00	0.00
5.30	0.23	0.00	0.00	7.90	0.40	0.00	0.00
5.35	0.24	0.00	0.00	7.95	0.40	0.00	0.00
5.40	0.24	0.00	0.00	8.00	0.41	0.00	0.00
5.45	0.24	0.00	0.00	8.05	0.41	0.00	0.00
5.50	0.24	0.00	0.00	8.10	0.42	0.00	0.00
5.55	0.25	0.00	0.00	8.15	0.42	0.00	0.00
5.60	0.25	0.00	0.00	8.20	0.43	0.00	0.00
5.65	0.25	0.00	0.00	8.25	0.43	0.00	0.00
5.70	0.25	0.00	0.00	8.30	0.43	0.00	0.00
5.75	0.26	0.00	0.00	8.35	0.44	0.00	0.00
5.80	0.26	0.00	0.00	8.40	0.44	0.00	0.00
5.85	0.26	0.00	0.00	8.45	0.45	0.00	0.00
5.90	0.26	0.00	0.00	8.50	0.45	0.00	0.00
5.95	0.27	0.00	0.00	8.55	0.46	0.00	0.00
6.00	0.27	0.00	0.00	8.60	0.46	0.00	0.00
6.05	0.27	0.00	0.00	8.65	0.47	0.00	0.00
6.10	0.28	0.00	0.00	8.70	0.47	0.00	0.00
6.15	0.28	0.00	0.00	8.75	0.47	0.00	0.00
6.20	0.28	0.00	0.00	8.80	0.48	0.00	0.00
6.25	0.28	0.00	0.00	8.85	0.48	0.00	0.00
6.30	0.29	0.00	0.00	8.90	0.49	0.00	0.00
6.35	0.29	0.00	0.00	8.95	0.49	0.00	0.00
6.40	0.29	0.00	0.00	9.00	0.50	0.00	0.00
6.45	0.30	0.00	0.00	9.05	0.50	0.00	0.00
6.50	0.30	0.00	0.00	9.10	0.51	0.00	0.00
6.55	0.30	0.00	0.00	9.15	0.51	0.00	0.00
6.60	0.31	0.00	0.00	9.20	0.52	0.00	0.00
6.65	0.31	0.00	0.00	9.25	0.52	0.00	0.00
6.70	0.31	0.00	0.00	9.30	0.53	0.00	0.00
6.75	0.32	0.00	0.00	9.35	0.54	0.00	0.00
6.80	0.32	0.00	0.00	9.40	0.54	0.00	0.00
6.85	0.32	0.00	0.00	9.45	0.55	0.00	0.00
6.90	0.33	0.00	0.00	9.50	0.55	0.00	0.00
6.95	0.33	0.00	0.00	9.55	0.56	0.00	0.00
7.00	0.33	0.00	0.00	9.60	0.57	0.00	0.00
7.05	0.34	0.00	0.00	9.65	0.57	0.00	0.00
7.10	0.34	0.00	0.00	9.70	0.58	0.00	0.00
7.15	0.34	0.00	0.00	9.75	0.59	0.00	0.00
7.20	0.35	0.00	0.00	9.80	0.59	0.00	0.00
7.25	0.35	0.00	0.00	9.85	0.60	0.00	0.00
7.30	0.35	0.00	0.00	9.90	0.61	0.00	0.00
7.35	0.36	0.00	0.00	9.95	0.61	0.00	0.00
7.40	0.36	0.00	0.00	10.00	0.62	0.00	0.00
7.45	0.37	0.00	0.00	10.05	0.63	0.00	0.00
7.50	0.37	0.00	0.00	10.10	0.64	0.00	0.00
7.55	0.37	0.00	0.00	10.15	0.64	0.00	0.00
7.60	0.38	0.00	0.00	10.20	0.65	0.00	0.00
7.65	0.38	0.00	0.00	10.25	0.66	0.00	0.00
7.70	0.38	0.00	0.00	10.30	0.67	0.00	0.00
7.75	0.39	0.00	0.00	10.35	0.68	0.00	0.00

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.69	0.00	0.00	13.00	2.59	0.07	0.02
10.45	0.69	0.00	0.00	13.05	2.61	0.07	0.02
10.50	0.70	0.00	0.00	13.10	2.62	0.07	0.02
10.55	0.71	0.00	0.00	13.15	2.63	0.08	0.02
10.60	0.72	0.00	0.00	13.20	2.64	0.08	0.02
10.65	0.73	0.00	0.00	13.25	2.66	0.08	0.02
10.70	0.74	0.00	0.00	13.30	2.67	0.08	0.02
10.75	0.75	0.00	0.00	13.35	2.68	0.08	0.02
10.80	0.77	0.00	0.00	13.40	2.69	0.09	0.02
10.85	0.78	0.00	0.00	13.45	2.70	0.09	0.01
10.90	0.79	0.00	0.00	13.50	2.71	0.09	0.01
10.95	0.80	0.00	0.00	13.55	2.72	0.09	0.01
11.00	0.82	0.00	0.00	13.60	2.72	0.09	0.01
11.05	0.83	0.00	0.00	13.65	2.73	0.09	0.01
11.10	0.85	0.00	0.00	13.70	2.74	0.10	0.01
11.15	0.87	0.00	0.00	13.75	2.75	0.10	0.01
11.20	0.88	0.00	0.00	13.80	2.76	0.10	0.01
11.25	0.90	0.00	0.00	13.85	2.77	0.10	0.01
11.30	0.92	0.00	0.00	13.90	2.77	0.10	0.01
11.35	0.94	0.00	0.00	13.95	2.78	0.10	0.01
11.40	0.96	0.00	0.00	14.00	2.79	0.10	0.01
11.45	0.99	0.00	0.00	14.05	2.80	0.11	0.01
11.50	1.01	0.00	0.00	14.10	2.80	0.11	0.01
11.55	1.04	0.00	0.00	14.15	2.81	0.11	0.01
11.60	1.08	0.00	0.00	14.20	2.82	0.11	0.01
11.65	1.11	0.00	0.00	14.25	2.82	0.11	0.01
11.70	1.15	0.00	0.00	14.30	2.83	0.11	0.01
11.75	1.20	0.00	0.00	14.35	2.84	0.11	0.01
11.80	1.25	0.00	0.00	14.40	2.84	0.12	0.01
11.85	1.32	0.00	0.00	14.45	2.85	0.12	0.01
11.90	1.39	0.00	0.00	14.50	2.86	0.12	0.01
11.95	1.51	0.00	0.00	14.55	2.86	0.12	0.01
12.00	1.63	0.00	0.00	14.60	2.87	0.12	0.01
12.05	1.82	0.00	0.00	14.65	2.87	0.12	0.01
12.10	2.02	0.01	0.00	14.70	2.88	0.12	0.01
12.15	2.09	0.01	0.02	14.75	2.89	0.12	0.01
12.20	2.16	0.02	0.03	14.80	2.89	0.13	0.01
12.25	2.21	0.02	0.03	14.85	2.90	0.13	0.01
12.30	2.26	0.03	**0.03**	14.90	2.90	0.13	0.01
12.35	2.30	0.03	**0.03**	14.95	2.91	0.13	0.01
12.40	2.33	0.03	0.03	15.00	2.91	0.13	0.01
12.45	2.37	0.04	0.03	15.05	2.92	0.13	0.01
12.50	2.40	0.04	0.03	15.10	2.92	0.13	0.01
12.55	2.42	0.04	0.03	15.15	2.93	0.13	0.01
12.60	2.45	0.05	0.03	15.20	2.93	0.13	0.01
12.65	2.47	0.05	0.03	15.25	2.94	0.13	0.01
12.70	2.49	0.05	0.02	15.30	2.94	0.14	0.01
12.75	2.51	0.06	0.02	15.35	2.94	0.14	0.01
12.80	2.53	0.06	0.02	15.40	2.95	0.14	0.01
12.85	2.54	0.06	0.02	15.45	2.95	0.14	0.01
12.90	2.56	0.06	0.02	15.50	2.96	0.14	0.01
12.95	2.58	0.07	0.02	15.55	2.96	0.14	0.01

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	2.97	0.14	0.01	18.20	3.15	0.19	0.01
15.65	2.97	0.14	0.01	18.25	3.15	0.19	0.01
15.70	2.98	0.14	0.01	18.30	3.16	0.19	0.01
15.75	2.98	0.14	0.01	18.35	3.16	0.19	0.01
15.80	2.98	0.15	0.01	18.40	3.16	0.19	0.01
15.85	2.99	0.15	0.01	18.45	3.16	0.19	0.01
15.90	2.99	0.15	0.01	18.50	3.17	0.19	0.01
15.95	3.00	0.15	0.01	18.55	3.17	0.19	0.01
16.00	3.00	0.15	0.01	18.60	3.17	0.19	0.01
16.05	3.01	0.15	0.01	18.65	3.17	0.19	0.01
16.10	3.01	0.15	0.01	18.70	3.18	0.19	0.01
16.15	3.01	0.15	0.01	18.75	3.18	0.19	0.01
16.20	3.02	0.15	0.01	18.80	3.18	0.19	0.01
16.25	3.02	0.15	0.01	18.85	3.19	0.19	0.01
16.30	3.03	0.15	0.01	18.90	3.19	0.19	0.01
16.35	3.03	0.16	0.01	18.95	3.19	0.20	0.01
16.40	3.03	0.16	0.01	19.00	3.19	0.20	0.01
16.45	3.04	0.16	0.01	19.05	3.20	0.20	0.01
16.50	3.04	0.16	0.01	19.10	3.20	0.20	0.01
16.55	3.04	0.16	0.01	19.15	3.20	0.20	0.01
16.60	3.05	0.16	0.01	19.20	3.20	0.20	0.01
16.65	3.05	0.16	0.01	19.25	3.21	0.20	0.01
16.70	3.06	0.16	0.01	19.30	3.21	0.20	0.01
16.75	3.06	0.16	0.01	19.35	3.21	0.20	0.01
16.80	3.06	0.16	0.01	19.40	3.21	0.20	0.01
16.85	3.07	0.16	0.01	19.45	3.22	0.20	0.01
16.90	3.07	0.17	0.01	19.50	3.22	0.20	0.01
16.95	3.07	0.17	0.01	19.55	3.22	0.20	0.01
17.00	3.08	0.17	0.01	19.60	3.22	0.20	0.00
17.05	3.08	0.17	0.01	19.65	3.23	0.20	0.00
17.10	3.08	0.17	0.01	19.70	3.23	0.21	0.00
17.15	3.09	0.17	0.01	19.75	3.23	0.21	0.00
17.20	3.09	0.17	0.01	19.80	3.23	0.21	0.00
17.25	3.09	0.17	0.01	19.85	3.24	0.21	0.00
17.30	3.10	0.17	0.01	19.90	3.24	0.21	0.00
17.35	3.10	0.17	0.01	19.95	3.24	0.21	0.00
17.40	3.10	0.17	0.01	20.00	3.24	0.21	0.00
17.45	3.11	0.17	0.01	20.05	3.25	0.21	0.00
17.50	3.11	0.18	0.01	20.10	3.25	0.21	0.00
17.55	3.11	0.18	0.01	20.15	3.25	0.21	0.00
17.60	3.12	0.18	0.01	20.20	3.25	0.21	0.00
17.65	3.12	0.18	0.01	20.25	3.26	0.21	0.00
17.70	3.12	0.18	0.01	20.30	3.26	0.21	0.00
17.75	3.13	0.18	0.01	20.35	3.26	0.21	0.00
17.80	3.13	0.18	0.01	20.40	3.26	0.21	0.00
17.85	3.13	0.18	0.01	20.45	3.26	0.21	0.00
17.90	3.13	0.18	0.01	20.50	3.27	0.22	0.00
17.95	3.14	0.18	0.01	20.55	3.27	0.22	0.00
18.00	3.14	0.18	0.01	20.60	3.27	0.22	0.00
18.05	3.14	0.18	0.01	20.65	3.27	0.22	0.00
18.10	3.15	0.18	0.01	20.70	3.28	0.22	0.00
18.15	3.15	0.18	0.01	20.75	3.28	0.22	0.00

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.28	0.22	0.00	23.40	3.39	0.25	0.00
20.85	3.28	0.22	0.00	23.45	3.39	0.25	0.00
20.90	3.29	0.22	0.00	23.50	3.39	0.25	0.00
20.95	3.29	0.22	0.00	23.55	3.39	0.25	0.00
21.00	3.29	0.22	0.00	23.60	3.39	0.25	0.00
21.05	3.29	0.22	0.00	23.65	3.40	0.25	0.00
21.10	3.29	0.22	0.00	23.70	3.40	0.25	0.00
21.15	3.30	0.22	0.00	23.75	3.40	0.25	0.00
21.20	3.30	0.22	0.00	23.80	3.40	0.25	0.00
21.25	3.30	0.22	0.00	23.85	3.40	0.25	0.00
21.30	3.30	0.22	0.00	23.90	3.41	0.25	0.00
21.35	3.31	0.23	0.00	23.95	3.41	0.25	0.00
21.40	3.31	0.23	0.00	24.00	**3.41**	**0.25**	0.00
21.45	3.31	0.23	0.00				
21.50	3.31	0.23	0.00				
21.55	3.31	0.23	0.00				
21.60	3.32	0.23	0.00				
21.65	3.32	0.23	0.00				
21.70	3.32	0.23	0.00				
21.75	3.32	0.23	0.00				
21.80	3.32	0.23	0.00				
21.85	3.33	0.23	0.00				
21.90	3.33	0.23	0.00				
21.95	3.33	0.23	0.00				
22.00	3.33	0.23	0.00				
22.05	3.33	0.23	0.00				
22.10	3.34	0.23	0.00				
22.15	3.34	0.23	0.00				
22.20	3.34	0.24	0.00				
22.25	3.34	0.24	0.00				
22.30	3.35	0.24	0.00				
22.35	3.35	0.24	0.00				
22.40	3.35	0.24	0.00				
22.45	3.35	0.24	0.00				
22.50	3.35	0.24	0.00				
22.55	3.36	0.24	0.00				
22.60	3.36	0.24	0.00				
22.65	3.36	0.24	0.00				
22.70	3.36	0.24	0.00				
22.75	3.36	0.24	0.00				
22.80	3.37	0.24	0.00				
22.85	3.37	0.24	0.00				
22.90	3.37	0.24	0.00				
22.95	3.37	0.24	0.00				
23.00	3.37	0.24	0.00				
23.05	3.37	0.24	0.00				
23.10	3.38	0.25	0.00				
23.15	3.38	0.25	0.00				
23.20	3.38	0.25	0.00				
23.25	3.38	0.25	0.00				
23.30	3.38	0.25	0.00				
23.35	3.39	0.25	0.00				

Summary for Subcatchment EDA1A IMP: EDA1A IMP

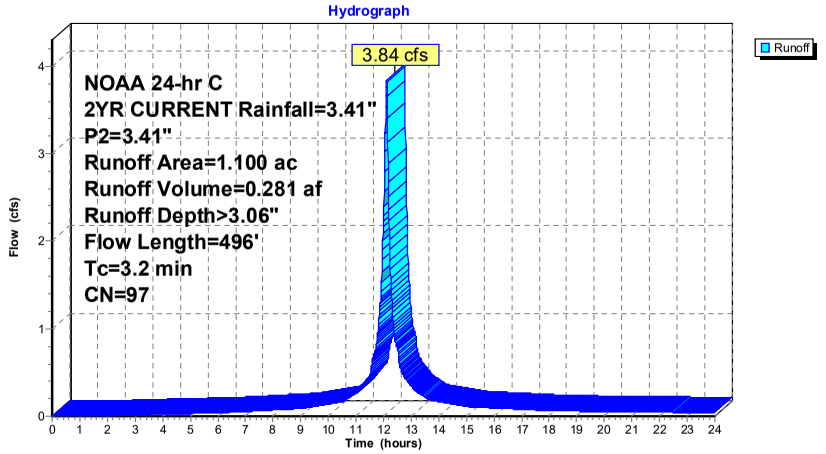
Runoff = 3.84 cfs @ 12.11 hrs, Volume= 0.281 af, Depth> 3.06"
Routed to Link E1A : E1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR CURRENT Rainfall=3.41", P2=3.41"

	Area (ac)	CN	Description
	0.350	96	Gravel surface, HSG D
*	0.570	98	Impervious vehicular
*	0.180	98	Impervious non vehicular
	1.100	97	Weighted Average
	0.350		31.82% Pervious Area
	0.750		68.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	100	0.0100	1.08		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
3.2	496	Total			

Subcatchment EDA1A IMP: EDA1A IMP



Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.10	0.00	0.01
0.05	0.00	0.00	0.00	2.65	0.10	0.01	0.01
0.10	0.00	0.00	0.00	2.70	0.11	0.01	0.01
0.15	0.01	0.00	0.00	2.75	0.11	0.01	0.01
0.20	0.01	0.00	0.00	2.80	0.11	0.01	0.01
0.25	0.01	0.00	0.00	2.85	0.11	0.01	0.01
0.30	0.01	0.00	0.00	2.90	0.12	0.01	0.01
0.35	0.01	0.00	0.00	2.95	0.12	0.01	0.01
0.40	0.02	0.00	0.00	3.00	0.12	0.01	0.01
0.45	0.02	0.00	0.00	3.05	0.12	0.01	0.01
0.50	0.02	0.00	0.00	3.10	0.12	0.01	0.01
0.55	0.02	0.00	0.00	3.15	0.13	0.01	0.02
0.60	0.02	0.00	0.00	3.20	0.13	0.01	0.02
0.65	0.02	0.00	0.00	3.25	0.13	0.01	0.02
0.70	0.03	0.00	0.00	3.30	0.13	0.01	0.02
0.75	0.03	0.00	0.00	3.35	0.14	0.01	0.02
0.80	0.03	0.00	0.00	3.40	0.14	0.02	0.02
0.85	0.03	0.00	0.00	3.45	0.14	0.02	0.02
0.90	0.03	0.00	0.00	3.50	0.14	0.02	0.02
0.95	0.04	0.00	0.00	3.55	0.15	0.02	0.02
1.00	0.04	0.00	0.00	3.60	0.15	0.02	0.02
1.05	0.04	0.00	0.00	3.65	0.15	0.02	0.02
1.10	0.04	0.00	0.00	3.70	0.15	0.02	0.02
1.15	0.04	0.00	0.00	3.75	0.15	0.02	0.02
1.20	0.04	0.00	0.00	3.80	0.16	0.02	0.02
1.25	0.05	0.00	0.00	3.85	0.16	0.02	0.02
1.30	0.05	0.00	0.00	3.90	0.16	0.02	0.02
1.35	0.05	0.00	0.00	3.95	0.16	0.03	0.02
1.40	0.05	0.00	0.00	4.00	0.17	0.03	0.02
1.45	0.05	0.00	0.00	4.05	0.17	0.03	0.02
1.50	0.06	0.00	0.00	4.10	0.17	0.03	0.02
1.55	0.06	0.00	0.00	4.15	0.17	0.03	0.02
1.60	0.06	0.00	0.00	4.20	0.18	0.03	0.02
1.65	0.06	0.00	0.00	4.25	0.18	0.03	0.03
1.70	0.06	0.00	0.00	4.30	0.18	0.03	0.03
1.75	0.07	0.00	0.00	4.35	0.18	0.03	0.03
1.80	0.07	0.00	0.00	4.40	0.19	0.04	0.03
1.85	0.07	0.00	0.00	4.45	0.19	0.04	0.03
1.90	0.07	0.00	0.00	4.50	0.19	0.04	0.03
1.95	0.08	0.00	0.00	4.55	0.19	0.04	0.03
2.00	0.08	0.00	0.00	4.60	0.20	0.04	0.03
2.05	0.08	0.00	0.00	4.65	0.20	0.04	0.03
2.10	0.08	0.00	0.00	4.70	0.20	0.04	0.03
2.15	0.08	0.00	0.00	4.75	0.20	0.04	0.03
2.20	0.09	0.00	0.01	4.80	0.21	0.05	0.03
2.25	0.09	0.00	0.01	4.85	0.21	0.05	0.03
2.30	0.09	0.00	0.01	4.90	0.21	0.05	0.03
2.35	0.09	0.00	0.01	4.95	0.21	0.05	0.03
2.40	0.09	0.00	0.01	5.00	0.22	0.05	0.03
2.45	0.10	0.00	0.01	5.05	0.22	0.05	0.03
2.50	0.10	0.00	0.01	5.10	0.22	0.05	0.03
2.55	0.10	0.00	0.01	5.15	0.22	0.06	0.03

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.23	0.06	0.03	7.80	0.39	0.17	0.07
5.25	0.23	0.06	0.03	7.85	0.40	0.17	0.07
5.30	0.23	0.06	0.03	7.90	0.40	0.18	0.07
5.35	0.24	0.06	0.03	7.95	0.40	0.18	0.07
5.40	0.24	0.06	0.03	8.00	0.41	0.18	0.07
5.45	0.24	0.07	0.03	8.05	0.41	0.19	0.07
5.50	0.24	0.07	0.04	8.10	0.42	0.19	0.07
5.55	0.25	0.07	0.04	8.15	0.42	0.19	0.07
5.60	0.25	0.07	0.04	8.20	0.43	0.20	0.07
5.65	0.25	0.07	0.04	8.25	0.43	0.20	0.07
5.70	0.25	0.07	0.04	8.30	0.43	0.20	0.07
5.75	0.26	0.08	0.04	8.35	0.44	0.21	0.08
5.80	0.26	0.08	0.04	8.40	0.44	0.21	0.08
5.85	0.26	0.08	0.04	8.45	0.45	0.21	0.08
5.90	0.26	0.08	0.04	8.50	0.45	0.22	0.08
5.95	0.27	0.08	0.04	8.55	0.46	0.22	0.08
6.00	0.27	0.08	0.04	8.60	0.46	0.22	0.08
6.05	0.27	0.09	0.04	8.65	0.47	0.23	0.08
6.10	0.28	0.09	0.04	8.70	0.47	0.23	0.08
6.15	0.28	0.09	0.04	8.75	0.47	0.24	0.08
6.20	0.28	0.09	0.04	8.80	0.48	0.24	0.08
6.25	0.28	0.09	0.04	8.85	0.48	0.24	0.08
6.30	0.29	0.10	0.04	8.90	0.49	0.25	0.09
6.35	0.29	0.10	0.04	8.95	0.49	0.25	0.09
6.40	0.29	0.10	0.04	9.00	0.50	0.26	0.09
6.45	0.30	0.10	0.05	9.05	0.50	0.26	0.09
6.50	0.30	0.10	0.05	9.10	0.51	0.26	0.09
6.55	0.30	0.11	0.05	9.15	0.51	0.27	0.09
6.60	0.31	0.11	0.05	9.20	0.52	0.27	0.10
6.65	0.31	0.11	0.05	9.25	0.52	0.28	0.10
6.70	0.31	0.11	0.05	9.30	0.53	0.28	0.10
6.75	0.32	0.11	0.05	9.35	0.54	0.29	0.10
6.80	0.32	0.12	0.05	9.40	0.54	0.29	0.11
6.85	0.32	0.12	0.05	9.45	0.55	0.30	0.11
6.90	0.33	0.12	0.05	9.50	0.55	0.30	0.11
6.95	0.33	0.12	0.05	9.55	0.56	0.31	0.12
7.00	0.33	0.13	0.05	9.60	0.57	0.31	0.12
7.05	0.34	0.13	0.05	9.65	0.57	0.32	0.12
7.10	0.34	0.13	0.06	9.70	0.58	0.32	0.12
7.15	0.34	0.13	0.06	9.75	0.59	0.33	0.13
7.20	0.35	0.14	0.06	9.80	0.59	0.34	0.13
7.25	0.35	0.14	0.06	9.85	0.60	0.34	0.13
7.30	0.35	0.14	0.06	9.90	0.61	0.35	0.13
7.35	0.36	0.14	0.06	9.95	0.61	0.35	0.14
7.40	0.36	0.15	0.06	10.00	0.62	0.36	0.14
7.45	0.37	0.15	0.06	10.05	0.63	0.37	0.14
7.50	0.37	0.15	0.06	10.10	0.64	0.37	0.15
7.55	0.37	0.16	0.06	10.15	0.64	0.38	0.15
7.60	0.38	0.16	0.06	10.20	0.65	0.39	0.15
7.65	0.38	0.16	0.06	10.25	0.66	0.39	0.15
7.70	0.38	0.16	0.06	10.30	0.67	0.40	0.16
7.75	0.39	0.17	0.07	10.35	0.68	0.41	0.16

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.69	0.42	0.16	13.00	2.59	2.25	0.35
10.45	0.69	0.42	0.17	13.05	2.61	2.27	0.33
10.50	0.70	0.43	0.17	13.10	2.62	2.28	0.31
10.55	0.71	0.44	0.18	13.15	2.63	2.29	0.29
10.60	0.72	0.45	0.18	13.20	2.64	2.31	0.28
10.65	0.73	0.46	0.20	13.25	2.66	2.32	0.27
10.70	0.74	0.47	0.20	13.30	2.67	2.33	0.26
10.75	0.75	0.48	0.22	13.35	2.68	2.34	0.25
10.80	0.77	0.49	0.23	13.40	2.69	2.35	0.24
10.85	0.78	0.50	0.24	13.45	2.70	2.36	0.23
10.90	0.79	0.51	0.25	13.50	2.71	2.37	0.22
10.95	0.80	0.52	0.26	13.55	2.72	2.38	0.21
11.00	0.82	0.54	0.27	13.60	2.72	2.39	0.20
11.05	0.83	0.55	0.28	13.65	2.73	2.39	0.19
11.10	0.85	0.57	0.30	13.70	2.74	2.40	0.19
11.15	0.87	0.58	0.32	13.75	2.75	2.41	0.18
11.20	0.88	0.60	0.34	13.80	2.76	2.42	0.18
11.25	0.90	0.61	0.36	13.85	2.77	2.43	0.18
11.30	0.92	0.63	0.38	13.90	2.77	2.43	0.17
11.35	0.94	0.65	0.40	13.95	2.78	2.44	0.17
11.40	0.96	0.67	0.42	14.00	2.79	2.45	0.17
11.45	0.99	0.69	0.44	14.05	2.80	2.46	0.17
11.50	1.01	0.71	0.45	14.10	2.80	2.46	0.16
11.55	1.04	0.75	0.55	14.15	2.81	2.47	0.16
11.60	1.08	0.78	0.65	14.20	2.82	2.48	0.16
11.65	1.11	0.81	0.70	14.25	2.82	2.48	0.15
11.70	1.15	0.85	0.74	14.30	2.83	2.49	0.15
11.75	1.20	0.89	0.85	14.35	2.84	2.50	0.15
11.80	1.25	0.94	0.97	14.40	2.84	2.50	0.15
11.85	1.32	1.01	1.16	14.45	2.85	2.51	0.14
11.90	1.39	1.07	1.34	14.50	2.86	2.52	0.14
11.95	1.51	1.19	1.79	14.55	2.86	2.52	0.14
12.00	1.63	1.31	2.23	14.60	2.87	2.53	0.13
12.05	1.82	1.50	3.03	14.65	2.87	2.53	0.13
12.10	2.02	1.69	**3.76**	14.70	2.88	2.54	0.13
12.15	2.09	1.76	**3.12**	14.75	2.89	2.55	0.13
12.20	2.16	1.83	2.23	14.80	2.89	2.55	0.12
12.25	2.21	1.88	1.67	14.85	2.90	2.56	0.12
12.30	2.26	1.93	1.32	14.90	2.90	2.56	0.12
12.35	2.30	1.96	1.07	14.95	2.91	2.57	0.11
12.40	2.33	2.00	0.91	15.00	2.91	2.57	0.11
12.45	2.37	2.03	0.82	15.05	2.92	2.58	0.11
12.50	2.40	2.07	0.78	15.10	2.92	2.58	0.11
12.55	2.42	2.09	0.67	15.15	2.93	2.59	0.11
12.60	2.45	2.11	0.57	15.20	2.93	2.59	0.10
12.65	2.47	2.13	0.51	15.25	2.94	2.59	0.10
12.70	2.49	2.15	0.48	15.30	2.94	2.60	0.10
12.75	2.51	2.17	0.45	15.35	2.94	2.60	0.10
12.80	2.53	2.19	0.43	15.40	2.95	2.61	0.10
12.85	2.54	2.21	0.41	15.45	2.95	2.61	0.10
12.90	2.56	2.22	0.39	15.50	2.96	2.62	0.10
12.95	2.58	2.24	0.37	15.55	2.96	2.62	0.10

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	2.97	2.63	0.10	18.20	3.15	2.81	0.06
15.65	2.97	2.63	0.10	18.25	3.15	2.81	0.06
15.70	2.98	2.63	0.10	18.30	3.16	2.81	0.06
15.75	2.98	2.64	0.10	18.35	3.16	2.82	0.06
15.80	2.98	2.64	0.09	18.40	3.16	2.82	0.06
15.85	2.99	2.65	0.09	18.45	3.16	2.82	0.06
15.90	2.99	2.65	0.09	18.50	3.17	2.82	0.06
15.95	3.00	2.66	0.09	18.55	3.17	2.83	0.06
16.00	3.00	2.66	0.09	18.60	3.17	2.83	0.06
16.05	3.01	2.66	0.09	18.65	3.17	2.83	0.06
16.10	3.01	2.67	0.09	18.70	3.18	2.83	0.06
16.15	3.01	2.67	0.09	18.75	3.18	2.84	0.06
16.20	3.02	2.68	0.09	18.80	3.18	2.84	0.06
16.25	3.02	2.68	0.09	18.85	3.19	2.84	0.06
16.30	3.03	2.68	0.09	18.90	3.19	2.84	0.06
16.35	3.03	2.69	0.09	18.95	3.19	2.85	0.06
16.40	3.03	2.69	0.09	19.00	3.19	2.85	0.06
16.45	3.04	2.70	0.09	19.05	3.20	2.85	0.06
16.50	3.04	2.70	0.08	19.10	3.20	2.85	0.06
16.55	3.04	2.70	0.08	19.15	3.20	2.86	0.06
16.60	3.05	2.71	0.08	19.20	3.20	2.86	0.06
16.65	3.05	2.71	0.08	19.25	3.21	2.86	0.06
16.70	3.06	2.71	0.08	19.30	3.21	2.87	0.06
16.75	3.06	2.72	0.08	19.35	3.21	2.87	0.06
16.80	3.06	2.72	0.08	19.40	3.21	2.87	0.06
16.85	3.07	2.72	0.08	19.45	3.22	2.87	0.06
16.90	3.07	2.73	0.08	19.50	3.22	2.87	0.06
16.95	3.07	2.73	0.08	19.55	3.22	2.88	0.06
17.00	3.08	2.74	0.08	19.60	3.22	2.88	0.05
17.05	3.08	2.74	0.08	19.65	3.23	2.88	0.05
17.10	3.08	2.74	0.08	19.70	3.23	2.88	0.05
17.15	3.09	2.75	0.08	19.75	3.23	2.89	0.05
17.20	3.09	2.75	0.07	19.80	3.23	2.89	0.05
17.25	3.09	2.75	0.07	19.85	3.24	2.89	0.05
17.30	3.10	2.75	0.07	19.90	3.24	2.89	0.05
17.35	3.10	2.76	0.07	19.95	3.24	2.90	0.05
17.40	3.10	2.76	0.07	20.00	3.24	2.90	0.05
17.45	3.11	2.76	0.07	20.05	3.25	2.90	0.05
17.50	3.11	2.77	0.07	20.10	3.25	2.90	0.05
17.55	3.11	2.77	0.07	20.15	3.25	2.91	0.05
17.60	3.12	2.77	0.07	20.20	3.25	2.91	0.05
17.65	3.12	2.78	0.07	20.25	3.26	2.91	0.05
17.70	3.12	2.78	0.07	20.30	3.26	2.91	0.05
17.75	3.13	2.78	0.07	20.35	3.26	2.92	0.05
17.80	3.13	2.79	0.07	20.40	3.26	2.92	0.05
17.85	3.13	2.79	0.06	20.45	3.26	2.92	0.05
17.90	3.13	2.79	0.06	20.50	3.27	2.92	0.05
17.95	3.14	2.79	0.06	20.55	3.27	2.93	0.05
18.00	3.14	2.80	0.06	20.60	3.27	2.93	0.05
18.05	3.14	2.80	0.06	20.65	3.27	2.93	0.05
18.10	3.15	2.80	0.06	20.70	3.28	2.93	0.05
18.15	3.15	2.81	0.06	20.75	3.28	2.93	0.05

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.28	2.94	0.05	23.40	3.39	3.04	0.04
20.85	3.28	2.94	0.05	23.45	3.39	3.04	0.04
20.90	3.29	2.94	0.05	23.50	3.39	3.05	0.04
20.95	3.29	2.94	0.05	23.55	3.39	3.05	0.04
21.00	3.29	2.95	0.05	23.60	3.39	3.05	0.04
21.05	3.29	2.95	0.05	23.65	3.40	3.05	0.04
21.10	3.29	2.95	0.05	23.70	3.40	3.05	0.04
21.15	3.30	2.95	0.05	23.75	3.40	3.06	0.04
21.20	3.30	2.95	0.05	23.80	3.40	3.06	0.04
21.25	3.30	2.96	0.05	23.85	3.40	3.06	0.04
21.30	3.30	2.96	0.05	23.90	3.41	3.06	0.04
21.35	3.31	2.96	0.05	23.95	3.41	3.06	0.04
21.40	3.31	2.96	0.05	24.00	**3.41**	**3.07**	0.05
21.45	3.31	2.97	0.05				
21.50	3.31	2.97	0.05				
21.55	3.31	2.97	0.05				
21.60	3.32	2.97	0.05				
21.65	3.32	2.97	0.05				
21.70	3.32	2.98	0.05				
21.75	3.32	2.98	0.05				
21.80	3.32	2.98	0.05				
21.85	3.33	2.98	0.05				
21.90	3.33	2.98	0.05				
21.95	3.33	2.99	0.05				
22.00	3.33	2.99	0.05				
22.05	3.33	2.99	0.05				
22.10	3.34	2.99	0.05				
22.15	3.34	2.99	0.05				
22.20	3.34	3.00	0.05				
22.25	3.34	3.00	0.05				
22.30	3.35	3.00	0.04				
22.35	3.35	3.00	0.04				
22.40	3.35	3.00	0.04				
22.45	3.35	3.01	0.04				
22.50	3.35	3.01	0.04				
22.55	3.36	3.01	0.04				
22.60	3.36	3.01	0.04				
22.65	3.36	3.01	0.04				
22.70	3.36	3.02	0.04				
22.75	3.36	3.02	0.04				
22.80	3.37	3.02	0.04				
22.85	3.37	3.02	0.04				
22.90	3.37	3.02	0.04				
22.95	3.37	3.03	0.04				
23.00	3.37	3.03	0.04				
23.05	3.37	3.03	0.04				
23.10	3.38	3.03	0.04				
23.15	3.38	3.03	0.04				
23.20	3.38	3.04	0.04				
23.25	3.38	3.04	0.04				
23.30	3.38	3.04	0.04				
23.35	3.39	3.04	0.04				

Summary for Subcatchment EDA1A PERV: EDA-1A PERV

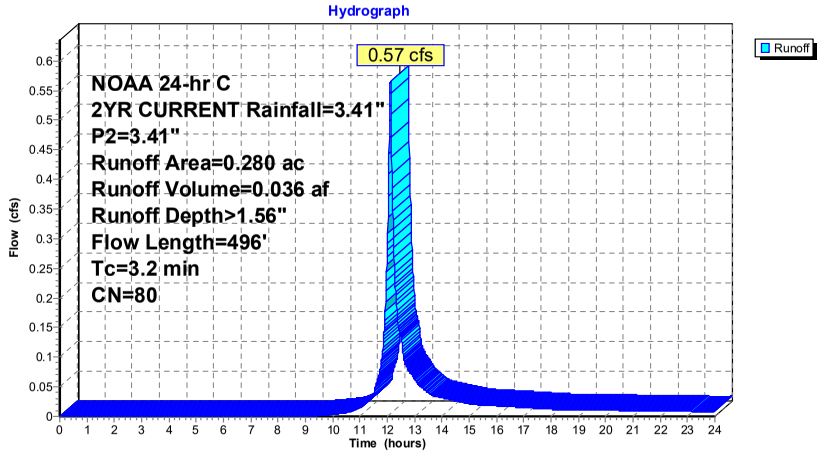
Runoff = 0.57 cfs @ 12.12 hrs, Volume= 0.036 af, Depth> 1.56"
Routed to Link E1A : E1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR CURRENT Rainfall=3.41", P2=3.41"

Area (ac)	CN	Description
0.280	80	>75% Grass cover, Good, HSG D
0.280		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	100	0.0100	1.08		**Sheet Flow, paved** Smooth surfaces n= 0.011 P2= 3.41"
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP-2 Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
3.2	496	Total			

Subcatchment EDA1A PERV: EDA-1A PERV



Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.10	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.10	0.00	0.00
0.10	0.00	0.00	0.00	2.70	0.11	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.11	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.11	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.11	0.00	0.00
0.30	0.01	0.00	0.00	2.90	0.12	0.00	0.00
0.35	0.01	0.00	0.00	2.95	0.12	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.12	0.00	0.00
0.45	0.02	0.00	0.00	3.05	0.12	0.00	0.00
0.50	0.02	0.00	0.00	3.10	0.12	0.00	0.00
0.55	0.02	0.00	0.00	3.15	0.13	0.00	0.00
0.60	0.02	0.00	0.00	3.20	0.13	0.00	0.00
0.65	0.02	0.00	0.00	3.25	0.13	0.00	0.00
0.70	0.03	0.00	0.00	3.30	0.13	0.00	0.00
0.75	0.03	0.00	0.00	3.35	0.14	0.00	0.00
0.80	0.03	0.00	0.00	3.40	0.14	0.00	0.00
0.85	0.03	0.00	0.00	3.45	0.14	0.00	0.00
0.90	0.03	0.00	0.00	3.50	0.14	0.00	0.00
0.95	0.04	0.00	0.00	3.55	0.15	0.00	0.00
1.00	0.04	0.00	0.00	3.60	0.15	0.00	0.00
1.05	0.04	0.00	0.00	3.65	0.15	0.00	0.00
1.10	0.04	0.00	0.00	3.70	0.15	0.00	0.00
1.15	0.04	0.00	0.00	3.75	0.15	0.00	0.00
1.20	0.04	0.00	0.00	3.80	0.16	0.00	0.00
1.25	0.05	0.00	0.00	3.85	0.16	0.00	0.00
1.30	0.05	0.00	0.00	3.90	0.16	0.00	0.00
1.35	0.05	0.00	0.00	3.95	0.16	0.00	0.00
1.40	0.05	0.00	0.00	4.00	0.17	0.00	0.00
1.45	0.05	0.00	0.00	4.05	0.17	0.00	0.00
1.50	0.06	0.00	0.00	4.10	0.17	0.00	0.00
1.55	0.06	0.00	0.00	4.15	0.17	0.00	0.00
1.60	0.06	0.00	0.00	4.20	0.18	0.00	0.00
1.65	0.06	0.00	0.00	4.25	0.18	0.00	0.00
1.70	0.06	0.00	0.00	4.30	0.18	0.00	0.00
1.75	0.07	0.00	0.00	4.35	0.18	0.00	0.00
1.80	0.07	0.00	0.00	4.40	0.19	0.00	0.00
1.85	0.07	0.00	0.00	4.45	0.19	0.00	0.00
1.90	0.07	0.00	0.00	4.50	0.19	0.00	0.00
1.95	0.08	0.00	0.00	4.55	0.19	0.00	0.00
2.00	0.08	0.00	0.00	4.60	0.20	0.00	0.00
2.05	0.08	0.00	0.00	4.65	0.20	0.00	0.00
2.10	0.08	0.00	0.00	4.70	0.20	0.00	0.00
2.15	0.08	0.00	0.00	4.75	0.20	0.00	0.00
2.20	0.09	0.00	0.00	4.80	0.21	0.00	0.00
2.25	0.09	0.00	0.00	4.85	0.21	0.00	0.00
2.30	0.09	0.00	0.00	4.90	0.21	0.00	0.00
2.35	0.09	0.00	0.00	4.95	0.21	0.00	0.00
2.40	0.09	0.00	0.00	5.00	0.22	0.00	0.00
2.45	0.10	0.00	0.00	5.05	0.22	0.00	0.00
2.50	0.10	0.00	0.00	5.10	0.22	0.00	0.00
2.55	0.10	0.00	0.00	5.15	0.22	0.00	0.00

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.23	0.00	0.00	7.80	0.39	0.00	0.00
5.25	0.23	0.00	0.00	7.85	0.40	0.00	0.00
5.30	0.23	0.00	0.00	7.90	0.40	0.00	0.00
5.35	0.24	0.00	0.00	7.95	0.40	0.00	0.00
5.40	0.24	0.00	0.00	8.00	0.41	0.00	0.00
5.45	0.24	0.00	0.00	8.05	0.41	0.00	0.00
5.50	0.24	0.00	0.00	8.10	0.42	0.00	0.00
5.55	0.25	0.00	0.00	8.15	0.42	0.00	0.00
5.60	0.25	0.00	0.00	8.20	0.43	0.00	0.00
5.65	0.25	0.00	0.00	8.25	0.43	0.00	0.00
5.70	0.25	0.00	0.00	8.30	0.43	0.00	0.00
5.75	0.26	0.00	0.00	8.35	0.44	0.00	0.00
5.80	0.26	0.00	0.00	8.40	0.44	0.00	0.00
5.85	0.26	0.00	0.00	8.45	0.45	0.00	0.00
5.90	0.26	0.00	0.00	8.50	0.45	0.00	0.00
5.95	0.27	0.00	0.00	8.55	0.46	0.00	0.00
6.00	0.27	0.00	0.00	8.60	0.46	0.00	0.00
6.05	0.27	0.00	0.00	8.65	0.47	0.00	0.00
6.10	0.28	0.00	0.00	8.70	0.47	0.00	0.00
6.15	0.28	0.00	0.00	8.75	0.47	0.00	0.00
6.20	0.28	0.00	0.00	8.80	0.48	0.00	0.00
6.25	0.28	0.00	0.00	8.85	0.48	0.00	0.00
6.30	0.29	0.00	0.00	8.90	0.49	0.00	0.00
6.35	0.29	0.00	0.00	8.95	0.49	0.00	0.00
6.40	0.29	0.00	0.00	9.00	0.50	0.00	0.00
6.45	0.30	0.00	0.00	9.05	0.50	0.00	0.00
6.50	0.30	0.00	0.00	9.10	0.51	0.00	0.00
6.55	0.30	0.00	0.00	9.15	0.51	0.00	0.00
6.60	0.31	0.00	0.00	9.20	0.52	0.00	0.00
6.65	0.31	0.00	0.00	9.25	0.52	0.00	0.00
6.70	0.31	0.00	0.00	9.30	0.53	0.00	0.00
6.75	0.32	0.00	0.00	9.35	0.54	0.00	0.00
6.80	0.32	0.00	0.00	9.40	0.54	0.00	0.00
6.85	0.32	0.00	0.00	9.45	0.55	0.00	0.00
6.90	0.33	0.00	0.00	9.50	0.55	0.00	0.00
6.95	0.33	0.00	0.00	9.55	0.56	0.00	0.00
7.00	0.33	0.00	0.00	9.60	0.57	0.00	0.00
7.05	0.34	0.00	0.00	9.65	0.57	0.00	0.00
7.10	0.34	0.00	0.00	9.70	0.58	0.00	0.00
7.15	0.34	0.00	0.00	9.75	0.59	0.00	0.00
7.20	0.35	0.00	0.00	9.80	0.59	0.00	0.00
7.25	0.35	0.00	0.00	9.85	0.60	0.00	0.00
7.30	0.35	0.00	0.00	9.90	0.61	0.00	0.00
7.35	0.36	0.00	0.00	9.95	0.61	0.01	0.00
7.40	0.36	0.00	0.00	10.00	0.62	0.01	0.00
7.45	0.37	0.00	0.00	10.05	0.63	0.01	0.00
7.50	0.37	0.00	0.00	10.10	0.64	0.01	0.00
7.55	0.37	0.00	0.00	10.15	0.64	0.01	0.00
7.60	0.38	0.00	0.00	10.20	0.65	0.01	0.00
7.65	0.38	0.00	0.00	10.25	0.66	0.01	0.00
7.70	0.38	0.00	0.00	10.30	0.67	0.01	0.01
7.75	0.39	0.00	0.00	10.35	0.68	0.01	0.01

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.69	0.01	0.01	13.00	2.59	0.95	0.06
10.45	0.69	0.01	0.01	13.05	2.61	0.96	0.06
10.50	0.70	0.02	0.01	13.10	2.62	0.97	0.06
10.55	0.71	0.02	0.01	13.15	2.63	0.98	0.05
10.60	0.72	0.02	0.01	13.20	2.64	0.99	0.05
10.65	0.73	0.02	0.01	13.25	2.66	1.00	0.05
10.70	0.74	0.02	0.01	13.30	2.67	1.01	0.05
10.75	0.75	0.02	0.01	13.35	2.68	1.01	0.05
10.80	0.77	0.03	0.01	13.40	2.69	1.02	0.04
10.85	0.78	0.03	0.01	13.45	2.70	1.03	0.04
10.90	0.79	0.03	0.01	13.50	2.71	1.03	0.04
10.95	0.80	0.03	0.01	13.55	2.72	1.04	0.04
11.00	0.82	0.04	0.01	13.60	2.72	1.05	0.04
11.05	0.83	0.04	0.02	13.65	2.73	1.05	0.04
11.10	0.85	0.04	0.02	13.70	2.74	1.06	0.03
11.15	0.87	0.05	0.02	13.75	2.75	1.07	0.03
11.20	0.88	0.05	0.02	13.80	2.76	1.07	0.03
11.25	0.90	0.06	0.02	13.85	2.77	1.08	0.03
11.30	0.92	0.06	0.03	13.90	2.77	1.08	0.03
11.35	0.94	0.07	0.03	13.95	2.78	1.09	0.03
11.40	0.96	0.07	0.03	14.00	2.79	1.09	0.03
11.45	0.99	0.08	0.03	14.05	2.80	1.10	0.03
11.50	1.01	0.09	0.04	14.10	2.80	1.10	0.03
11.55	1.04	0.10	0.05	14.15	2.81	1.11	0.03
11.60	1.08	0.11	0.06	14.20	2.82	1.11	0.03
11.65	1.11	0.12	0.06	14.25	2.82	1.12	0.03
11.70	1.15	0.13	0.07	14.30	2.83	1.12	0.03
11.75	1.20	0.15	0.08	14.35	2.84	1.13	0.03
11.80	1.25	0.17	0.10	14.40	2.84	1.13	0.03
11.85	1.32	0.20	0.12	14.45	2.85	1.14	0.03
11.90	1.39	0.23	0.15	14.50	2.86	1.14	0.03
11.95	1.51	0.29	0.21	14.55	2.86	1.15	0.03
12.00	1.63	0.35	0.28	14.60	2.87	1.15	0.03
12.05	1.82	0.46	0.41	14.65	2.87	1.16	0.02
12.10	2.02	0.58	**0.54**	14.70	2.88	1.16	0.02
12.15	2.09	0.62	**0.47**	14.75	2.89	1.17	0.02
12.20	2.16	0.66	0.35	14.80	2.89	1.17	0.02
12.25	2.21	0.70	0.27	14.85	2.90	1.17	0.02
12.30	2.26	0.73	0.22	14.90	2.90	1.18	0.02
12.35	2.30	0.75	0.18	14.95	2.91	1.18	0.02
12.40	2.33	0.78	0.15	15.00	2.91	1.18	0.02
12.45	2.37	0.80	0.14	15.05	2.92	1.19	0.02
12.50	2.40	0.82	0.13	15.10	2.92	1.19	0.02
12.55	2.42	0.84	0.12	15.15	2.93	1.19	0.02
12.60	2.45	0.85	0.10	15.20	2.93	1.20	0.02
12.65	2.47	0.87	0.09	15.25	2.94	1.20	0.02
12.70	2.49	0.88	0.08	15.30	2.94	1.21	0.02
12.75	2.51	0.89	0.08	15.35	2.94	1.21	0.02
12.80	2.53	0.91	0.08	15.40	2.95	1.21	0.02
12.85	2.54	0.92	0.07	15.45	2.95	1.22	0.02
12.90	2.56	0.93	0.07	15.50	2.96	1.22	0.02
12.95	2.58	0.94	0.07	15.55	2.96	1.22	0.02

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	2.97	1.23	0.02	18.20	3.15	1.36	0.01
15.65	2.97	1.23	0.02	18.25	3.15	1.37	0.01
15.70	2.98	1.23	0.02	18.30	3.16	1.37	0.01
15.75	2.98	1.24	0.02	18.35	3.16	1.37	0.01
15.80	2.98	1.24	0.02	18.40	3.16	1.37	0.01
15.85	2.99	1.24	0.02	18.45	3.16	1.37	0.01
15.90	2.99	1.24	0.02	18.50	3.17	1.38	0.01
15.95	3.00	1.25	0.02	18.55	3.17	1.38	0.01
16.00	3.00	1.25	0.02	18.60	3.17	1.38	0.01
16.05	3.01	1.25	0.02	18.65	3.17	1.38	0.01
16.10	3.01	1.26	0.02	18.70	3.18	1.38	0.01
16.15	3.01	1.26	0.02	18.75	3.18	1.39	0.01
16.20	3.02	1.26	0.02	18.80	3.18	1.39	0.01
16.25	3.02	1.27	0.02	18.85	3.19	1.39	0.01
16.30	3.03	1.27	0.02	18.90	3.19	1.39	0.01
16.35	3.03	1.27	0.02	18.95	3.19	1.39	0.01
16.40	3.03	1.28	0.02	19.00	3.19	1.40	0.01
16.45	3.04	1.28	0.02	19.05	3.20	1.40	0.01
16.50	3.04	1.28	0.02	19.10	3.20	1.40	0.01
16.55	3.04	1.28	0.02	19.15	3.20	1.40	0.01
16.60	3.05	1.29	0.02	19.20	3.20	1.40	0.01
16.65	3.05	1.29	0.02	19.25	3.21	1.41	0.01
16.70	3.06	1.29	0.02	19.30	3.21	1.41	0.01
16.75	3.06	1.29	0.02	19.35	3.21	1.41	0.01
16.80	3.06	1.30	0.02	19.40	3.21	1.41	0.01
16.85	3.07	1.30	0.02	19.45	3.22	1.41	0.01
16.90	3.07	1.30	0.02	19.50	3.22	1.42	0.01
16.95	3.07	1.31	0.02	19.55	3.22	1.42	0.01
17.00	3.08	1.31	0.02	19.60	3.22	1.42	0.01
17.05	3.08	1.31	0.01	19.65	3.23	1.42	0.01
17.10	3.08	1.31	0.01	19.70	3.23	1.42	0.01
17.15	3.09	1.32	0.01	19.75	3.23	1.43	0.01
17.20	3.09	1.32	0.01	19.80	3.23	1.43	0.01
17.25	3.09	1.32	0.01	19.85	3.24	1.43	0.01
17.30	3.10	1.32	0.01	19.90	3.24	1.43	0.01
17.35	3.10	1.33	0.01	19.95	3.24	1.43	0.01
17.40	3.10	1.33	0.01	20.00	3.24	1.44	0.01
17.45	3.11	1.33	0.01	20.05	3.25	1.44	0.01
17.50	3.11	1.33	0.01	20.10	3.25	1.44	0.01
17.55	3.11	1.34	0.01	20.15	3.25	1.44	0.01
17.60	3.12	1.34	0.01	20.20	3.25	1.44	0.01
17.65	3.12	1.34	0.01	20.25	3.26	1.44	0.01
17.70	3.12	1.34	0.01	20.30	3.26	1.45	0.01
17.75	3.13	1.34	0.01	20.35	3.26	1.45	0.01
17.80	3.13	1.35	0.01	20.40	3.26	1.45	0.01
17.85	3.13	1.35	0.01	20.45	3.26	1.45	0.01
17.90	3.13	1.35	0.01	20.50	3.27	1.45	0.01
17.95	3.14	1.35	0.01	20.55	3.27	1.46	0.01
18.00	3.14	1.36	0.01	20.60	3.27	1.46	0.01
18.05	3.14	1.36	0.01	20.65	3.27	1.46	0.01
18.10	3.15	1.36	0.01	20.70	3.28	1.46	0.01
18.15	3.15	1.36	0.01	20.75	3.28	1.46	0.01

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.28	1.46	0.01	23.40	3.39	1.55	0.01
20.85	3.28	1.47	0.01	23.45	3.39	1.55	0.01
20.90	3.29	1.47	0.01	23.50	3.39	1.55	0.01
20.95	3.29	1.47	0.01	23.55	3.39	1.55	0.01
21.00	3.29	1.47	0.01	23.60	3.39	1.55	0.01
21.05	3.29	1.47	0.01	23.65	3.40	1.55	0.01
21.10	3.29	1.47	0.01	23.70	3.40	1.56	0.01
21.15	3.30	1.48	0.01	23.75	3.40	1.56	0.01
21.20	3.30	1.48	0.01	23.80	3.40	1.56	0.01
21.25	3.30	1.48	0.01	23.85	3.40	1.56	0.01
21.30	3.30	1.48	0.01	23.90	3.41	1.56	0.01
21.35	3.31	1.48	0.01	23.95	3.41	1.56	0.01
21.40	3.31	1.48	0.01	24.00	**3.41**	**1.57**	0.01
21.45	3.31	1.49	0.01				
21.50	3.31	1.49	0.01				
21.55	3.31	1.49	0.01				
21.60	3.32	1.49	0.01				
21.65	3.32	1.49	0.01				
21.70	3.32	1.50	0.01				
21.75	3.32	1.50	0.01				
21.80	3.32	1.50	0.01				
21.85	3.33	1.50	0.01				
21.90	3.33	1.50	0.01				
21.95	3.33	1.50	0.01				
22.00	3.33	1.50	0.01				
22.05	3.33	1.51	0.01				
22.10	3.34	1.51	0.01				
22.15	3.34	1.51	0.01				
22.20	3.34	1.51	0.01				
22.25	3.34	1.51	0.01				
22.30	3.35	1.51	0.01				
22.35	3.35	1.52	0.01				
22.40	3.35	1.52	0.01				
22.45	3.35	1.52	0.01				
22.50	3.35	1.52	0.01				
22.55	3.36	1.52	0.01				
22.60	3.36	1.52	0.01				
22.65	3.36	1.53	0.01				
22.70	3.36	1.53	0.01				
22.75	3.36	1.53	0.01				
22.80	3.37	1.53	0.01				
22.85	3.37	1.53	0.01				
22.90	3.37	1.53	0.01				
22.95	3.37	1.53	0.01				
23.00	3.37	1.54	0.01				
23.05	3.37	1.54	0.01				
23.10	3.38	1.54	0.01				
23.15	3.38	1.54	0.01				
23.20	3.38	1.54	0.01				
23.25	3.38	1.54	0.01				
23.30	3.38	1.54	0.01				
23.35	3.39	1.55	0.01				

Summary for Subcatchment EDA1B IMP: EDA1B IMP

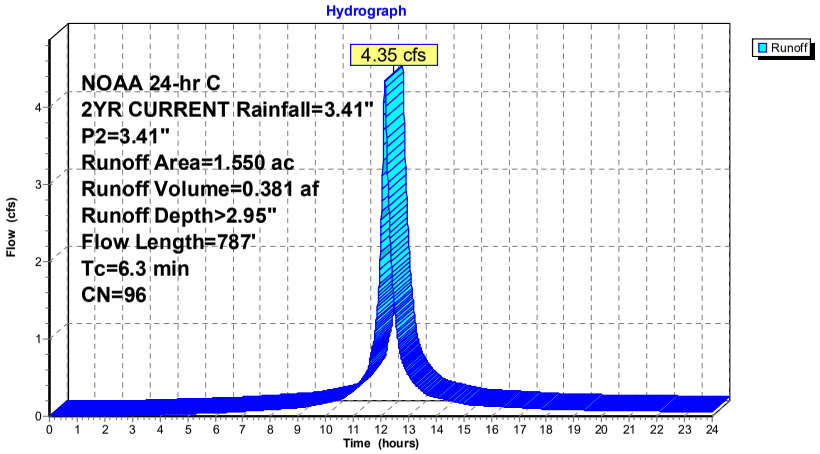
Runoff = 4.35 cfs @ 12.14 hrs, Volume= 0.381 af, Depth> 2.95"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR CURRENT Rainfall=3.41", P2=3.41"

	Area (ac)	CN	Description
	0.940	96	Gravel surface, HSG A
	0.310	96	Gravel surface, HSG D
*	0.190	98	Impervious vehicular
*	0.110	98	Impervious non vehicular
	1.550	96	Weighted Average
	1.250		80.65% Pervious Area
	0.300		19.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	100	0.0100	1.08		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
1.0	93	0.0100	1.50		**Shallow Concentrated Flow, Paved** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.9	93	0.0011	1.71	3.02	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
6.3	787	Total			

Subcatchment EDA1B IMP: EDA1B IMP



Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.10	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.10	0.00	0.00
0.10	0.00	0.00	0.00	2.70	0.11	0.00	0.01
0.15	0.01	0.00	0.00	2.75	0.11	0.00	0.01
0.20	0.01	0.00	0.00	2.80	0.11	0.00	0.01
0.25	0.01	0.00	0.00	2.85	0.11	0.00	0.01
0.30	0.01	0.00	0.00	2.90	0.12	0.00	0.01
0.35	0.01	0.00	0.00	2.95	0.12	0.00	0.01
0.40	0.02	0.00	0.00	3.00	0.12	0.00	0.01
0.45	0.02	0.00	0.00	3.05	0.12	0.00	0.01
0.50	0.02	0.00	0.00	3.10	0.12	0.00	0.01
0.55	0.02	0.00	0.00	3.15	0.13	0.00	0.01
0.60	0.02	0.00	0.00	3.20	0.13	0.00	0.01
0.65	0.02	0.00	0.00	3.25	0.13	0.01	0.01
0.70	0.03	0.00	0.00	3.30	0.13	0.01	0.01
0.75	0.03	0.00	0.00	3.35	0.14	0.01	0.01
0.80	0.03	0.00	0.00	3.40	0.14	0.01	0.01
0.85	0.03	0.00	0.00	3.45	0.14	0.01	0.01
0.90	0.03	0.00	0.00	3.50	0.14	0.01	0.02
0.95	0.04	0.00	0.00	3.55	0.15	0.01	0.02
1.00	0.04	0.00	0.00	3.60	0.15	0.01	0.02
1.05	0.04	0.00	0.00	3.65	0.15	0.01	0.02
1.10	0.04	0.00	0.00	3.70	0.15	0.01	0.02
1.15	0.04	0.00	0.00	3.75	0.15	0.01	0.02
1.20	0.04	0.00	0.00	3.80	0.16	0.01	0.02
1.25	0.05	0.00	0.00	3.85	0.16	0.01	0.02
1.30	0.05	0.00	0.00	3.90	0.16	0.01	0.02
1.35	0.05	0.00	0.00	3.95	0.16	0.01	0.02
1.40	0.05	0.00	0.00	4.00	0.17	0.01	0.02
1.45	0.05	0.00	0.00	4.05	0.17	0.01	0.02
1.50	0.06	0.00	0.00	4.10	0.17	0.02	0.02
1.55	0.06	0.00	0.00	4.15	0.17	0.02	0.02
1.60	0.06	0.00	0.00	4.20	0.18	0.02	0.02
1.65	0.06	0.00	0.00	4.25	0.18	0.02	0.02
1.70	0.06	0.00	0.00	4.30	0.18	0.02	0.02
1.75	0.07	0.00	0.00	4.35	0.18	0.02	0.03
1.80	0.07	0.00	0.00	4.40	0.19	0.02	0.03
1.85	0.07	0.00	0.00	4.45	0.19	0.02	0.03
1.90	0.07	0.00	0.00	4.50	0.19	0.02	0.03
1.95	0.08	0.00	0.00	4.55	0.19	0.02	0.03
2.00	0.08	0.00	0.00	4.60	0.20	0.02	0.03
2.05	0.08	0.00	0.00	4.65	0.20	0.03	0.03
2.10	0.08	0.00	0.00	4.70	0.20	0.03	0.03
2.15	0.08	0.00	0.00	4.75	0.20	0.03	0.03
2.20	0.09	0.00	0.00	4.80	0.21	0.03	0.03
2.25	0.09	0.00	0.00	4.85	0.21	0.03	0.03
2.30	0.09	0.00	0.00	4.90	0.21	0.03	0.03
2.35	0.09	0.00	0.00	4.95	0.21	0.03	0.03
2.40	0.09	0.00	0.00	5.00	0.22	0.03	0.03
2.45	0.10	0.00	0.00	5.05	0.22	0.03	0.03
2.50	0.10	0.00	0.00	5.10	0.22	0.03	0.03
2.55	0.10	0.00	0.00	5.15	0.22	0.04	0.03

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.23	0.04	0.03	7.80	0.39	0.13	0.08
5.25	0.23	0.04	0.04	7.85	0.40	0.13	0.08
5.30	0.23	0.04	0.04	7.90	0.40	0.14	0.08
5.35	0.24	0.04	0.04	7.95	0.40	0.14	0.08
5.40	0.24	0.04	0.04	8.00	0.41	0.14	0.08
5.45	0.24	0.04	0.04	8.05	0.41	0.15	0.09
5.50	0.24	0.04	0.04	8.10	0.42	0.15	0.09
5.55	0.25	0.05	0.04	8.15	0.42	0.15	0.09
5.60	0.25	0.05	0.04	8.20	0.43	0.15	0.09
5.65	0.25	0.05	0.04	8.25	0.43	0.16	0.09
5.70	0.25	0.05	0.04	8.30	0.43	0.16	0.09
5.75	0.26	0.05	0.04	8.35	0.44	0.16	0.09
5.80	0.26	0.05	0.04	8.40	0.44	0.17	0.09
5.85	0.26	0.05	0.04	8.45	0.45	0.17	0.10
5.90	0.26	0.06	0.04	8.50	0.45	0.17	0.10
5.95	0.27	0.06	0.04	8.55	0.46	0.18	0.10
6.00	0.27	0.06	0.04	8.60	0.46	0.18	0.10
6.05	0.27	0.06	0.04	8.65	0.47	0.18	0.10
6.10	0.28	0.06	0.04	8.70	0.47	0.19	0.10
6.15	0.28	0.06	0.05	8.75	0.47	0.19	0.10
6.20	0.28	0.06	0.05	8.80	0.48	0.19	0.10
6.25	0.28	0.07	0.05	8.85	0.48	0.20	0.10
6.30	0.29	0.07	0.05	8.90	0.49	0.20	0.11
6.35	0.29	0.07	0.05	8.95	0.49	0.20	0.11
6.40	0.29	0.07	0.05	9.00	0.50	0.21	0.11
6.45	0.30	0.07	0.05	9.05	0.50	0.21	0.11
6.50	0.30	0.07	0.05	9.10	0.51	0.21	0.11
6.55	0.30	0.08	0.05	9.15	0.51	0.22	0.12
6.60	0.31	0.08	0.05	9.20	0.52	0.22	0.12
6.65	0.31	0.08	0.06	9.25	0.52	0.23	0.12
6.70	0.31	0.08	0.06	9.30	0.53	0.23	0.12
6.75	0.32	0.08	0.06	9.35	0.54	0.24	0.13
6.80	0.32	0.09	0.06	9.40	0.54	0.24	0.13
6.85	0.32	0.09	0.06	9.45	0.55	0.24	0.14
6.90	0.33	0.09	0.06	9.50	0.55	0.25	0.14
6.95	0.33	0.09	0.06	9.55	0.56	0.25	0.14
7.00	0.33	0.09	0.06	9.60	0.57	0.26	0.15
7.05	0.34	0.10	0.06	9.65	0.57	0.26	0.15
7.10	0.34	0.10	0.06	9.70	0.58	0.27	0.15
7.15	0.34	0.10	0.07	9.75	0.59	0.27	0.16
7.20	0.35	0.10	0.07	9.80	0.59	0.28	0.16
7.25	0.35	0.10	0.07	9.85	0.60	0.29	0.16
7.30	0.35	0.11	0.07	9.90	0.61	0.29	0.17
7.35	0.36	0.11	0.07	9.95	0.61	0.30	0.17
7.40	0.36	0.11	0.07	10.00	0.62	0.30	0.18
7.45	0.37	0.11	0.07	10.05	0.63	0.31	0.18
7.50	0.37	0.12	0.07	10.10	0.64	0.32	0.18
7.55	0.37	0.12	0.07	10.15	0.64	0.32	0.19
7.60	0.38	0.12	0.08	10.20	0.65	0.33	0.19
7.65	0.38	0.12	0.08	10.25	0.66	0.34	0.20
7.70	0.38	0.13	0.08	10.30	0.67	0.34	0.20
7.75	0.39	0.13	0.08	10.35	0.68	0.35	0.20

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.69	0.36	0.21	13.00	2.59	2.15	0.53
10.45	0.69	0.36	0.21	13.05	2.61	2.16	0.51
10.50	0.70	0.37	0.22	13.10	2.62	2.18	0.48
10.55	0.71	0.38	0.22	13.15	2.63	2.19	0.45
10.60	0.72	0.39	0.23	13.20	2.64	2.20	0.43
10.65	0.73	0.40	0.24	13.25	2.66	2.21	0.41
10.70	0.74	0.40	0.25	13.30	2.67	2.22	0.39
10.75	0.75	0.41	0.26	13.35	2.68	2.24	0.38
10.80	0.77	0.42	0.28	13.40	2.69	2.25	0.36
10.85	0.78	0.43	0.29	13.45	2.70	2.25	0.34
10.90	0.79	0.45	0.31	13.50	2.71	2.26	0.33
10.95	0.80	0.46	0.32	13.55	2.72	2.27	0.31
11.00	0.82	0.47	0.33	13.60	2.72	2.28	0.30
11.05	0.83	0.48	0.35	13.65	2.73	2.29	0.29
11.10	0.85	0.50	0.37	13.70	2.74	2.30	0.28
11.15	0.87	0.51	0.39	13.75	2.75	2.31	0.27
11.20	0.88	0.53	0.42	13.80	2.76	2.31	0.26
11.25	0.90	0.54	0.44	13.85	2.77	2.32	0.26
11.30	0.92	0.56	0.47	13.90	2.77	2.33	0.25
11.35	0.94	0.58	0.49	13.95	2.78	2.34	0.25
11.40	0.96	0.60	0.52	14.00	2.79	2.34	0.24
11.45	0.99	0.62	0.55	14.05	2.80	2.35	0.24
11.50	1.01	0.64	0.57	14.10	2.80	2.36	0.23
11.55	1.04	0.67	0.62	14.15	2.81	2.37	0.23
11.60	1.08	0.70	0.73	14.20	2.82	2.37	0.23
11.65	1.11	0.73	0.82	14.25	2.82	2.38	0.22
11.70	1.15	0.77	0.89	14.30	2.83	2.39	0.22
11.75	1.20	0.81	0.98	14.35	2.84	2.39	0.21
11.80	1.25	0.86	1.12	14.40	2.84	2.40	0.21
11.85	1.32	0.92	1.28	14.45	2.85	2.40	0.21
11.90	1.39	0.99	1.51	14.50	2.86	2.41	0.20
11.95	1.51	1.10	1.80	14.55	2.86	2.42	0.20
12.00	1.63	1.21	2.34	14.60	2.87	2.42	0.19
12.05	1.82	1.40	2.94	14.65	2.87	2.43	0.19
12.10	2.02	1.60	**3.89**	14.70	2.88	2.43	0.19
12.15	2.09	1.66	**4.33**	14.75	2.89	2.44	0.18
12.20	2.16	1.73	3.73	14.80	2.89	2.45	0.18
12.25	2.21	1.78	3.14	14.85	2.90	2.45	0.18
12.30	2.26	1.83	2.62	14.90	2.90	2.46	0.17
12.35	2.30	1.86	2.22	14.95	2.91	2.46	0.17
12.40	2.33	1.90	1.86	15.00	2.91	2.47	0.16
12.45	2.37	1.93	1.59	15.05	2.92	2.47	0.16
12.50	2.40	1.97	1.39	15.10	2.92	2.47	0.16
12.55	2.42	1.99	1.23	15.15	2.93	2.48	0.15
12.60	2.45	2.01	1.05	15.20	2.93	2.48	0.15
12.65	2.47	2.03	0.91	15.25	2.94	2.49	0.15
12.70	2.49	2.05	0.81	15.30	2.94	2.49	0.15
12.75	2.51	2.07	0.74	15.35	2.94	2.50	0.14
12.80	2.53	2.09	0.68	15.40	2.95	2.50	0.14
12.85	2.54	2.10	0.64	15.45	2.95	2.51	0.14
12.90	2.56	2.12	0.60	15.50	2.96	2.51	0.14
12.95	2.58	2.14	0.57	15.55	2.96	2.52	0.14

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	2.97	2.52	0.14	18.20	3.15	2.70	0.09
15.65	2.97	2.52	0.14	18.25	3.15	2.70	0.08
15.70	2.98	2.53	0.14	18.30	3.16	2.71	0.08
15.75	2.98	2.53	0.14	18.35	3.16	2.71	0.08
15.80	2.98	2.54	0.13	18.40	3.16	2.71	0.08
15.85	2.99	2.54	0.13	18.45	3.16	2.71	0.08
15.90	2.99	2.55	0.13	18.50	3.17	2.72	0.08
15.95	3.00	2.55	0.13	18.55	3.17	2.72	0.08
16.00	3.00	2.55	0.13	18.60	3.17	2.72	0.08
16.05	3.01	2.56	0.13	18.65	3.17	2.72	0.08
16.10	3.01	2.56	0.13	18.70	3.18	2.73	0.08
16.15	3.01	2.57	0.13	18.75	3.18	2.73	0.08
16.20	3.02	2.57	0.13	18.80	3.18	2.73	0.08
16.25	3.02	2.57	0.13	18.85	3.19	2.73	0.08
16.30	3.03	2.58	0.12	18.90	3.19	2.74	0.08
16.35	3.03	2.58	0.12	18.95	3.19	2.74	0.08
16.40	3.03	2.59	0.12	19.00	3.19	2.74	0.08
16.45	3.04	2.59	0.12	19.05	3.20	2.74	0.08
16.50	3.04	2.59	0.12	19.10	3.20	2.75	0.08
16.55	3.04	2.60	0.12	19.15	3.20	2.75	0.08
16.60	3.05	2.60	0.12	19.20	3.20	2.75	0.08
16.65	3.05	2.60	0.12	19.25	3.21	2.75	0.08
16.70	3.06	2.61	0.12	19.30	3.21	2.76	0.08
16.75	3.06	2.61	0.12	19.35	3.21	2.76	0.08
16.80	3.06	2.61	0.11	19.40	3.21	2.76	0.08
16.85	3.07	2.62	0.11	19.45	3.22	2.76	0.08
16.90	3.07	2.62	0.11	19.50	3.22	2.77	0.08
16.95	3.07	2.62	0.11	19.55	3.22	2.77	0.08
17.00	3.08	2.63	0.11	19.60	3.22	2.77	0.08
17.05	3.08	2.63	0.11	19.65	3.23	2.77	0.08
17.10	3.08	2.64	0.11	19.70	3.23	2.78	0.08
17.15	3.09	2.64	0.11	19.75	3.23	2.78	0.08
17.20	3.09	2.64	0.11	19.80	3.23	2.78	0.08
17.25	3.09	2.64	0.10	19.85	3.24	2.78	0.08
17.30	3.10	2.65	0.10	19.90	3.24	2.79	0.08
17.35	3.10	2.65	0.10	19.95	3.24	2.79	0.08
17.40	3.10	2.65	0.10	20.00	3.24	2.79	0.08
17.45	3.11	2.66	0.10	20.05	3.25	2.79	0.08
17.50	3.11	2.66	0.10	20.10	3.25	2.80	0.07
17.55	3.11	2.66	0.10	20.15	3.25	2.80	0.07
17.60	3.12	2.67	0.10	20.20	3.25	2.80	0.07
17.65	3.12	2.67	0.10	20.25	3.26	2.80	0.07
17.70	3.12	2.67	0.10	20.30	3.26	2.81	0.07
17.75	3.13	2.68	0.09	20.35	3.26	2.81	0.07
17.80	3.13	2.68	0.09	20.40	3.26	2.81	0.07
17.85	3.13	2.68	0.09	20.45	3.26	2.81	0.07
17.90	3.13	2.68	0.09	20.50	3.27	2.82	0.07
17.95	3.14	2.69	0.09	20.55	3.27	2.82	0.07
18.00	3.14	2.69	0.09	20.60	3.27	2.82	0.07
18.05	3.14	2.69	0.09	20.65	3.27	2.82	0.07
18.10	3.15	2.70	0.09	20.70	3.28	2.82	0.07
18.15	3.15	2.70	0.09	20.75	3.28	2.83	0.07

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.28	2.83	0.07	23.40	3.39	2.93	0.06
20.85	3.28	2.83	0.07	23.45	3.39	2.94	0.06
20.90	3.29	2.83	0.07	23.50	3.39	2.94	0.06
20.95	3.29	2.84	0.07	23.55	3.39	2.94	0.06
21.00	3.29	2.84	0.07	23.60	3.39	2.94	0.06
21.05	3.29	2.84	0.07	23.65	3.40	2.94	0.06
21.10	3.29	2.84	0.07	23.70	3.40	2.95	0.06
21.15	3.30	2.84	0.07	23.75	3.40	2.95	0.06
21.20	3.30	2.85	0.07	23.80	3.40	2.95	0.06
21.25	3.30	2.85	0.07	23.85	3.40	2.95	0.06
21.30	3.30	2.85	0.07	23.90	3.41	2.95	0.05
21.35	3.31	2.85	0.07	23.95	3.41	2.95	0.06
21.40	3.31	2.86	0.07	24.00	**3.41**	**2.96**	0.06
21.45	3.31	2.86	0.07				
21.50	3.31	2.86	0.07				
21.55	3.31	2.86	0.07				
21.60	3.32	2.86	0.07				
21.65	3.32	2.87	0.07				
21.70	3.32	2.87	0.07				
21.75	3.32	2.87	0.07				
21.80	3.32	2.87	0.07				
21.85	3.33	2.87	0.07				
21.90	3.33	2.88	0.07				
21.95	3.33	2.88	0.07				
22.00	3.33	2.88	0.06				
22.05	3.33	2.88	0.06				
22.10	3.34	2.88	0.06				
22.15	3.34	2.89	0.06				
22.20	3.34	2.89	0.06				
22.25	3.34	2.89	0.06				
22.30	3.35	2.89	0.06				
22.35	3.35	2.89	0.06				
22.40	3.35	2.90	0.06				
22.45	3.35	2.90	0.06				
22.50	3.35	2.90	0.06				
22.55	3.36	2.90	0.06				
22.60	3.36	2.90	0.06				
22.65	3.36	2.91	0.06				
22.70	3.36	2.91	0.06				
22.75	3.36	2.91	0.06				
22.80	3.37	2.91	0.06				
22.85	3.37	2.91	0.06				
22.90	3.37	2.92	0.06				
22.95	3.37	2.92	0.06				
23.00	3.37	2.92	0.06				
23.05	3.37	2.92	0.06				
23.10	3.38	2.92	0.06				
23.15	3.38	2.93	0.06				
23.20	3.38	2.93	0.06				
23.25	3.38	2.93	0.06				
23.30	3.38	2.93	0.06				
23.35	3.39	2.93	0.06				

Summary for Subcatchment EDA2 IMP: EDA2 IMP

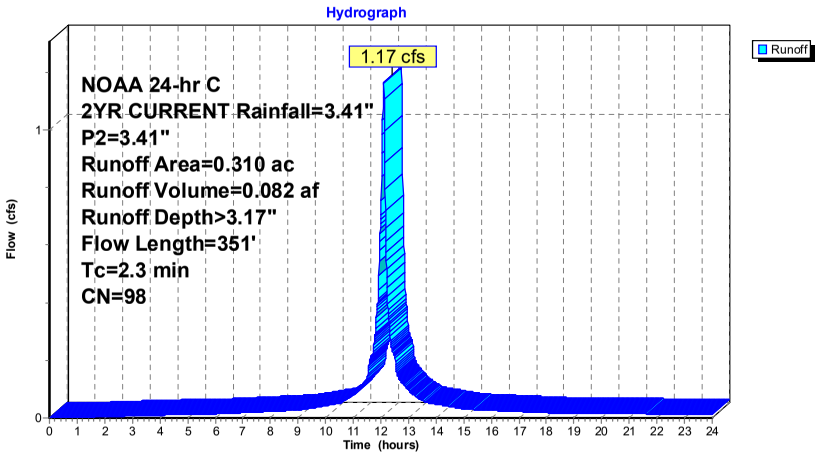
Runoff = 1.17 cfs @ 12.11 hrs, Volume= 0.082 af, Depth> 3.17"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR CURRENT Rainfall=3.41", P2=3.41"

	Area (ac)	CN	Description
*	0.310	98	Impervious vehicular
	0.310		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0180	1.36		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
1.1	251	0.0360	3.85		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
2.3	351	Total			

Subcatchment EDA2 IMP: EDA2 IMP



Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.10	0.01	0.01
0.05	0.00	0.00	0.00	2.65	0.10	0.02	0.01
0.10	0.00	0.00	0.00	2.70	0.11	0.02	0.01
0.15	0.01	0.00	0.00	2.75	0.11	0.02	0.01
0.20	0.01	0.00	0.00	2.80	0.11	0.02	0.01
0.25	0.01	0.00	0.00	2.85	0.11	0.02	0.01
0.30	0.01	0.00	0.00	2.90	0.12	0.02	0.01
0.35	0.01	0.00	0.00	2.95	0.12	0.02	0.01
0.40	0.02	0.00	0.00	3.00	0.12	0.02	0.01
0.45	0.02	0.00	0.00	3.05	0.12	0.02	0.01
0.50	0.02	0.00	0.00	3.10	0.12	0.02	0.01
0.55	0.02	0.00	0.00	3.15	0.13	0.03	0.01
0.60	0.02	0.00	0.00	3.20	0.13	0.03	0.01
0.65	0.02	0.00	0.00	3.25	0.13	0.03	0.01
0.70	0.03	0.00	0.00	3.30	0.13	0.03	0.01
0.75	0.03	0.00	0.00	3.35	0.14	0.03	0.01
0.80	0.03	0.00	0.00	3.40	0.14	0.03	0.01
0.85	0.03	0.00	0.00	3.45	0.14	0.03	0.01
0.90	0.03	0.00	0.00	3.50	0.14	0.03	0.01
0.95	0.04	0.00	0.00	3.55	0.15	0.04	0.01
1.00	0.04	0.00	0.00	3.60	0.15	0.04	0.01
1.05	0.04	0.00	0.00	3.65	0.15	0.04	0.01
1.10	0.04	0.00	0.00	3.70	0.15	0.04	0.01
1.15	0.04	0.00	0.00	3.75	0.15	0.04	0.01
1.20	0.04	0.00	0.00	3.80	0.16	0.04	0.01
1.25	0.05	0.00	0.00	3.85	0.16	0.04	0.01
1.30	0.05	0.00	0.00	3.90	0.16	0.05	0.01
1.35	0.05	0.00	0.00	3.95	0.16	0.05	0.01
1.40	0.05	0.00	0.00	4.00	0.17	0.05	0.01
1.45	0.05	0.00	0.00	4.05	0.17	0.05	0.01
1.50	0.06	0.00	0.00	4.10	0.17	0.05	0.01
1.55	0.06	0.00	0.00	4.15	0.17	0.05	0.01
1.60	0.06	0.00	0.00	4.20	0.18	0.05	0.01
1.65	0.06	0.00	0.00	4.25	0.18	0.06	0.01
1.70	0.06	0.00	0.00	4.30	0.18	0.06	0.01
1.75	0.07	0.00	0.00	4.35	0.18	0.06	0.01
1.80	0.07	0.00	0.00	4.40	0.19	0.06	0.01
1.85	0.07	0.00	0.00	4.45	0.19	0.06	0.01
1.90	0.07	0.00	0.00	4.50	0.19	0.06	0.01
1.95	0.08	0.00	0.00	4.55	0.19	0.07	0.01
2.00	0.08	0.01	0.00	4.60	0.20	0.07	0.01
2.05	0.08	0.01	0.00	4.65	0.20	0.07	0.01
2.10	0.08	0.01	0.00	4.70	0.20	0.07	0.01
2.15	0.08	0.01	0.00	4.75	0.20	0.07	0.01
2.20	0.09	0.01	0.00	4.80	0.21	0.07	0.01
2.25	0.09	0.01	0.00	4.85	0.21	0.08	0.01
2.30	0.09	0.01	0.00	4.90	0.21	0.08	0.01
2.35	0.09	0.01	0.00	4.95	0.21	0.08	0.01
2.40	0.09	0.01	0.00	5.00	0.22	0.08	0.01
2.45	0.10	0.01	0.00	5.05	0.22	0.08	0.01
2.50	0.10	0.01	0.01	5.10	0.22	0.09	0.01
2.55	0.10	0.01	0.01	5.15	0.22	0.09	0.01

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.23	0.09	0.01	7.80	0.39	0.22	0.02
5.25	0.23	0.09	0.01	7.85	0.40	0.23	0.02
5.30	0.23	0.09	0.01	7.90	0.40	0.23	0.02
5.35	0.24	0.09	0.01	7.95	0.40	0.23	0.02
5.40	0.24	0.10	0.01	8.00	0.41	0.24	0.02
5.45	0.24	0.10	0.01	8.05	0.41	0.24	0.02
5.50	0.24	0.10	0.01	8.10	0.42	0.24	0.02
5.55	0.25	0.10	0.01	8.15	0.42	0.25	0.02
5.60	0.25	0.10	0.01	8.20	0.43	0.25	0.02
5.65	0.25	0.11	0.01	8.25	0.43	0.26	0.02
5.70	0.25	0.11	0.01	8.30	0.43	0.26	0.02
5.75	0.26	0.11	0.01	8.35	0.44	0.26	0.02
5.80	0.26	0.11	0.01	8.40	0.44	0.27	0.02
5.85	0.26	0.12	0.01	8.45	0.45	0.27	0.02
5.90	0.26	0.12	0.01	8.50	0.45	0.27	0.02
5.95	0.27	0.12	0.01	8.55	0.46	0.28	0.02
6.00	0.27	0.12	0.01	8.60	0.46	0.28	0.03
6.05	0.27	0.12	0.01	8.65	0.47	0.29	0.03
6.10	0.28	0.13	0.01	8.70	0.47	0.29	0.03
6.15	0.28	0.13	0.01	8.75	0.47	0.29	0.03
6.20	0.28	0.13	0.01	8.80	0.48	0.30	0.03
6.25	0.28	0.13	0.01	8.85	0.48	0.30	0.03
6.30	0.29	0.14	0.01	8.90	0.49	0.31	0.03
6.35	0.29	0.14	0.01	8.95	0.49	0.31	0.03
6.40	0.29	0.14	0.01	9.00	0.50	0.32	0.03
6.45	0.30	0.14	0.02	9.05	0.50	0.32	0.03
6.50	0.30	0.14	0.02	9.10	0.51	0.33	0.03
6.55	0.30	0.15	0.02	9.15	0.51	0.33	0.03
6.60	0.31	0.15	0.02	9.20	0.52	0.33	0.03
6.65	0.31	0.15	0.02	9.25	0.52	0.34	0.03
6.70	0.31	0.16	0.02	9.30	0.53	0.34	0.03
6.75	0.32	0.16	0.02	9.35	0.54	0.35	0.03
6.80	0.32	0.16	0.02	9.40	0.54	0.36	0.03
6.85	0.32	0.16	0.02	9.45	0.55	0.36	0.03
6.90	0.33	0.17	0.02	9.50	0.55	0.37	0.03
6.95	0.33	0.17	0.02	9.55	0.56	0.37	0.04
7.00	0.33	0.17	0.02	9.60	0.57	0.38	0.04
7.05	0.34	0.17	0.02	9.65	0.57	0.38	0.04
7.10	0.34	0.18	0.02	9.70	0.58	0.39	0.04
7.15	0.34	0.18	0.02	9.75	0.59	0.40	0.04
7.20	0.35	0.18	0.02	9.80	0.59	0.40	0.04
7.25	0.35	0.19	0.02	9.85	0.60	0.41	0.04
7.30	0.35	0.19	0.02	9.90	0.61	0.42	0.04
7.35	0.36	0.19	0.02	9.95	0.61	0.42	0.04
7.40	0.36	0.20	0.02	10.00	0.62	0.43	0.04
7.45	0.37	0.20	0.02	10.05	0.63	0.44	0.04
7.50	0.37	0.20	0.02	10.10	0.64	0.44	0.04
7.55	0.37	0.21	0.02	10.15	0.64	0.45	0.05
7.60	0.38	0.21	0.02	10.20	0.65	0.46	0.05
7.65	0.38	0.21	0.02	10.25	0.66	0.47	0.05
7.70	0.38	0.22	0.02	10.30	0.67	0.47	0.05
7.75	0.39	0.22	0.02	10.35	0.68	0.48	0.05

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.69	0.49	0.05	13.00	2.59	2.36	0.10
10.45	0.69	0.50	0.05	13.05	2.61	2.38	0.09
10.50	0.70	0.51	0.05	13.10	2.62	2.39	0.09
10.55	0.71	0.52	0.05	13.15	2.63	2.40	0.08
10.60	0.72	0.52	0.06	13.20	2.64	2.41	0.08
10.65	0.73	0.53	0.06	13.25	2.66	2.43	0.07
10.70	0.74	0.54	0.06	13.30	2.67	2.44	0.07
10.75	0.75	0.56	0.07	13.35	2.68	2.45	0.07
10.80	0.77	0.57	0.07	13.40	2.69	2.46	0.07
10.85	0.78	0.58	0.07	13.45	2.70	2.47	0.06
10.90	0.79	0.59	0.07	13.50	2.71	2.48	0.06
10.95	0.80	0.60	0.08	13.55	2.72	2.49	0.06
11.00	0.82	0.62	0.08	13.60	2.72	2.49	0.05
11.05	0.83	0.63	0.09	13.65	2.73	2.50	0.05
11.10	0.85	0.65	0.09	13.70	2.74	2.51	0.05
11.15	0.87	0.66	0.10	13.75	2.75	2.52	0.05
11.20	0.88	0.68	0.10	13.80	2.76	2.53	0.05
11.25	0.90	0.70	0.11	13.85	2.77	2.53	0.05
11.30	0.92	0.71	0.11	13.90	2.77	2.54	0.05
11.35	0.94	0.74	0.12	13.95	2.78	2.55	0.05
11.40	0.96	0.76	0.12	14.00	2.79	2.56	0.05
11.45	0.99	0.78	0.13	14.05	2.80	2.56	0.05
11.50	1.01	0.80	0.13	14.10	2.80	2.57	0.05
11.55	1.04	0.83	0.17	14.15	2.81	2.58	0.04
11.60	1.08	0.87	0.20	14.20	2.82	2.59	0.04
11.65	1.11	0.90	0.21	14.25	2.82	2.59	0.04
11.70	1.15	0.94	0.22	14.30	2.83	2.60	0.04
11.75	1.20	0.98	0.26	14.35	2.84	2.61	0.04
11.80	1.25	1.03	0.29	14.40	2.84	2.61	0.04
11.85	1.32	1.10	0.36	14.45	2.85	2.62	0.04
11.90	1.39	1.17	0.41	14.50	2.86	2.63	0.04
11.95	1.51	1.29	0.58	14.55	2.86	2.63	0.04
12.00	1.63	1.40	0.69	14.60	2.87	2.64	0.04
12.05	1.82	1.60	0.98	14.65	2.87	2.64	0.04
12.10	2.02	1.80	**1.16**	14.70	2.88	2.65	0.04
12.15	2.09	1.87	**0.79**	14.75	2.89	2.65	0.04
12.20	2.16	1.93	0.54	14.80	2.89	2.66	0.03
12.25	2.21	1.98	0.39	14.85	2.90	2.67	0.03
12.30	2.26	2.03	0.33	14.90	2.90	2.67	0.03
12.35	2.30	2.07	0.27	14.95	2.91	2.68	0.03
12.40	2.33	2.11	0.24	15.00	2.91	2.68	0.03
12.45	2.37	2.14	0.22	15.05	2.92	2.69	0.03
12.50	2.40	2.17	0.22	15.10	2.92	2.69	0.03
12.55	2.42	2.20	0.17	15.15	2.93	2.69	0.03
12.60	2.45	2.22	0.15	15.20	2.93	2.70	0.03
12.65	2.47	2.24	0.14	15.25	2.94	2.70	0.03
12.70	2.49	2.26	0.13	15.30	2.94	2.71	0.03
12.75	2.51	2.28	0.12	15.35	2.94	2.71	0.03
12.80	2.53	2.30	0.12	15.40	2.95	2.72	0.03
12.85	2.54	2.31	0.11	15.45	2.95	2.72	0.03
12.90	2.56	2.33	0.11	15.50	2.96	2.73	0.03
12.95	2.58	2.35	0.10	15.55	2.96	2.73	0.03

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	2.97	2.74	0.03	18.20	3.15	2.92	0.02
15.65	2.97	2.74	0.03	18.25	3.15	2.92	0.02
15.70	2.98	2.74	0.03	18.30	3.16	2.92	0.02
15.75	2.98	2.75	0.03	18.35	3.16	2.93	0.02
15.80	2.98	2.75	0.03	18.40	3.16	2.93	0.02
15.85	2.99	2.76	0.03	18.45	3.16	2.93	0.02
15.90	2.99	2.76	0.03	18.50	3.17	2.93	0.02
15.95	3.00	2.77	0.03	18.55	3.17	2.94	0.02
16.00	3.00	2.77	0.03	18.60	3.17	2.94	0.02
16.05	3.01	2.77	0.03	18.65	3.17	2.94	0.02
16.10	3.01	2.78	0.03	18.70	3.18	2.95	0.02
16.15	3.01	2.78	0.03	18.75	3.18	2.95	0.02
16.20	3.02	2.79	0.03	18.80	3.18	2.95	0.02
16.25	3.02	2.79	0.02	18.85	3.19	2.95	0.02
16.30	3.03	2.79	0.02	18.90	3.19	2.96	0.02
16.35	3.03	2.80	0.02	18.95	3.19	2.96	0.02
16.40	3.03	2.80	0.02	19.00	3.19	2.96	0.02
16.45	3.04	2.81	0.02	19.05	3.20	2.96	0.02
16.50	3.04	2.81	0.02	19.10	3.20	2.97	0.02
16.55	3.04	2.81	0.02	19.15	3.20	2.97	0.02
16.60	3.05	2.82	0.02	19.20	3.20	2.97	0.02
16.65	3.05	2.82	0.02	19.25	3.21	2.97	0.02
16.70	3.06	2.82	0.02	19.30	3.21	2.98	0.02
16.75	3.06	2.83	0.02	19.35	3.21	2.98	0.02
16.80	3.06	2.83	0.02	19.40	3.21	2.98	0.02
16.85	3.07	2.83	0.02	19.45	3.22	2.98	0.02
16.90	3.07	2.84	0.02	19.50	3.22	2.99	0.02
16.95	3.07	2.84	0.02	19.55	3.22	2.99	0.02
17.00	3.08	2.85	0.02	19.60	3.22	2.99	0.02
17.05	3.08	2.85	0.02	19.65	3.23	2.99	0.02
17.10	3.08	2.85	0.02	19.70	3.23	3.00	0.02
17.15	3.09	2.86	0.02	19.75	3.23	3.00	0.02
17.20	3.09	2.86	0.02	19.80	3.23	3.00	0.02
17.25	3.09	2.86	0.02	19.85	3.24	3.00	0.02
17.30	3.10	2.87	0.02	19.90	3.24	3.01	0.02
17.35	3.10	2.87	0.02	19.95	3.24	3.01	0.02
17.40	3.10	2.87	0.02	20.00	3.24	3.01	0.02
17.45	3.11	2.87	0.02	20.05	3.25	3.01	0.02
17.50	3.11	2.88	0.02	20.10	3.25	3.02	0.01
17.55	3.11	2.88	0.02	20.15	3.25	3.02	0.01
17.60	3.12	2.88	0.02	20.20	3.25	3.02	0.01
17.65	3.12	2.89	0.02	20.25	3.26	3.02	0.01
17.70	3.12	2.89	0.02	20.30	3.26	3.02	0.01
17.75	3.13	2.89	0.02	20.35	3.26	3.03	0.01
17.80	3.13	2.90	0.02	20.40	3.26	3.03	0.01
17.85	3.13	2.90	0.02	20.45	3.26	3.03	0.01
17.90	3.13	2.90	0.02	20.50	3.27	3.03	0.01
17.95	3.14	2.90	0.02	20.55	3.27	3.04	0.01
18.00	3.14	2.91	0.02	20.60	3.27	3.04	0.01
18.05	3.14	2.91	0.02	20.65	3.27	3.04	0.01
18.10	3.15	2.91	0.02	20.70	3.28	3.04	0.01
18.15	3.15	2.92	0.02	20.75	3.28	3.05	0.01

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.28	3.05	0.01	23.40	3.39	3.15	0.01
20.85	3.28	3.05	0.01	23.45	3.39	3.16	0.01
20.90	3.29	3.05	0.01	23.50	3.39	3.16	0.01
20.95	3.29	3.05	0.01	23.55	3.39	3.16	0.01
21.00	3.29	3.06	0.01	23.60	3.39	3.16	0.01
21.05	3.29	3.06	0.01	23.65	3.40	3.16	0.01
21.10	3.29	3.06	0.01	23.70	3.40	3.17	0.01
21.15	3.30	3.06	0.01	23.75	3.40	3.17	0.01
21.20	3.30	3.07	0.01	23.80	3.40	3.17	0.01
21.25	3.30	3.07	0.01	23.85	3.40	3.17	0.01
21.30	3.30	3.07	0.01	23.90	3.41	3.17	0.01
21.35	3.31	3.07	0.01	23.95	3.41	3.17	0.01
21.40	3.31	3.07	0.01	24.00	**3.41**	**3.18**	0.01
21.45	3.31	3.08	0.01				
21.50	3.31	3.08	0.01				
21.55	3.31	3.08	0.01				
21.60	3.32	3.08	0.01				
21.65	3.32	3.09	0.01				
21.70	3.32	3.09	0.01				
21.75	3.32	3.09	0.01				
21.80	3.32	3.09	0.01				
21.85	3.33	3.09	0.01				
21.90	3.33	3.10	0.01				
21.95	3.33	3.10	0.01				
22.00	3.33	3.10	0.01				
22.05	3.33	3.10	0.01				
22.10	3.34	3.10	0.01				
22.15	3.34	3.11	0.01				
22.20	3.34	3.11	0.01				
22.25	3.34	3.11	0.01				
22.30	3.35	3.11	0.01				
22.35	3.35	3.11	0.01				
22.40	3.35	3.12	0.01				
22.45	3.35	3.12	0.01				
22.50	3.35	3.12	0.01				
22.55	3.36	3.12	0.01				
22.60	3.36	3.12	0.01				
22.65	3.36	3.13	0.01				
22.70	3.36	3.13	0.01				
22.75	3.36	3.13	0.01				
22.80	3.37	3.13	0.01				
22.85	3.37	3.13	0.01				
22.90	3.37	3.14	0.01				
22.95	3.37	3.14	0.01				
23.00	3.37	3.14	0.01				
23.05	3.37	3.14	0.01				
23.10	3.38	3.14	0.01				
23.15	3.38	3.15	0.01				
23.20	3.38	3.15	0.01				
23.25	3.38	3.15	0.01				
23.30	3.38	3.15	0.01				
23.35	3.39	3.15	0.01				

Summary for Subcatchment EDA3 IMP: EDA3 IMP

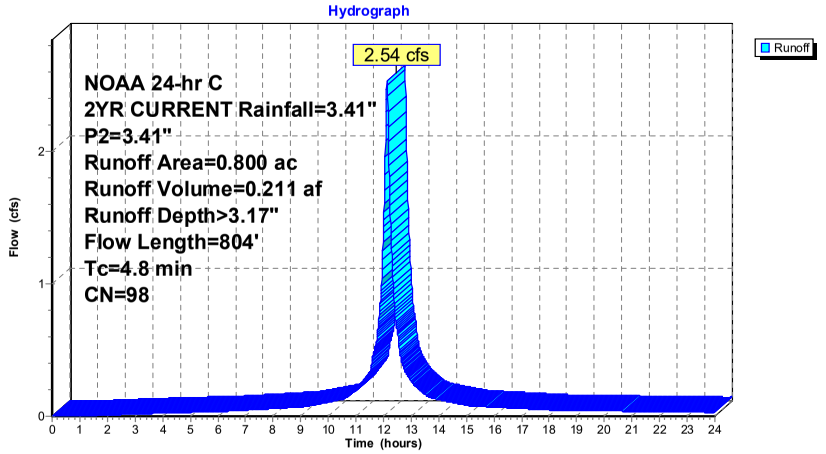
Runoff = 2.54 cfs @ 12.13 hrs, Volume= 0.211 af, Depth> 3.17"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR CURRENT Rainfall=3.41", P2=3.41"

	Area (ac)	CN	Description
*	0.750	98	Impervious vehicular
*	0.050	98	Impervious non vehicular
	0.800	98	Weighted Average
	0.800		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0071	0.94		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.7	172	0.0039	3.90	12.24	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
0.1	27	0.0120	6.84	21.48	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
1.6	439	0.0015	4.45	87.42	**Pipe Channel, RCP_Round 60"** 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.015
4.8	804	Total			

Subcatchment EDA3 IMP: EDA3 IMP



Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.10	0.01	0.01
0.05	0.00	0.00	0.00	2.65	0.10	0.02	0.01
0.10	0.00	0.00	0.00	2.70	0.11	0.02	0.01
0.15	0.01	0.00	0.00	2.75	0.11	0.02	0.01
0.20	0.01	0.00	0.00	2.80	0.11	0.02	0.02
0.25	0.01	0.00	0.00	2.85	0.11	0.02	0.02
0.30	0.01	0.00	0.00	2.90	0.12	0.02	0.02
0.35	0.01	0.00	0.00	2.95	0.12	0.02	0.02
0.40	0.02	0.00	0.00	3.00	0.12	0.02	0.02
0.45	0.02	0.00	0.00	3.05	0.12	0.02	0.02
0.50	0.02	0.00	0.00	3.10	0.12	0.02	0.02
0.55	0.02	0.00	0.00	3.15	0.13	0.03	0.02
0.60	0.02	0.00	0.00	3.20	0.13	0.03	0.02
0.65	0.02	0.00	0.00	3.25	0.13	0.03	0.02
0.70	0.03	0.00	0.00	3.30	0.13	0.03	0.02
0.75	0.03	0.00	0.00	3.35	0.14	0.03	0.02
0.80	0.03	0.00	0.00	3.40	0.14	0.03	0.02
0.85	0.03	0.00	0.00	3.45	0.14	0.03	0.02
0.90	0.03	0.00	0.00	3.50	0.14	0.03	0.02
0.95	0.04	0.00	0.00	3.55	0.15	0.04	0.02
1.00	0.04	0.00	0.00	3.60	0.15	0.04	0.02
1.05	0.04	0.00	0.00	3.65	0.15	0.04	0.02
1.10	0.04	0.00	0.00	3.70	0.15	0.04	0.02
1.15	0.04	0.00	0.00	3.75	0.15	0.04	0.02
1.20	0.04	0.00	0.00	3.80	0.16	0.04	0.02
1.25	0.05	0.00	0.00	3.85	0.16	0.04	0.02
1.30	0.05	0.00	0.00	3.90	0.16	0.05	0.02
1.35	0.05	0.00	0.00	3.95	0.16	0.05	0.02
1.40	0.05	0.00	0.00	4.00	0.17	0.05	0.02
1.45	0.05	0.00	0.00	4.05	0.17	0.05	0.02
1.50	0.06	0.00	0.00	4.10	0.17	0.05	0.02
1.55	0.06	0.00	0.00	4.15	0.17	0.05	0.02
1.60	0.06	0.00	0.00	4.20	0.18	0.05	0.02
1.65	0.06	0.00	0.00	4.25	0.18	0.06	0.02
1.70	0.06	0.00	0.01	4.30	0.18	0.06	0.03
1.75	0.07	0.00	0.01	4.35	0.18	0.06	0.03
1.80	0.07	0.00	0.01	4.40	0.19	0.06	0.03
1.85	0.07	0.00	0.01	4.45	0.19	0.06	0.03
1.90	0.07	0.00	0.01	4.50	0.19	0.06	0.03
1.95	0.08	0.00	0.01	4.55	0.19	0.07	0.03
2.00	0.08	0.01	0.01	4.60	0.20	0.07	0.03
2.05	0.08	0.01	0.01	4.65	0.20	0.07	0.03
2.10	0.08	0.01	0.01	4.70	0.20	0.07	0.03
2.15	0.08	0.01	0.01	4.75	0.20	0.07	0.03
2.20	0.09	0.01	0.01	4.80	0.21	0.07	0.03
2.25	0.09	0.01	0.01	4.85	0.21	0.08	0.03
2.30	0.09	0.01	0.01	4.90	0.21	0.08	0.03
2.35	0.09	0.01	0.01	4.95	0.21	0.08	0.03
2.40	0.09	0.01	0.01	5.00	0.22	0.08	0.03
2.45	0.10	0.01	0.01	5.05	0.22	0.08	0.03
2.50	0.10	0.01	0.01	5.10	0.22	0.09	0.03
2.55	0.10	0.01	0.01	5.15	0.22	0.09	0.03

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.23	0.09	0.03	7.80	0.39	0.22	0.05
5.25	0.23	0.09	0.03	7.85	0.40	0.23	0.05
5.30	0.23	0.09	0.03	7.90	0.40	0.23	0.06
5.35	0.24	0.09	0.03	7.95	0.40	0.23	0.06
5.40	0.24	0.10	0.03	8.00	0.41	0.24	0.06
5.45	0.24	0.10	0.03	8.05	0.41	0.24	0.06
5.50	0.24	0.10	0.03	8.10	0.42	0.24	0.06
5.55	0.25	0.10	0.03	8.15	0.42	0.25	0.06
5.60	0.25	0.10	0.03	8.20	0.43	0.25	0.06
5.65	0.25	0.11	0.03	8.25	0.43	0.26	0.06
5.70	0.25	0.11	0.03	8.30	0.43	0.26	0.06
5.75	0.26	0.11	0.03	8.35	0.44	0.26	0.06
5.80	0.26	0.11	0.03	8.40	0.44	0.27	0.06
5.85	0.26	0.12	0.03	8.45	0.45	0.27	0.06
5.90	0.26	0.12	0.03	8.50	0.45	0.27	0.06
5.95	0.27	0.12	0.03	8.55	0.46	0.28	0.06
6.00	0.27	0.12	0.03	8.60	0.46	0.28	0.06
6.05	0.27	0.12	0.03	8.65	0.47	0.29	0.06
6.10	0.28	0.13	0.03	8.70	0.47	0.29	0.07
6.15	0.28	0.13	0.04	8.75	0.47	0.29	0.07
6.20	0.28	0.13	0.04	8.80	0.48	0.30	0.07
6.25	0.28	0.13	0.04	8.85	0.48	0.30	0.07
6.30	0.29	0.14	0.04	8.90	0.49	0.31	0.07
6.35	0.29	0.14	0.04	8.95	0.49	0.31	0.07
6.40	0.29	0.14	0.04	9.00	0.50	0.32	0.07
6.45	0.30	0.14	0.04	9.05	0.50	0.32	0.07
6.50	0.30	0.14	0.04	9.10	0.51	0.33	0.07
6.55	0.30	0.15	0.04	9.15	0.51	0.33	0.07
6.60	0.31	0.15	0.04	9.20	0.52	0.33	0.07
6.65	0.31	0.15	0.04	9.25	0.52	0.34	0.08
6.70	0.31	0.16	0.04	9.30	0.53	0.34	0.08
6.75	0.32	0.16	0.04	9.35	0.54	0.35	0.08
6.80	0.32	0.16	0.04	9.40	0.54	0.36	0.08
6.85	0.32	0.16	0.04	9.45	0.55	0.36	0.08
6.90	0.33	0.17	0.04	9.50	0.55	0.37	0.09
6.95	0.33	0.17	0.04	9.55	0.56	0.37	0.09
7.00	0.33	0.17	0.04	9.60	0.57	0.38	0.09
7.05	0.34	0.17	0.05	9.65	0.57	0.38	0.09
7.10	0.34	0.18	0.05	9.70	0.58	0.39	0.09
7.15	0.34	0.18	0.05	9.75	0.59	0.40	0.10
7.20	0.35	0.18	0.05	9.80	0.59	0.40	0.10
7.25	0.35	0.19	0.05	9.85	0.60	0.41	0.10
7.30	0.35	0.19	0.05	9.90	0.61	0.42	0.10
7.35	0.36	0.19	0.05	9.95	0.61	0.42	0.11
7.40	0.36	0.20	0.05	10.00	0.62	0.43	0.11
7.45	0.37	0.20	0.05	10.05	0.63	0.44	0.11
7.50	0.37	0.20	0.05	10.10	0.64	0.44	0.11
7.55	0.37	0.21	0.05	10.15	0.64	0.45	0.11
7.60	0.38	0.21	0.05	10.20	0.65	0.46	0.12
7.65	0.38	0.21	0.05	10.25	0.66	0.47	0.12
7.70	0.38	0.22	0.05	10.30	0.67	0.47	0.12
7.75	0.39	0.22	0.05	10.35	0.68	0.48	0.12

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.69	0.49	0.12	13.00	2.59	2.36	0.27
10.45	0.69	0.50	0.13	13.05	2.61	2.38	0.25
10.50	0.70	0.51	0.13	13.10	2.62	2.39	0.24
10.55	0.71	0.52	0.13	13.15	2.63	2.40	0.23
10.60	0.72	0.52	0.14	13.20	2.64	2.41	0.22
10.65	0.73	0.53	0.14	13.25	2.66	2.43	0.21
10.70	0.74	0.54	0.15	13.30	2.67	2.44	0.20
10.75	0.75	0.56	0.16	13.35	2.68	2.45	0.19
10.80	0.77	0.57	0.17	13.40	2.69	2.46	0.18
10.85	0.78	0.58	0.17	13.45	2.70	2.47	0.17
10.90	0.79	0.59	0.18	13.50	2.71	2.48	0.17
10.95	0.80	0.60	0.19	13.55	2.72	2.49	0.16
11.00	0.82	0.62	0.20	13.60	2.72	2.49	0.15
11.05	0.83	0.63	0.21	13.65	2.73	2.50	0.14
11.10	0.85	0.65	0.22	13.70	2.74	2.51	0.14
11.15	0.87	0.66	0.23	13.75	2.75	2.52	0.14
11.20	0.88	0.68	0.25	13.80	2.76	2.53	0.13
11.25	0.90	0.70	0.26	13.85	2.77	2.53	0.13
11.30	0.92	0.71	0.27	13.90	2.77	2.54	0.13
11.35	0.94	0.74	0.29	13.95	2.78	2.55	0.13
11.40	0.96	0.76	0.30	14.00	2.79	2.56	0.12
11.45	0.99	0.78	0.32	14.05	2.80	2.56	0.12
11.50	1.01	0.80	0.33	14.10	2.80	2.57	0.12
11.55	1.04	0.83	0.37	14.15	2.81	2.58	0.12
11.60	1.08	0.87	0.44	14.20	2.82	2.59	0.12
11.65	1.11	0.90	0.49	14.25	2.82	2.59	0.11
11.70	1.15	0.94	0.52	14.30	2.83	2.60	0.11
11.75	1.20	0.98	0.58	14.35	2.84	2.61	0.11
11.80	1.25	1.03	0.66	14.40	2.84	2.61	0.11
11.85	1.32	1.10	0.76	14.45	2.85	2.62	0.11
11.90	1.39	1.17	0.90	14.50	2.86	2.63	0.10
11.95	1.51	1.29	1.11	14.55	2.86	2.63	0.10
12.00	1.63	1.40	1.44	14.60	2.87	2.64	0.10
12.05	1.82	1.60	1.83	14.65	2.87	2.64	0.10
12.10	2.02	1.80	**2.39**	14.70	2.88	2.65	0.10
12.15	2.09	1.87	**2.42**	14.75	2.89	2.65	0.09
12.20	2.16	1.93	1.89	14.80	2.89	2.66	0.09
12.25	2.21	1.98	1.52	14.85	2.90	2.67	0.09
12.30	2.26	2.03	1.22	14.90	2.90	2.67	0.09
12.35	2.30	2.07	1.01	14.95	2.91	2.68	0.09
12.40	2.33	2.11	0.82	15.00	2.91	2.68	0.08
12.45	2.37	2.14	0.70	15.05	2.92	2.69	0.08
12.50	2.40	2.17	0.63	15.10	2.92	2.69	0.08
12.55	2.42	2.20	0.56	15.15	2.93	2.69	0.08
12.60	2.45	2.22	0.47	15.20	2.93	2.70	0.08
12.65	2.47	2.24	0.42	15.25	2.94	2.70	0.08
12.70	2.49	2.26	0.38	15.30	2.94	2.71	0.08
12.75	2.51	2.28	0.35	15.35	2.94	2.71	0.07
12.80	2.53	2.30	0.33	15.40	2.95	2.72	0.07
12.85	2.54	2.31	0.31	15.45	2.95	2.72	0.07
12.90	2.56	2.33	0.30	15.50	2.96	2.73	0.07
12.95	2.58	2.35	0.28	15.55	2.96	2.73	0.07

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	2.97	2.74	0.07	18.20	3.15	2.92	0.04
15.65	2.97	2.74	0.07	18.25	3.15	2.92	0.04
15.70	2.98	2.74	0.07	18.30	3.16	2.92	0.04
15.75	2.98	2.75	0.07	18.35	3.16	2.93	0.04
15.80	2.98	2.75	0.07	18.40	3.16	2.93	0.04
15.85	2.99	2.76	0.07	18.45	3.16	2.93	0.04
15.90	2.99	2.76	0.07	18.50	3.17	2.93	0.04
15.95	3.00	2.77	0.07	18.55	3.17	2.94	0.04
16.00	3.00	2.77	0.07	18.60	3.17	2.94	0.04
16.05	3.01	2.77	0.07	18.65	3.17	2.94	0.04
16.10	3.01	2.78	0.07	18.70	3.18	2.95	0.04
16.15	3.01	2.78	0.07	18.75	3.18	2.95	0.04
16.20	3.02	2.79	0.07	18.80	3.18	2.95	0.04
16.25	3.02	2.79	0.07	18.85	3.19	2.95	0.04
16.30	3.03	2.79	0.06	18.90	3.19	2.96	0.04
16.35	3.03	2.80	0.06	18.95	3.19	2.96	0.04
16.40	3.03	2.80	0.06	19.00	3.19	2.96	0.04
16.45	3.04	2.81	0.06	19.05	3.20	2.96	0.04
16.50	3.04	2.81	0.06	19.10	3.20	2.97	0.04
16.55	3.04	2.81	0.06	19.15	3.20	2.97	0.04
16.60	3.05	2.82	0.06	19.20	3.20	2.97	0.04
16.65	3.05	2.82	0.06	19.25	3.21	2.97	0.04
16.70	3.06	2.82	0.06	19.30	3.21	2.98	0.04
16.75	3.06	2.83	0.06	19.35	3.21	2.98	0.04
16.80	3.06	2.83	0.06	19.40	3.21	2.98	0.04
16.85	3.07	2.83	0.06	19.45	3.22	2.98	0.04
16.90	3.07	2.84	0.06	19.50	3.22	2.99	0.04
16.95	3.07	2.84	0.06	19.55	3.22	2.99	0.04
17.00	3.08	2.85	0.06	19.60	3.22	2.99	0.04
17.05	3.08	2.85	0.06	19.65	3.23	2.99	0.04
17.10	3.08	2.85	0.06	19.70	3.23	3.00	0.04
17.15	3.09	2.86	0.06	19.75	3.23	3.00	0.04
17.20	3.09	2.86	0.05	19.80	3.23	3.00	0.04
17.25	3.09	2.86	0.05	19.85	3.24	3.00	0.04
17.30	3.10	2.87	0.05	19.90	3.24	3.01	0.04
17.35	3.10	2.87	0.05	19.95	3.24	3.01	0.04
17.40	3.10	2.87	0.05	20.00	3.24	3.01	0.04
17.45	3.11	2.87	0.05	20.05	3.25	3.01	0.04
17.50	3.11	2.88	0.05	20.10	3.25	3.02	0.04
17.55	3.11	2.88	0.05	20.15	3.25	3.02	0.04
17.60	3.12	2.88	0.05	20.20	3.25	3.02	0.04
17.65	3.12	2.89	0.05	20.25	3.26	3.02	0.04
17.70	3.12	2.89	0.05	20.30	3.26	3.02	0.04
17.75	3.13	2.89	0.05	20.35	3.26	3.03	0.04
17.80	3.13	2.90	0.05	20.40	3.26	3.03	0.04
17.85	3.13	2.90	0.05	20.45	3.26	3.03	0.04
17.90	3.13	2.90	0.05	20.50	3.27	3.03	0.04
17.95	3.14	2.90	0.05	20.55	3.27	3.04	0.04
18.00	3.14	2.91	0.05	20.60	3.27	3.04	0.04
18.05	3.14	2.91	0.05	20.65	3.27	3.04	0.04
18.10	3.15	2.91	0.04	20.70	3.28	3.04	0.04
18.15	3.15	2.92	0.04	20.75	3.28	3.05	0.04

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.28	3.05	0.04	23.40	3.39	3.15	0.03
20.85	3.28	3.05	0.04	23.45	3.39	3.16	0.03
20.90	3.29	3.05	0.04	23.50	3.39	3.16	0.03
20.95	3.29	3.05	0.04	23.55	3.39	3.16	0.03
21.00	3.29	3.06	0.04	23.60	3.39	3.16	0.03
21.05	3.29	3.06	0.04	23.65	3.40	3.16	0.03
21.10	3.29	3.06	0.04	23.70	3.40	3.17	0.03
21.15	3.30	3.06	0.04	23.75	3.40	3.17	0.03
21.20	3.30	3.07	0.04	23.80	3.40	3.17	0.03
21.25	3.30	3.07	0.04	23.85	3.40	3.17	0.03
21.30	3.30	3.07	0.04	23.90	3.41	3.17	0.03
21.35	3.31	3.07	0.04	23.95	3.41	3.17	0.03
21.40	3.31	3.07	0.04	24.00	**3.41**	**3.18**	0.03
21.45	3.31	3.08	0.04				
21.50	3.31	3.08	0.04				
21.55	3.31	3.08	0.03				
21.60	3.32	3.08	0.03				
21.65	3.32	3.09	0.03				
21.70	3.32	3.09	0.03				
21.75	3.32	3.09	0.03				
21.80	3.32	3.09	0.03				
21.85	3.33	3.09	0.03				
21.90	3.33	3.10	0.03				
21.95	3.33	3.10	0.03				
22.00	3.33	3.10	0.03				
22.05	3.33	3.10	0.03				
22.10	3.34	3.10	0.03				
22.15	3.34	3.11	0.03				
22.20	3.34	3.11	0.03				
22.25	3.34	3.11	0.03				
22.30	3.35	3.11	0.03				
22.35	3.35	3.11	0.03				
22.40	3.35	3.12	0.03				
22.45	3.35	3.12	0.03				
22.50	3.35	3.12	0.03				
22.55	3.36	3.12	0.03				
22.60	3.36	3.12	0.03				
22.65	3.36	3.13	0.03				
22.70	3.36	3.13	0.03				
22.75	3.36	3.13	0.03				
22.80	3.37	3.13	0.03				
22.85	3.37	3.13	0.03				
22.90	3.37	3.14	0.03				
22.95	3.37	3.14	0.03				
23.00	3.37	3.14	0.03				
23.05	3.37	3.14	0.03				
23.10	3.38	3.14	0.03				
23.15	3.38	3.15	0.03				
23.20	3.38	3.15	0.03				
23.25	3.38	3.15	0.03				
23.30	3.38	3.15	0.03				
23.35	3.39	3.15	0.03				

Summary for Subcatchment EDA3 PERV: EDA3 PERV

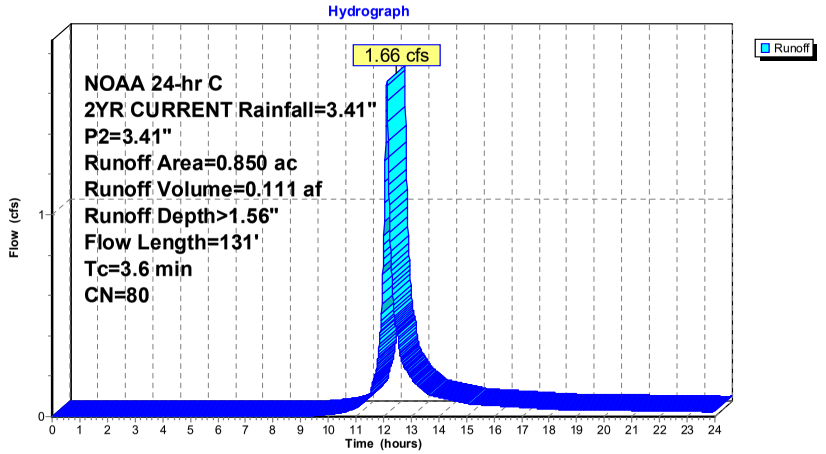
Runoff = 1.66 cfs @ 12.12 hrs, Volume= 0.111 af, Depth> 1.56"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR CURRENT Rainfall=3.41", P2=3.41"

Area (ac)	CN	Description
0.850	80	>75% Grass cover, Good, HSG D
0.850		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	23	0.0200	0.13		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.1	42	0.0150	5.59	6.86	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
3.6	131	Total			

Subcatchment EDA3 PERV: EDA3 PERV



Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.10	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.10	0.00	0.00
0.10	0.00	0.00	0.00	2.70	0.11	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.11	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.11	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.11	0.00	0.00
0.30	0.01	0.00	0.00	2.90	0.12	0.00	0.00
0.35	0.01	0.00	0.00	2.95	0.12	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.12	0.00	0.00
0.45	0.02	0.00	0.00	3.05	0.12	0.00	0.00
0.50	0.02	0.00	0.00	3.10	0.12	0.00	0.00
0.55	0.02	0.00	0.00	3.15	0.13	0.00	0.00
0.60	0.02	0.00	0.00	3.20	0.13	0.00	0.00
0.65	0.02	0.00	0.00	3.25	0.13	0.00	0.00
0.70	0.03	0.00	0.00	3.30	0.13	0.00	0.00
0.75	0.03	0.00	0.00	3.35	0.14	0.00	0.00
0.80	0.03	0.00	0.00	3.40	0.14	0.00	0.00
0.85	0.03	0.00	0.00	3.45	0.14	0.00	0.00
0.90	0.03	0.00	0.00	3.50	0.14	0.00	0.00
0.95	0.04	0.00	0.00	3.55	0.15	0.00	0.00
1.00	0.04	0.00	0.00	3.60	0.15	0.00	0.00
1.05	0.04	0.00	0.00	3.65	0.15	0.00	0.00
1.10	0.04	0.00	0.00	3.70	0.15	0.00	0.00
1.15	0.04	0.00	0.00	3.75	0.15	0.00	0.00
1.20	0.04	0.00	0.00	3.80	0.16	0.00	0.00
1.25	0.05	0.00	0.00	3.85	0.16	0.00	0.00
1.30	0.05	0.00	0.00	3.90	0.16	0.00	0.00
1.35	0.05	0.00	0.00	3.95	0.16	0.00	0.00
1.40	0.05	0.00	0.00	4.00	0.17	0.00	0.00
1.45	0.05	0.00	0.00	4.05	0.17	0.00	0.00
1.50	0.06	0.00	0.00	4.10	0.17	0.00	0.00
1.55	0.06	0.00	0.00	4.15	0.17	0.00	0.00
1.60	0.06	0.00	0.00	4.20	0.18	0.00	0.00
1.65	0.06	0.00	0.00	4.25	0.18	0.00	0.00
1.70	0.06	0.00	0.00	4.30	0.18	0.00	0.00
1.75	0.07	0.00	0.00	4.35	0.18	0.00	0.00
1.80	0.07	0.00	0.00	4.40	0.19	0.00	0.00
1.85	0.07	0.00	0.00	4.45	0.19	0.00	0.00
1.90	0.07	0.00	0.00	4.50	0.19	0.00	0.00
1.95	0.08	0.00	0.00	4.55	0.19	0.00	0.00
2.00	0.08	0.00	0.00	4.60	0.20	0.00	0.00
2.05	0.08	0.00	0.00	4.65	0.20	0.00	0.00
2.10	0.08	0.00	0.00	4.70	0.20	0.00	0.00
2.15	0.08	0.00	0.00	4.75	0.20	0.00	0.00
2.20	0.09	0.00	0.00	4.80	0.21	0.00	0.00
2.25	0.09	0.00	0.00	4.85	0.21	0.00	0.00
2.30	0.09	0.00	0.00	4.90	0.21	0.00	0.00
2.35	0.09	0.00	0.00	4.95	0.21	0.00	0.00
2.40	0.09	0.00	0.00	5.00	0.22	0.00	0.00
2.45	0.10	0.00	0.00	5.05	0.22	0.00	0.00
2.50	0.10	0.00	0.00	5.10	0.22	0.00	0.00
2.55	0.10	0.00	0.00	5.15	0.22	0.00	0.00

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.23	0.00	0.00	7.80	0.39	0.00	0.00
5.25	0.23	0.00	0.00	7.85	0.40	0.00	0.00
5.30	0.23	0.00	0.00	7.90	0.40	0.00	0.00
5.35	0.24	0.00	0.00	7.95	0.40	0.00	0.00
5.40	0.24	0.00	0.00	8.00	0.41	0.00	0.00
5.45	0.24	0.00	0.00	8.05	0.41	0.00	0.00
5.50	0.24	0.00	0.00	8.10	0.42	0.00	0.00
5.55	0.25	0.00	0.00	8.15	0.42	0.00	0.00
5.60	0.25	0.00	0.00	8.20	0.43	0.00	0.00
5.65	0.25	0.00	0.00	8.25	0.43	0.00	0.00
5.70	0.25	0.00	0.00	8.30	0.43	0.00	0.00
5.75	0.26	0.00	0.00	8.35	0.44	0.00	0.00
5.80	0.26	0.00	0.00	8.40	0.44	0.00	0.00
5.85	0.26	0.00	0.00	8.45	0.45	0.00	0.00
5.90	0.26	0.00	0.00	8.50	0.45	0.00	0.00
5.95	0.27	0.00	0.00	8.55	0.46	0.00	0.00
6.00	0.27	0.00	0.00	8.60	0.46	0.00	0.00
6.05	0.27	0.00	0.00	8.65	0.47	0.00	0.00
6.10	0.28	0.00	0.00	8.70	0.47	0.00	0.00
6.15	0.28	0.00	0.00	8.75	0.47	0.00	0.00
6.20	0.28	0.00	0.00	8.80	0.48	0.00	0.00
6.25	0.28	0.00	0.00	8.85	0.48	0.00	0.00
6.30	0.29	0.00	0.00	8.90	0.49	0.00	0.00
6.35	0.29	0.00	0.00	8.95	0.49	0.00	0.00
6.40	0.29	0.00	0.00	9.00	0.50	0.00	0.00
6.45	0.30	0.00	0.00	9.05	0.50	0.00	0.00
6.50	0.30	0.00	0.00	9.10	0.51	0.00	0.00
6.55	0.30	0.00	0.00	9.15	0.51	0.00	0.00
6.60	0.31	0.00	0.00	9.20	0.52	0.00	0.00
6.65	0.31	0.00	0.00	9.25	0.52	0.00	0.00
6.70	0.31	0.00	0.00	9.30	0.53	0.00	0.00
6.75	0.32	0.00	0.00	9.35	0.54	0.00	0.00
6.80	0.32	0.00	0.00	9.40	0.54	0.00	0.00
6.85	0.32	0.00	0.00	9.45	0.55	0.00	0.00
6.90	0.33	0.00	0.00	9.50	0.55	0.00	0.00
6.95	0.33	0.00	0.00	9.55	0.56	0.00	0.00
7.00	0.33	0.00	0.00	9.60	0.57	0.00	0.00
7.05	0.34	0.00	0.00	9.65	0.57	0.00	0.01
7.10	0.34	0.00	0.00	9.70	0.58	0.00	0.01
7.15	0.34	0.00	0.00	9.75	0.59	0.00	0.01
7.20	0.35	0.00	0.00	9.80	0.59	0.00	0.01
7.25	0.35	0.00	0.00	9.85	0.60	0.00	0.01
7.30	0.35	0.00	0.00	9.90	0.61	0.00	0.01
7.35	0.36	0.00	0.00	9.95	0.61	0.01	0.01
7.40	0.36	0.00	0.00	10.00	0.62	0.01	0.01
7.45	0.37	0.00	0.00	10.05	0.63	0.01	0.01
7.50	0.37	0.00	0.00	10.10	0.64	0.01	0.01
7.55	0.37	0.00	0.00	10.15	0.64	0.01	0.01
7.60	0.38	0.00	0.00	10.20	0.65	0.01	0.01
7.65	0.38	0.00	0.00	10.25	0.66	0.01	0.01
7.70	0.38	0.00	0.00	10.30	0.67	0.01	0.02
7.75	0.39	0.00	0.00	10.35	0.68	0.01	0.02

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.69	0.01	0.02	13.00	2.59	0.95	0.19
10.45	0.69	0.01	0.02	13.05	2.61	0.96	0.18
10.50	0.70	0.02	0.02	13.10	2.62	0.97	0.17
10.55	0.71	0.02	0.02	13.15	2.63	0.98	0.16
10.60	0.72	0.02	0.02	13.20	2.64	0.99	0.16
10.65	0.73	0.02	0.03	13.25	2.66	1.00	0.15
10.70	0.74	0.02	0.03	13.30	2.67	1.01	0.15
10.75	0.75	0.02	0.03	13.35	2.68	1.01	0.14
10.80	0.77	0.03	0.03	13.40	2.69	1.02	0.13
10.85	0.78	0.03	0.04	13.45	2.70	1.03	0.13
10.90	0.79	0.03	0.04	13.50	2.71	1.03	0.12
10.95	0.80	0.03	0.04	13.55	2.72	1.04	0.12
11.00	0.82	0.04	0.04	13.60	2.72	1.05	0.11
11.05	0.83	0.04	0.05	13.65	2.73	1.05	0.11
11.10	0.85	0.04	0.05	13.70	2.74	1.06	0.11
11.15	0.87	0.05	0.06	13.75	2.75	1.07	0.10
11.20	0.88	0.05	0.07	13.80	2.76	1.07	0.10
11.25	0.90	0.06	0.07	13.85	2.77	1.08	0.10
11.30	0.92	0.06	0.08	13.90	2.77	1.08	0.10
11.35	0.94	0.07	0.09	13.95	2.78	1.09	0.10
11.40	0.96	0.07	0.09	14.00	2.79	1.09	0.10
11.45	0.99	0.08	0.10	14.05	2.80	1.10	0.09
11.50	1.01	0.09	0.11	14.10	2.80	1.10	0.09
11.55	1.04	0.10	0.13	14.15	2.81	1.11	0.09
11.60	1.08	0.11	0.16	14.20	2.82	1.11	0.09
11.65	1.11	0.12	0.19	14.25	2.82	1.12	0.09
11.70	1.15	0.13	0.21	14.30	2.83	1.12	0.09
11.75	1.20	0.15	0.24	14.35	2.84	1.13	0.09
11.80	1.25	0.17	0.29	14.40	2.84	1.13	0.08
11.85	1.32	0.20	0.36	14.45	2.85	1.14	0.08
11.90	1.39	0.23	0.44	14.50	2.86	1.14	0.08
11.95	1.51	0.29	0.61	14.55	2.86	1.15	0.08
12.00	1.63	0.35	0.82	14.60	2.87	1.15	0.08
12.05	1.82	0.46	1.17	14.65	2.87	1.16	0.08
12.10	2.02	0.58	**1.58**	14.70	2.88	1.16	0.07
12.15	2.09	0.62	**1.46**	14.75	2.89	1.17	0.07
12.20	2.16	0.66	1.10	14.80	2.89	1.17	0.07
12.25	2.21	0.70	0.86	14.85	2.90	1.17	0.07
12.30	2.26	0.73	0.70	14.90	2.90	1.18	0.07
12.35	2.30	0.75	0.57	14.95	2.91	1.18	0.07
12.40	2.33	0.78	0.49	15.00	2.91	1.18	0.07
12.45	2.37	0.80	0.44	15.05	2.92	1.19	0.06
12.50	2.40	0.82	0.41	15.10	2.92	1.19	0.06
12.55	2.42	0.84	0.37	15.15	2.93	1.19	0.06
12.60	2.45	0.85	0.31	15.20	2.93	1.20	0.06
12.65	2.47	0.87	0.28	15.25	2.94	1.20	0.06
12.70	2.49	0.88	0.26	15.30	2.94	1.21	0.06
12.75	2.51	0.89	0.25	15.35	2.94	1.21	0.06
12.80	2.53	0.91	0.23	15.40	2.95	1.21	0.06
12.85	2.54	0.92	0.22	15.45	2.95	1.22	0.06
12.90	2.56	0.93	0.21	15.50	2.96	1.22	0.06
12.95	2.58	0.94	0.20	15.55	2.96	1.22	0.06

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	2.97	1.23	0.06	18.20	3.15	1.36	0.04
15.65	2.97	1.23	0.06	18.25	3.15	1.37	0.04
15.70	2.98	1.23	0.06	18.30	3.16	1.37	0.04
15.75	2.98	1.24	0.06	18.35	3.16	1.37	0.04
15.80	2.98	1.24	0.06	18.40	3.16	1.37	0.04
15.85	2.99	1.24	0.06	18.45	3.16	1.37	0.04
15.90	2.99	1.24	0.05	18.50	3.17	1.38	0.04
15.95	3.00	1.25	0.05	18.55	3.17	1.38	0.04
16.00	3.00	1.25	0.05	18.60	3.17	1.38	0.04
16.05	3.01	1.25	0.05	18.65	3.17	1.38	0.03
16.10	3.01	1.26	0.05	18.70	3.18	1.38	0.03
16.15	3.01	1.26	0.05	18.75	3.18	1.39	0.03
16.20	3.02	1.26	0.05	18.80	3.18	1.39	0.03
16.25	3.02	1.27	0.05	18.85	3.19	1.39	0.03
16.30	3.03	1.27	0.05	18.90	3.19	1.39	0.03
16.35	3.03	1.27	0.05	18.95	3.19	1.39	0.03
16.40	3.03	1.28	0.05	19.00	3.19	1.40	0.03
16.45	3.04	1.28	0.05	19.05	3.20	1.40	0.03
16.50	3.04	1.28	0.05	19.10	3.20	1.40	0.03
16.55	3.04	1.28	0.05	19.15	3.20	1.40	0.03
16.60	3.05	1.29	0.05	19.20	3.20	1.40	0.03
16.65	3.05	1.29	0.05	19.25	3.21	1.41	0.03
16.70	3.06	1.29	0.05	19.30	3.21	1.41	0.03
16.75	3.06	1.29	0.05	19.35	3.21	1.41	0.03
16.80	3.06	1.30	0.05	19.40	3.21	1.41	0.03
16.85	3.07	1.30	0.05	19.45	3.22	1.41	0.03
16.90	3.07	1.30	0.05	19.50	3.22	1.42	0.03
16.95	3.07	1.31	0.05	19.55	3.22	1.42	0.03
17.00	3.08	1.31	0.05	19.60	3.22	1.42	0.03
17.05	3.08	1.31	0.05	19.65	3.23	1.42	0.03
17.10	3.08	1.31	0.04	19.70	3.23	1.42	0.03
17.15	3.09	1.32	0.04	19.75	3.23	1.43	0.03
17.20	3.09	1.32	0.04	19.80	3.23	1.43	0.03
17.25	3.09	1.32	0.04	19.85	3.24	1.43	0.03
17.30	3.10	1.32	0.04	19.90	3.24	1.43	0.03
17.35	3.10	1.33	0.04	19.95	3.24	1.43	0.03
17.40	3.10	1.33	0.04	20.00	3.24	1.44	0.03
17.45	3.11	1.33	0.04	20.05	3.25	1.44	0.03
17.50	3.11	1.33	0.04	20.10	3.25	1.44	0.03
17.55	3.11	1.34	0.04	20.15	3.25	1.44	0.03
17.60	3.12	1.34	0.04	20.20	3.25	1.44	0.03
17.65	3.12	1.34	0.04	20.25	3.26	1.44	0.03
17.70	3.12	1.34	0.04	20.30	3.26	1.45	0.03
17.75	3.13	1.34	0.04	20.35	3.26	1.45	0.03
17.80	3.13	1.35	0.04	20.40	3.26	1.45	0.03
17.85	3.13	1.35	0.04	20.45	3.26	1.45	0.03
17.90	3.13	1.35	0.04	20.50	3.27	1.45	0.03
17.95	3.14	1.35	0.04	20.55	3.27	1.46	0.03
18.00	3.14	1.36	0.04	20.60	3.27	1.46	0.03
18.05	3.14	1.36	0.04	20.65	3.27	1.46	0.03
18.10	3.15	1.36	0.04	20.70	3.28	1.46	0.03
18.15	3.15	1.36	0.04	20.75	3.28	1.46	0.03

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.28	1.46	0.03	23.40	3.39	1.55	0.03
20.85	3.28	1.47	0.03	23.45	3.39	1.55	0.02
20.90	3.29	1.47	0.03	23.50	3.39	1.55	0.02
20.95	3.29	1.47	0.03	23.55	3.39	1.55	0.02
21.00	3.29	1.47	0.03	23.60	3.39	1.55	0.02
21.05	3.29	1.47	0.03	23.65	3.40	1.55	0.02
21.10	3.29	1.47	0.03	23.70	3.40	1.56	0.02
21.15	3.30	1.48	0.03	23.75	3.40	1.56	0.02
21.20	3.30	1.48	0.03	23.80	3.40	1.56	0.02
21.25	3.30	1.48	0.03	23.85	3.40	1.56	0.02
21.30	3.30	1.48	0.03	23.90	3.41	1.56	0.02
21.35	3.31	1.48	0.03	23.95	3.41	1.56	0.03
21.40	3.31	1.48	0.03	24.00	**3.41**	**1.57**	0.03
21.45	3.31	1.49	0.03				
21.50	3.31	1.49	0.03				
21.55	3.31	1.49	0.03				
21.60	3.32	1.49	0.03				
21.65	3.32	1.49	0.03				
21.70	3.32	1.50	0.03				
21.75	3.32	1.50	0.03				
21.80	3.32	1.50	0.03				
21.85	3.33	1.50	0.03				
21.90	3.33	1.50	0.03				
21.95	3.33	1.50	0.03				
22.00	3.33	1.50	0.03				
22.05	3.33	1.51	0.03				
22.10	3.34	1.51	0.03				
22.15	3.34	1.51	0.03				
22.20	3.34	1.51	0.03				
22.25	3.34	1.51	0.03				
22.30	3.35	1.51	0.03				
22.35	3.35	1.52	0.03				
22.40	3.35	1.52	0.03				
22.45	3.35	1.52	0.03				
22.50	3.35	1.52	0.03				
22.55	3.36	1.52	0.03				
22.60	3.36	1.52	0.03				
22.65	3.36	1.53	0.03				
22.70	3.36	1.53	0.03				
22.75	3.36	1.53	0.03				
22.80	3.37	1.53	0.03				
22.85	3.37	1.53	0.03				
22.90	3.37	1.53	0.03				
22.95	3.37	1.53	0.03				
23.00	3.37	1.54	0.03				
23.05	3.37	1.54	0.03				
23.10	3.38	1.54	0.03				
23.15	3.38	1.54	0.03				
23.20	3.38	1.54	0.03				
23.25	3.38	1.54	0.03				
23.30	3.38	1.54	0.03				
23.35	3.39	1.55	0.03				

Summary for Subcatchment EDA4 IMP: EDA4 IMP

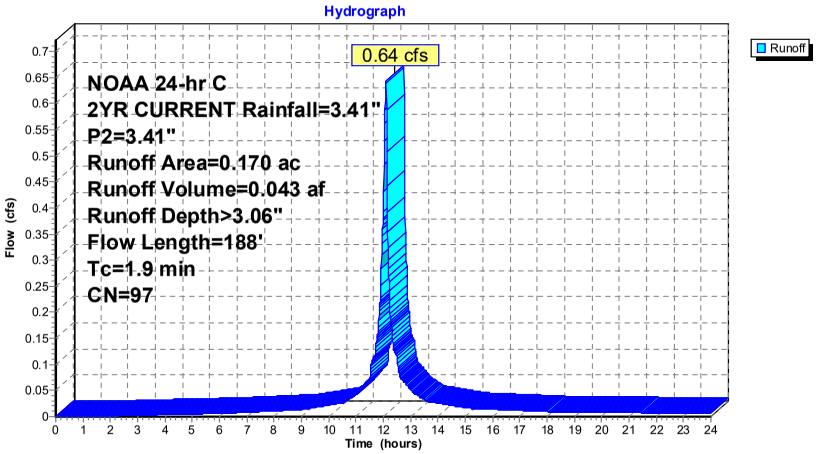
Runoff = 0.64 cfs @ 12.10 hrs, Volume= 0.043 af, Depth> 3.06"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR CURRENT Rainfall=3.41", P2=3.41"

	Area (ac)	CN	Description
*	0.120	98	Impervious vehicular
	0.050	96	Gravel surface, HSG D
	0.170	97	Weighted Average
	0.050		29.41% Pervious Area
	0.120		70.59% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	100	0.0160	1.30		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.6	88	0.0150	2.49		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
1.9	188	Total			

Subcatchment EDA4 IMP: EDA4 IMP



Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.10	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.10	0.01	0.00
0.10	0.00	0.00	0.00	2.70	0.11	0.01	0.00
0.15	0.01	0.00	0.00	2.75	0.11	0.01	0.00
0.20	0.01	0.00	0.00	2.80	0.11	0.01	0.00
0.25	0.01	0.00	0.00	2.85	0.11	0.01	0.00
0.30	0.01	0.00	0.00	2.90	0.12	0.01	0.00
0.35	0.01	0.00	0.00	2.95	0.12	0.01	0.00
0.40	0.02	0.00	0.00	3.00	0.12	0.01	0.00
0.45	0.02	0.00	0.00	3.05	0.12	0.01	0.00
0.50	0.02	0.00	0.00	3.10	0.12	0.01	0.00
0.55	0.02	0.00	0.00	3.15	0.13	0.01	0.00
0.60	0.02	0.00	0.00	3.20	0.13	0.01	0.00
0.65	0.02	0.00	0.00	3.25	0.13	0.01	0.00
0.70	0.03	0.00	0.00	3.30	0.13	0.01	0.00
0.75	0.03	0.00	0.00	3.35	0.14	0.01	0.00
0.80	0.03	0.00	0.00	3.40	0.14	0.02	0.00
0.85	0.03	0.00	0.00	3.45	0.14	0.02	0.00
0.90	0.03	0.00	0.00	3.50	0.14	0.02	0.00
0.95	0.04	0.00	0.00	3.55	0.15	0.02	0.00
1.00	0.04	0.00	0.00	3.60	0.15	0.02	0.00
1.05	0.04	0.00	0.00	3.65	0.15	0.02	0.00
1.10	0.04	0.00	0.00	3.70	0.15	0.02	0.00
1.15	0.04	0.00	0.00	3.75	0.15	0.02	0.00
1.20	0.04	0.00	0.00	3.80	0.16	0.02	0.00
1.25	0.05	0.00	0.00	3.85	0.16	0.02	0.00
1.30	0.05	0.00	0.00	3.90	0.16	0.02	0.00
1.35	0.05	0.00	0.00	3.95	0.16	0.03	0.00
1.40	0.05	0.00	0.00	4.00	0.17	0.03	0.00
1.45	0.05	0.00	0.00	4.05	0.17	0.03	0.00
1.50	0.06	0.00	0.00	4.10	0.17	0.03	0.00
1.55	0.06	0.00	0.00	4.15	0.17	0.03	0.00
1.60	0.06	0.00	0.00	4.20	0.18	0.03	0.00
1.65	0.06	0.00	0.00	4.25	0.18	0.03	0.00
1.70	0.06	0.00	0.00	4.30	0.18	0.03	0.00
1.75	0.07	0.00	0.00	4.35	0.18	0.03	0.00
1.80	0.07	0.00	0.00	4.40	0.19	0.04	0.00
1.85	0.07	0.00	0.00	4.45	0.19	0.04	0.00
1.90	0.07	0.00	0.00	4.50	0.19	0.04	0.00
1.95	0.08	0.00	0.00	4.55	0.19	0.04	0.00
2.00	0.08	0.00	0.00	4.60	0.20	0.04	0.00
2.05	0.08	0.00	0.00	4.65	0.20	0.04	0.00
2.10	0.08	0.00	0.00	4.70	0.20	0.04	0.00
2.15	0.08	0.00	0.00	4.75	0.20	0.04	0.00
2.20	0.09	0.00	0.00	4.80	0.21	0.05	0.00
2.25	0.09	0.00	0.00	4.85	0.21	0.05	0.00
2.30	0.09	0.00	0.00	4.90	0.21	0.05	0.00
2.35	0.09	0.00	0.00	4.95	0.21	0.05	0.00
2.40	0.09	0.00	0.00	5.00	0.22	0.05	0.00
2.45	0.10	0.00	0.00	5.05	0.22	0.05	0.00
2.50	0.10	0.00	0.00	5.10	0.22	0.05	0.00
2.55	0.10	0.00	0.00	5.15	0.22	0.06	0.01

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.23	0.06	0.01	7.80	0.39	0.17	0.01
5.25	0.23	0.06	0.01	7.85	0.40	0.17	0.01
5.30	0.23	0.06	0.01	7.90	0.40	0.18	0.01
5.35	0.24	0.06	0.01	7.95	0.40	0.18	0.01
5.40	0.24	0.06	0.01	8.00	0.41	0.18	0.01
5.45	0.24	0.07	0.01	8.05	0.41	0.19	0.01
5.50	0.24	0.07	0.01	8.10	0.42	0.19	0.01
5.55	0.25	0.07	0.01	8.15	0.42	0.19	0.01
5.60	0.25	0.07	0.01	8.20	0.43	0.20	0.01
5.65	0.25	0.07	0.01	8.25	0.43	0.20	0.01
5.70	0.25	0.07	0.01	8.30	0.43	0.20	0.01
5.75	0.26	0.08	0.01	8.35	0.44	0.21	0.01
5.80	0.26	0.08	0.01	8.40	0.44	0.21	0.01
5.85	0.26	0.08	0.01	8.45	0.45	0.21	0.01
5.90	0.26	0.08	0.01	8.50	0.45	0.22	0.01
5.95	0.27	0.08	0.01	8.55	0.46	0.22	0.01
6.00	0.27	0.08	0.01	8.60	0.46	0.22	0.01
6.05	0.27	0.09	0.01	8.65	0.47	0.23	0.01
6.10	0.28	0.09	0.01	8.70	0.47	0.23	0.01
6.15	0.28	0.09	0.01	8.75	0.47	0.24	0.01
6.20	0.28	0.09	0.01	8.80	0.48	0.24	0.01
6.25	0.28	0.09	0.01	8.85	0.48	0.24	0.01
6.30	0.29	0.10	0.01	8.90	0.49	0.25	0.01
6.35	0.29	0.10	0.01	8.95	0.49	0.25	0.01
6.40	0.29	0.10	0.01	9.00	0.50	0.26	0.01
6.45	0.30	0.10	0.01	9.05	0.50	0.26	0.01
6.50	0.30	0.10	0.01	9.10	0.51	0.26	0.01
6.55	0.30	0.11	0.01	9.15	0.51	0.27	0.01
6.60	0.31	0.11	0.01	9.20	0.52	0.27	0.02
6.65	0.31	0.11	0.01	9.25	0.52	0.28	0.02
6.70	0.31	0.11	0.01	9.30	0.53	0.28	0.02
6.75	0.32	0.11	0.01	9.35	0.54	0.29	0.02
6.80	0.32	0.12	0.01	9.40	0.54	0.29	0.02
6.85	0.32	0.12	0.01	9.45	0.55	0.30	0.02
6.90	0.33	0.12	0.01	9.50	0.55	0.30	0.02
6.95	0.33	0.12	0.01	9.55	0.56	0.31	0.02
7.00	0.33	0.13	0.01	9.60	0.57	0.31	0.02
7.05	0.34	0.13	0.01	9.65	0.57	0.32	0.02
7.10	0.34	0.13	0.01	9.70	0.58	0.32	0.02
7.15	0.34	0.13	0.01	9.75	0.59	0.33	0.02
7.20	0.35	0.14	0.01	9.80	0.59	0.34	0.02
7.25	0.35	0.14	0.01	9.85	0.60	0.34	0.02
7.30	0.35	0.14	0.01	9.90	0.61	0.35	0.02
7.35	0.36	0.14	0.01	9.95	0.61	0.35	0.02
7.40	0.36	0.15	0.01	10.00	0.62	0.36	0.02
7.45	0.37	0.15	0.01	10.05	0.63	0.37	0.02
7.50	0.37	0.15	0.01	10.10	0.64	0.37	0.02
7.55	0.37	0.16	0.01	10.15	0.64	0.38	0.02
7.60	0.38	0.16	0.01	10.20	0.65	0.39	0.02
7.65	0.38	0.16	0.01	10.25	0.66	0.39	0.02
7.70	0.38	0.16	0.01	10.30	0.67	0.40	0.02
7.75	0.39	0.17	0.01	10.35	0.68	0.41	0.03

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.69	0.42	0.03	13.00	2.59	2.25	0.05
10.45	0.69	0.42	0.03	13.05	2.61	2.27	0.05
10.50	0.70	0.43	0.03	13.10	2.62	2.28	0.05
10.55	0.71	0.44	0.03	13.15	2.63	2.29	0.04
10.60	0.72	0.45	0.03	13.20	2.64	2.31	0.04
10.65	0.73	0.46	0.03	13.25	2.66	2.32	0.04
10.70	0.74	0.47	0.03	13.30	2.67	2.33	0.04
10.75	0.75	0.48	0.03	13.35	2.68	2.34	0.04
10.80	0.77	0.49	0.04	13.40	2.69	2.35	0.04
10.85	0.78	0.50	0.04	13.45	2.70	2.36	0.03
10.90	0.79	0.51	0.04	13.50	2.71	2.37	0.03
10.95	0.80	0.52	0.04	13.55	2.72	2.38	0.03
11.00	0.82	0.54	0.04	13.60	2.72	2.39	0.03
11.05	0.83	0.55	0.05	13.65	2.73	2.39	0.03
11.10	0.85	0.57	0.05	13.70	2.74	2.40	0.03
11.15	0.87	0.58	0.05	13.75	2.75	2.41	0.03
11.20	0.88	0.60	0.05	13.80	2.76	2.42	0.03
11.25	0.90	0.61	0.06	13.85	2.77	2.43	0.03
11.30	0.92	0.63	0.06	13.90	2.77	2.43	0.03
11.35	0.94	0.65	0.06	13.95	2.78	2.44	0.03
11.40	0.96	0.67	0.07	14.00	2.79	2.45	0.03
11.45	0.99	0.69	0.07	14.05	2.80	2.46	0.03
11.50	1.01	0.71	0.07	14.10	2.80	2.46	0.02
11.55	1.04	0.75	0.10	14.15	2.81	2.47	0.02
11.60	1.08	0.78	0.11	14.20	2.82	2.48	0.02
11.65	1.11	0.81	0.11	14.25	2.82	2.48	0.02
11.70	1.15	0.85	0.12	14.30	2.83	2.49	0.02
11.75	1.20	0.89	0.15	14.35	2.84	2.50	0.02
11.80	1.25	0.94	0.16	14.40	2.84	2.50	0.02
11.85	1.32	1.01	0.20	14.45	2.85	2.51	0.02
11.90	1.39	1.07	0.22	14.50	2.86	2.52	0.02
11.95	1.51	1.19	0.33	14.55	2.86	2.52	0.02
12.00	1.63	1.31	0.38	14.60	2.87	2.53	0.02
12.05	1.82	1.50	0.56	14.65	2.87	2.53	0.02
12.10	2.02	1.69	**0.64**	14.70	2.88	2.54	0.02
12.15	2.09	1.76	0.39	14.75	2.89	2.55	0.02
12.20	2.16	1.83	0.27	14.80	2.89	2.55	0.02
12.25	2.21	1.88	0.20	14.85	2.90	2.56	0.02
12.30	2.26	1.93	0.17	14.90	2.90	2.56	0.02
12.35	2.30	1.96	0.14	14.95	2.91	2.57	0.02
12.40	2.33	2.00	0.13	15.00	2.91	2.57	0.02
12.45	2.37	2.03	0.12	15.05	2.92	2.58	0.02
12.50	2.40	2.07	0.12	15.10	2.92	2.58	0.02
12.55	2.42	2.09	0.09	15.15	2.93	2.59	0.02
12.60	2.45	2.11	0.08	15.20	2.93	2.59	0.02
12.65	2.47	2.13	0.07	15.25	2.94	2.59	0.02
12.70	2.49	2.15	0.07	15.30	2.94	2.60	0.02
12.75	2.51	2.17	0.07	15.35	2.94	2.60	0.02
12.80	2.53	2.19	0.06	15.40	2.95	2.61	0.02
12.85	2.54	2.21	0.06	15.45	2.95	2.61	0.02
12.90	2.56	2.22	0.06	15.50	2.96	2.62	0.02
12.95	2.58	2.24	0.05	15.55	2.96	2.62	0.02

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	2.97	2.63	0.02	18.20	3.15	2.81	0.01
15.65	2.97	2.63	0.01	18.25	3.15	2.81	0.01
15.70	2.98	2.63	0.01	18.30	3.16	2.81	0.01
15.75	2.98	2.64	0.01	18.35	3.16	2.82	0.01
15.80	2.98	2.64	0.01	18.40	3.16	2.82	0.01
15.85	2.99	2.65	0.01	18.45	3.16	2.82	0.01
15.90	2.99	2.65	0.01	18.50	3.17	2.82	0.01
15.95	3.00	2.66	0.01	18.55	3.17	2.83	0.01
16.00	3.00	2.66	0.01	18.60	3.17	2.83	0.01
16.05	3.01	2.66	0.01	18.65	3.17	2.83	0.01
16.10	3.01	2.67	0.01	18.70	3.18	2.83	0.01
16.15	3.01	2.67	0.01	18.75	3.18	2.84	0.01
16.20	3.02	2.68	0.01	18.80	3.18	2.84	0.01
16.25	3.02	2.68	0.01	18.85	3.19	2.84	0.01
16.30	3.03	2.68	0.01	18.90	3.19	2.84	0.01
16.35	3.03	2.69	0.01	18.95	3.19	2.85	0.01
16.40	3.03	2.69	0.01	19.00	3.19	2.85	0.01
16.45	3.04	2.70	0.01	19.05	3.20	2.85	0.01
16.50	3.04	2.70	0.01	19.10	3.20	2.85	0.01
16.55	3.04	2.70	0.01	19.15	3.20	2.86	0.01
16.60	3.05	2.71	0.01	19.20	3.20	2.86	0.01
16.65	3.05	2.71	0.01	19.25	3.21	2.86	0.01
16.70	3.06	2.71	0.01	19.30	3.21	2.87	0.01
16.75	3.06	2.72	0.01	19.35	3.21	2.87	0.01
16.80	3.06	2.72	0.01	19.40	3.21	2.87	0.01
16.85	3.07	2.72	0.01	19.45	3.22	2.87	0.01
16.90	3.07	2.73	0.01	19.50	3.22	2.87	0.01
16.95	3.07	2.73	0.01	19.55	3.22	2.88	0.01
17.00	3.08	2.74	0.01	19.60	3.22	2.88	0.01
17.05	3.08	2.74	0.01	19.65	3.23	2.88	0.01
17.10	3.08	2.74	0.01	19.70	3.23	2.88	0.01
17.15	3.09	2.75	0.01	19.75	3.23	2.89	0.01
17.20	3.09	2.75	0.01	19.80	3.23	2.89	0.01
17.25	3.09	2.75	0.01	19.85	3.24	2.89	0.01
17.30	3.10	2.75	0.01	19.90	3.24	2.89	0.01
17.35	3.10	2.76	0.01	19.95	3.24	2.90	0.01
17.40	3.10	2.76	0.01	20.00	3.24	2.90	0.01
17.45	3.11	2.76	0.01	20.05	3.25	2.90	0.01
17.50	3.11	2.77	0.01	20.10	3.25	2.90	0.01
17.55	3.11	2.77	0.01	20.15	3.25	2.91	0.01
17.60	3.12	2.77	0.01	20.20	3.25	2.91	0.01
17.65	3.12	2.78	0.01	20.25	3.26	2.91	0.01
17.70	3.12	2.78	0.01	20.30	3.26	2.91	0.01
17.75	3.13	2.78	0.01	20.35	3.26	2.92	0.01
17.80	3.13	2.79	0.01	20.40	3.26	2.92	0.01
17.85	3.13	2.79	0.01	20.45	3.26	2.92	0.01
17.90	3.13	2.79	0.01	20.50	3.27	2.92	0.01
17.95	3.14	2.79	0.01	20.55	3.27	2.93	0.01
18.00	3.14	2.80	0.01	20.60	3.27	2.93	0.01
18.05	3.14	2.80	0.01	20.65	3.27	2.93	0.01
18.10	3.15	2.80	0.01	20.70	3.28	2.93	0.01
18.15	3.15	2.81	0.01	20.75	3.28	2.93	0.01

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.28	2.94	0.01	23.40	3.39	3.04	0.01
20.85	3.28	2.94	0.01	23.45	3.39	3.04	0.01
20.90	3.29	2.94	0.01	23.50	3.39	3.05	0.01
20.95	3.29	2.94	0.01	23.55	3.39	3.05	0.01
21.00	3.29	2.95	0.01	23.60	3.39	3.05	0.01
21.05	3.29	2.95	0.01	23.65	3.40	3.05	0.01
21.10	3.29	2.95	0.01	23.70	3.40	3.05	0.01
21.15	3.30	2.95	0.01	23.75	3.40	3.06	0.01
21.20	3.30	2.95	0.01	23.80	3.40	3.06	0.01
21.25	3.30	2.96	0.01	23.85	3.40	3.06	0.01
21.30	3.30	2.96	0.01	23.90	3.41	3.06	0.01
21.35	3.31	2.96	0.01	23.95	3.41	3.06	0.01
21.40	3.31	2.96	0.01	24.00	**3.41**	**3.07**	0.01
21.45	3.31	2.97	0.01				
21.50	3.31	2.97	0.01				
21.55	3.31	2.97	0.01				
21.60	3.32	2.97	0.01				
21.65	3.32	2.97	0.01				
21.70	3.32	2.98	0.01				
21.75	3.32	2.98	0.01				
21.80	3.32	2.98	0.01				
21.85	3.33	2.98	0.01				
21.90	3.33	2.98	0.01				
21.95	3.33	2.99	0.01				
22.00	3.33	2.99	0.01				
22.05	3.33	2.99	0.01				
22.10	3.34	2.99	0.01				
22.15	3.34	2.99	0.01				
22.20	3.34	3.00	0.01				
22.25	3.34	3.00	0.01				
22.30	3.35	3.00	0.01				
22.35	3.35	3.00	0.01				
22.40	3.35	3.00	0.01				
22.45	3.35	3.01	0.01				
22.50	3.35	3.01	0.01				
22.55	3.36	3.01	0.01				
22.60	3.36	3.01	0.01				
22.65	3.36	3.01	0.01				
22.70	3.36	3.02	0.01				
22.75	3.36	3.02	0.01				
22.80	3.37	3.02	0.01				
22.85	3.37	3.02	0.01				
22.90	3.37	3.02	0.01				
22.95	3.37	3.03	0.01				
23.00	3.37	3.03	0.01				
23.05	3.37	3.03	0.01				
23.10	3.38	3.03	0.01				
23.15	3.38	3.03	0.01				
23.20	3.38	3.04	0.01				
23.25	3.38	3.04	0.01				
23.30	3.38	3.04	0.01				
23.35	3.39	3.04	0.01				

Summary for Subcatchment EDA4 PERV: EDA4 PERV

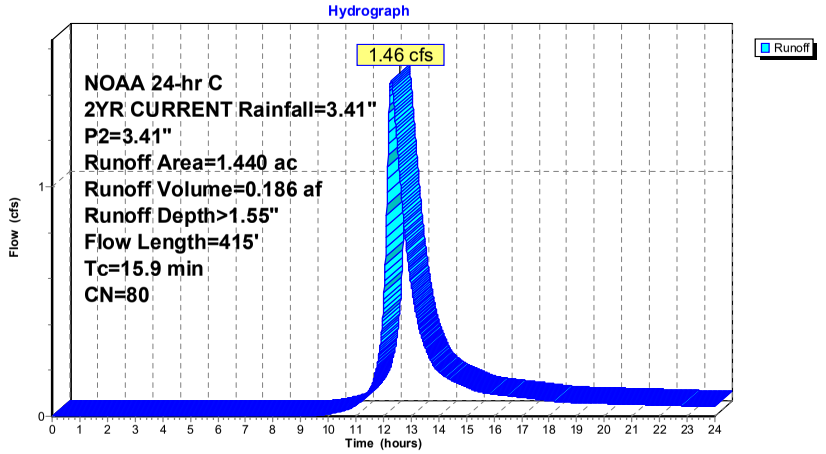
Runoff = 1.46 cfs @ 12.27 hrs, Volume= 0.186 af, Depth> 1.55"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR CURRENT Rainfall=3.41", P2=3.41"

Area (ac)	CN	Description
1.440	80	>75% Grass cover, Good, HSG D
1.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	100	0.0080	0.12		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
1.1	115	0.0140	1.77		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
0.5	100	0.0039	3.22	5.69	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.6	100	0.0020	2.79	8.77	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
15.9	415	Total			

Subcatchment EDA4 PERV: EDA4 PERV



Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.10	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.10	0.00	0.00
0.10	0.00	0.00	0.00	2.70	0.11	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.11	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.11	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.11	0.00	0.00
0.30	0.01	0.00	0.00	2.90	0.12	0.00	0.00
0.35	0.01	0.00	0.00	2.95	0.12	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.12	0.00	0.00
0.45	0.02	0.00	0.00	3.05	0.12	0.00	0.00
0.50	0.02	0.00	0.00	3.10	0.12	0.00	0.00
0.55	0.02	0.00	0.00	3.15	0.13	0.00	0.00
0.60	0.02	0.00	0.00	3.20	0.13	0.00	0.00
0.65	0.02	0.00	0.00	3.25	0.13	0.00	0.00
0.70	0.03	0.00	0.00	3.30	0.13	0.00	0.00
0.75	0.03	0.00	0.00	3.35	0.14	0.00	0.00
0.80	0.03	0.00	0.00	3.40	0.14	0.00	0.00
0.85	0.03	0.00	0.00	3.45	0.14	0.00	0.00
0.90	0.03	0.00	0.00	3.50	0.14	0.00	0.00
0.95	0.04	0.00	0.00	3.55	0.15	0.00	0.00
1.00	0.04	0.00	0.00	3.60	0.15	0.00	0.00
1.05	0.04	0.00	0.00	3.65	0.15	0.00	0.00
1.10	0.04	0.00	0.00	3.70	0.15	0.00	0.00
1.15	0.04	0.00	0.00	3.75	0.15	0.00	0.00
1.20	0.04	0.00	0.00	3.80	0.16	0.00	0.00
1.25	0.05	0.00	0.00	3.85	0.16	0.00	0.00
1.30	0.05	0.00	0.00	3.90	0.16	0.00	0.00
1.35	0.05	0.00	0.00	3.95	0.16	0.00	0.00
1.40	0.05	0.00	0.00	4.00	0.17	0.00	0.00
1.45	0.05	0.00	0.00	4.05	0.17	0.00	0.00
1.50	0.06	0.00	0.00	4.10	0.17	0.00	0.00
1.55	0.06	0.00	0.00	4.15	0.17	0.00	0.00
1.60	0.06	0.00	0.00	4.20	0.18	0.00	0.00
1.65	0.06	0.00	0.00	4.25	0.18	0.00	0.00
1.70	0.06	0.00	0.00	4.30	0.18	0.00	0.00
1.75	0.07	0.00	0.00	4.35	0.18	0.00	0.00
1.80	0.07	0.00	0.00	4.40	0.19	0.00	0.00
1.85	0.07	0.00	0.00	4.45	0.19	0.00	0.00
1.90	0.07	0.00	0.00	4.50	0.19	0.00	0.00
1.95	0.08	0.00	0.00	4.55	0.19	0.00	0.00
2.00	0.08	0.00	0.00	4.60	0.20	0.00	0.00
2.05	0.08	0.00	0.00	4.65	0.20	0.00	0.00
2.10	0.08	0.00	0.00	4.70	0.20	0.00	0.00
2.15	0.08	0.00	0.00	4.75	0.20	0.00	0.00
2.20	0.09	0.00	0.00	4.80	0.21	0.00	0.00
2.25	0.09	0.00	0.00	4.85	0.21	0.00	0.00
2.30	0.09	0.00	0.00	4.90	0.21	0.00	0.00
2.35	0.09	0.00	0.00	4.95	0.21	0.00	0.00
2.40	0.09	0.00	0.00	5.00	0.22	0.00	0.00
2.45	0.10	0.00	0.00	5.05	0.22	0.00	0.00
2.50	0.10	0.00	0.00	5.10	0.22	0.00	0.00
2.55	0.10	0.00	0.00	5.15	0.22	0.00	0.00

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.23	0.00	0.00	7.80	0.39	0.00	0.00
5.25	0.23	0.00	0.00	7.85	0.40	0.00	0.00
5.30	0.23	0.00	0.00	7.90	0.40	0.00	0.00
5.35	0.24	0.00	0.00	7.95	0.40	0.00	0.00
5.40	0.24	0.00	0.00	8.00	0.41	0.00	0.00
5.45	0.24	0.00	0.00	8.05	0.41	0.00	0.00
5.50	0.24	0.00	0.00	8.10	0.42	0.00	0.00
5.55	0.25	0.00	0.00	8.15	0.42	0.00	0.00
5.60	0.25	0.00	0.00	8.20	0.43	0.00	0.00
5.65	0.25	0.00	0.00	8.25	0.43	0.00	0.00
5.70	0.25	0.00	0.00	8.30	0.43	0.00	0.00
5.75	0.26	0.00	0.00	8.35	0.44	0.00	0.00
5.80	0.26	0.00	0.00	8.40	0.44	0.00	0.00
5.85	0.26	0.00	0.00	8.45	0.45	0.00	0.00
5.90	0.26	0.00	0.00	8.50	0.45	0.00	0.00
5.95	0.27	0.00	0.00	8.55	0.46	0.00	0.00
6.00	0.27	0.00	0.00	8.60	0.46	0.00	0.00
6.05	0.27	0.00	0.00	8.65	0.47	0.00	0.00
6.10	0.28	0.00	0.00	8.70	0.47	0.00	0.00
6.15	0.28	0.00	0.00	8.75	0.47	0.00	0.00
6.20	0.28	0.00	0.00	8.80	0.48	0.00	0.00
6.25	0.28	0.00	0.00	8.85	0.48	0.00	0.00
6.30	0.29	0.00	0.00	8.90	0.49	0.00	0.00
6.35	0.29	0.00	0.00	8.95	0.49	0.00	0.00
6.40	0.29	0.00	0.00	9.00	0.50	0.00	0.00
6.45	0.30	0.00	0.00	9.05	0.50	0.00	0.00
6.50	0.30	0.00	0.00	9.10	0.51	0.00	0.00
6.55	0.30	0.00	0.00	9.15	0.51	0.00	0.00
6.60	0.31	0.00	0.00	9.20	0.52	0.00	0.00
6.65	0.31	0.00	0.00	9.25	0.52	0.00	0.00
6.70	0.31	0.00	0.00	9.30	0.53	0.00	0.00
6.75	0.32	0.00	0.00	9.35	0.54	0.00	0.00
6.80	0.32	0.00	0.00	9.40	0.54	0.00	0.00
6.85	0.32	0.00	0.00	9.45	0.55	0.00	0.00
6.90	0.33	0.00	0.00	9.50	0.55	0.00	0.00
6.95	0.33	0.00	0.00	9.55	0.56	0.00	0.00
7.00	0.33	0.00	0.00	9.60	0.57	0.00	0.00
7.05	0.34	0.00	0.00	9.65	0.57	0.00	0.00
7.10	0.34	0.00	0.00	9.70	0.58	0.00	0.00
7.15	0.34	0.00	0.00	9.75	0.59	0.00	0.01
7.20	0.35	0.00	0.00	9.80	0.59	0.00	0.01
7.25	0.35	0.00	0.00	9.85	0.60	0.00	0.01
7.30	0.35	0.00	0.00	9.90	0.61	0.00	0.01
7.35	0.36	0.00	0.00	9.95	0.61	0.01	0.01
7.40	0.36	0.00	0.00	10.00	0.62	0.01	0.01
7.45	0.37	0.00	0.00	10.05	0.63	0.01	0.01
7.50	0.37	0.00	0.00	10.10	0.64	0.01	0.01
7.55	0.37	0.00	0.00	10.15	0.64	0.01	0.01
7.60	0.38	0.00	0.00	10.20	0.65	0.01	0.01
7.65	0.38	0.00	0.00	10.25	0.66	0.01	0.02
7.70	0.38	0.00	0.00	10.30	0.67	0.01	0.02
7.75	0.39	0.00	0.00	10.35	0.68	0.01	0.02

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.69	0.01	0.02	13.00	2.59	0.95	0.57
10.45	0.69	0.01	0.02	13.05	2.61	0.96	0.53
10.50	0.70	0.02	0.02	13.10	2.62	0.97	0.50
10.55	0.71	0.02	0.02	13.15	2.63	0.98	0.46
10.60	0.72	0.02	0.03	13.20	2.64	0.99	0.43
10.65	0.73	0.02	0.03	13.25	2.66	1.00	0.40
10.70	0.74	0.02	0.03	13.30	2.67	1.01	0.38
10.75	0.75	0.02	0.03	13.35	2.68	1.01	0.36
10.80	0.77	0.03	0.04	13.40	2.69	1.02	0.34
10.85	0.78	0.03	0.04	13.45	2.70	1.03	0.32
10.90	0.79	0.03	0.04	13.50	2.71	1.03	0.30
10.95	0.80	0.03	0.05	13.55	2.72	1.04	0.29
11.00	0.82	0.04	0.05	13.60	2.72	1.05	0.27
11.05	0.83	0.04	0.05	13.65	2.73	1.05	0.26
11.10	0.85	0.04	0.06	13.70	2.74	1.06	0.25
11.15	0.87	0.05	0.06	13.75	2.75	1.07	0.23
11.20	0.88	0.05	0.07	13.80	2.76	1.07	0.22
11.25	0.90	0.06	0.08	13.85	2.77	1.08	0.21
11.30	0.92	0.06	0.08	13.90	2.77	1.08	0.21
11.35	0.94	0.07	0.09	13.95	2.78	1.09	0.20
11.40	0.96	0.07	0.10	14.00	2.79	1.09	0.19
11.45	0.99	0.08	0.11	14.05	2.80	1.10	0.19
11.50	1.01	0.09	0.12	14.10	2.80	1.10	0.18
11.55	1.04	0.10	0.13	14.15	2.81	1.11	0.18
11.60	1.08	0.11	0.14	14.20	2.82	1.11	0.17
11.65	1.11	0.12	0.16	14.25	2.82	1.12	0.17
11.70	1.15	0.13	0.19	14.30	2.83	1.12	0.17
11.75	1.20	0.15	0.21	14.35	2.84	1.13	0.16
11.80	1.25	0.17	0.24	14.40	2.84	1.13	0.16
11.85	1.32	0.20	0.28	14.45	2.85	1.14	0.16
11.90	1.39	0.23	0.33	14.50	2.86	1.14	0.15
11.95	1.51	0.29	0.39	14.55	2.86	1.15	0.15
12.00	1.63	0.35	0.49	14.60	2.87	1.15	0.15
12.05	1.82	0.46	0.62	14.65	2.87	1.16	0.15
12.10	2.02	0.58	0.83	14.70	2.88	1.16	0.14
12.15	2.09	0.62	1.08	14.75	2.89	1.17	0.14
12.20	2.16	0.66	1.32	14.80	2.89	1.17	0.14
12.25	2.21	0.70	**1.45**	14.85	2.90	1.17	0.14
12.30	2.26	0.73	**1.46**	14.90	2.90	1.18	0.13
12.35	2.30	0.75	1.40	14.95	2.91	1.18	0.13
12.40	2.33	0.78	1.33	15.00	2.91	1.18	0.13
12.45	2.37	0.80	1.25	15.05	2.92	1.19	0.12
12.50	2.40	0.82	1.18	15.10	2.92	1.19	0.12
12.55	2.42	0.84	1.10	15.15	2.93	1.19	0.12
12.60	2.45	0.85	1.03	15.20	2.93	1.20	0.12
12.65	2.47	0.87	0.96	15.25	2.94	1.20	0.11
12.70	2.49	0.88	0.89	15.30	2.94	1.21	0.11
12.75	2.51	0.89	0.82	15.35	2.94	1.21	0.11
12.80	2.53	0.91	0.76	15.40	2.95	1.21	0.11
12.85	2.54	0.92	0.71	15.45	2.95	1.22	0.11
12.90	2.56	0.93	0.66	15.50	2.96	1.22	0.11
12.95	2.58	0.94	0.62	15.55	2.96	1.22	0.10

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	2.97	1.23	0.10	18.20	3.15	1.36	0.06
15.65	2.97	1.23	0.10	18.25	3.15	1.37	0.06
15.70	2.98	1.23	0.10	18.30	3.16	1.37	0.06
15.75	2.98	1.24	0.10	18.35	3.16	1.37	0.06
15.80	2.98	1.24	0.10	18.40	3.16	1.37	0.06
15.85	2.99	1.24	0.10	18.45	3.16	1.37	0.06
15.90	2.99	1.24	0.10	18.50	3.17	1.38	0.06
15.95	3.00	1.25	0.10	18.55	3.17	1.38	0.06
16.00	3.00	1.25	0.10	18.60	3.17	1.38	0.06
16.05	3.01	1.25	0.10	18.65	3.17	1.38	0.06
16.10	3.01	1.26	0.09	18.70	3.18	1.38	0.06
16.15	3.01	1.26	0.09	18.75	3.18	1.39	0.06
16.20	3.02	1.26	0.09	18.80	3.18	1.39	0.06
16.25	3.02	1.27	0.09	18.85	3.19	1.39	0.06
16.30	3.03	1.27	0.09	18.90	3.19	1.39	0.06
16.35	3.03	1.27	0.09	18.95	3.19	1.39	0.06
16.40	3.03	1.28	0.09	19.00	3.19	1.40	0.06
16.45	3.04	1.28	0.09	19.05	3.20	1.40	0.06
16.50	3.04	1.28	0.09	19.10	3.20	1.40	0.06
16.55	3.04	1.28	0.09	19.15	3.20	1.40	0.06
16.60	3.05	1.29	0.09	19.20	3.20	1.40	0.06
16.65	3.05	1.29	0.09	19.25	3.21	1.41	0.06
16.70	3.06	1.29	0.09	19.30	3.21	1.41	0.06
16.75	3.06	1.29	0.09	19.35	3.21	1.41	0.06
16.80	3.06	1.30	0.08	19.40	3.21	1.41	0.06
16.85	3.07	1.30	0.08	19.45	3.22	1.41	0.06
16.90	3.07	1.30	0.08	19.50	3.22	1.42	0.06
16.95	3.07	1.31	0.08	19.55	3.22	1.42	0.06
17.00	3.08	1.31	0.08	19.60	3.22	1.42	0.06
17.05	3.08	1.31	0.08	19.65	3.23	1.42	0.06
17.10	3.08	1.31	0.08	19.70	3.23	1.42	0.06
17.15	3.09	1.32	0.08	19.75	3.23	1.43	0.06
17.20	3.09	1.32	0.08	19.80	3.23	1.43	0.06
17.25	3.09	1.32	0.08	19.85	3.24	1.43	0.06
17.30	3.10	1.32	0.08	19.90	3.24	1.43	0.06
17.35	3.10	1.33	0.08	19.95	3.24	1.43	0.06
17.40	3.10	1.33	0.08	20.00	3.24	1.44	0.06
17.45	3.11	1.33	0.08	20.05	3.25	1.44	0.06
17.50	3.11	1.33	0.07	20.10	3.25	1.44	0.06
17.55	3.11	1.34	0.07	20.15	3.25	1.44	0.06
17.60	3.12	1.34	0.07	20.20	3.25	1.44	0.05
17.65	3.12	1.34	0.07	20.25	3.26	1.44	0.05
17.70	3.12	1.34	0.07	20.30	3.26	1.45	0.05
17.75	3.13	1.34	0.07	20.35	3.26	1.45	0.05
17.80	3.13	1.35	0.07	20.40	3.26	1.45	0.05
17.85	3.13	1.35	0.07	20.45	3.26	1.45	0.05
17.90	3.13	1.35	0.07	20.50	3.27	1.45	0.05
17.95	3.14	1.35	0.07	20.55	3.27	1.46	0.05
18.00	3.14	1.36	0.07	20.60	3.27	1.46	0.05
18.05	3.14	1.36	0.07	20.65	3.27	1.46	0.05
18.10	3.15	1.36	0.07	20.70	3.28	1.46	0.05
18.15	3.15	1.36	0.07	20.75	3.28	1.46	0.05

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

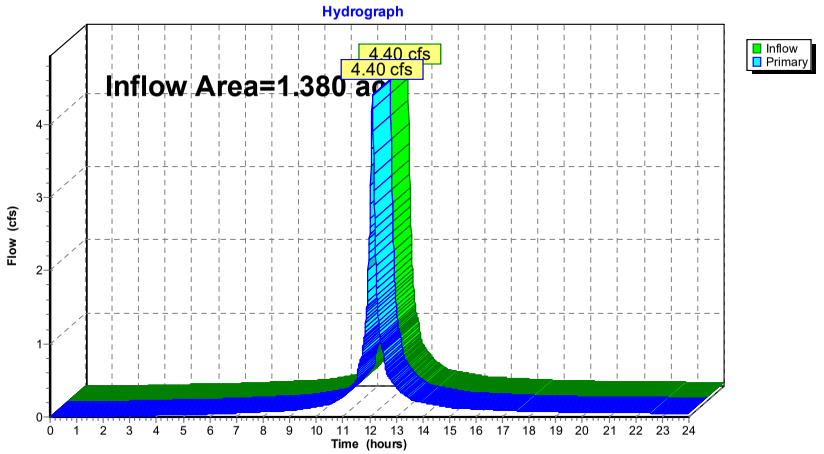
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.28	1.46	0.05	23.40	3.39	1.55	0.04
20.85	3.28	1.47	0.05	23.45	3.39	1.55	0.04
20.90	3.29	1.47	0.05	23.50	3.39	1.55	0.04
20.95	3.29	1.47	0.05	23.55	3.39	1.55	0.04
21.00	3.29	1.47	0.05	23.60	3.39	1.55	0.04
21.05	3.29	1.47	0.05	23.65	3.40	1.55	0.04
21.10	3.29	1.47	0.05	23.70	3.40	1.56	0.04
21.15	3.30	1.48	0.05	23.75	3.40	1.56	0.04
21.20	3.30	1.48	0.05	23.80	3.40	1.56	0.04
21.25	3.30	1.48	0.05	23.85	3.40	1.56	0.04
21.30	3.30	1.48	0.05	23.90	3.41	1.56	0.04
21.35	3.31	1.48	0.05	23.95	3.41	1.56	0.04
21.40	3.31	1.48	0.05	24.00	**3.41**	**1.57**	0.04
21.45	3.31	1.49	0.05				
21.50	3.31	1.49	0.05				
21.55	3.31	1.49	0.05				
21.60	3.32	1.49	0.05				
21.65	3.32	1.49	0.05				
21.70	3.32	1.50	0.05				
21.75	3.32	1.50	0.05				
21.80	3.32	1.50	0.05				
21.85	3.33	1.50	0.05				
21.90	3.33	1.50	0.05				
21.95	3.33	1.50	0.05				
22.00	3.33	1.50	0.05				
22.05	3.33	1.51	0.05				
22.10	3.34	1.51	0.05				
22.15	3.34	1.51	0.05				
22.20	3.34	1.51	0.05				
22.25	3.34	1.51	0.05				
22.30	3.35	1.51	0.05				
22.35	3.35	1.52	0.05				
22.40	3.35	1.52	0.05				
22.45	3.35	1.52	0.05				
22.50	3.35	1.52	0.05				
22.55	3.36	1.52	0.05				
22.60	3.36	1.52	0.05				
22.65	3.36	1.53	0.05				
22.70	3.36	1.53	0.05				
22.75	3.36	1.53	0.05				
22.80	3.37	1.53	0.05				
22.85	3.37	1.53	0.05				
22.90	3.37	1.53	0.05				
22.95	3.37	1.53	0.05				
23.00	3.37	1.54	0.04				
23.05	3.37	1.54	0.04				
23.10	3.38	1.54	0.04				
23.15	3.38	1.54	0.04				
23.20	3.38	1.54	0.04				
23.25	3.38	1.54	0.04				
23.30	3.38	1.54	0.04				
23.35	3.39	1.55	0.04				

Summary for Link E1A: E1A

Inflow Area = 1.380 ac, 54.35% Impervious, Inflow Depth > 2.76" for 2YR CURRENT event
Inflow = 4.40 cfs @ 12.11 hrs, Volume= 0.317 af
Primary = 4.40 cfs @ 12.11 hrs, Volume= 0.317 af, Atten= 0%, Lag= 0.0 min
Routed to Link EPOI-1 : EPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link E1A: E1A



Hydrograph for Link E1A: E1A

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.01	0.00	0.01
0.05	0.00	0.00	0.00	2.65	0.01	0.00	0.01
0.10	0.00	0.00	0.00	2.70	0.01	0.00	0.01
0.15	0.00	0.00	0.00	2.75	0.01	0.00	0.01
0.20	0.00	0.00	0.00	2.80	0.01	0.00	0.01
0.25	0.00	0.00	0.00	2.85	0.01	0.00	0.01
0.30	0.00	0.00	0.00	2.90	0.01	0.00	0.01
0.35	0.00	0.00	0.00	2.95	0.01	0.00	0.01
0.40	0.00	0.00	0.00	3.00	0.01	0.00	0.01
0.45	0.00	0.00	0.00	3.05	0.01	0.00	0.01
0.50	0.00	0.00	0.00	3.10	0.01	0.00	0.01
0.55	0.00	0.00	0.00	3.15	0.02	0.00	0.02
0.60	0.00	0.00	0.00	3.20	0.02	0.00	0.02
0.65	0.00	0.00	0.00	3.25	0.02	0.00	0.02
0.70	0.00	0.00	0.00	3.30	0.02	0.00	0.02
0.75	0.00	0.00	0.00	3.35	0.02	0.00	0.02
0.80	0.00	0.00	0.00	3.40	0.02	0.00	0.02
0.85	0.00	0.00	0.00	3.45	0.02	0.00	0.02
0.90	0.00	0.00	0.00	3.50	0.02	0.00	0.02
0.95	0.00	0.00	0.00	3.55	0.02	0.00	0.02
1.00	0.00	0.00	0.00	3.60	0.02	0.00	0.02
1.05	0.00	0.00	0.00	3.65	0.02	0.00	0.02
1.10	0.00	0.00	0.00	3.70	0.02	0.00	0.02
1.15	0.00	0.00	0.00	3.75	0.02	0.00	0.02
1.20	0.00	0.00	0.00	3.80	0.02	0.00	0.02
1.25	0.00	0.00	0.00	3.85	0.02	0.00	0.02
1.30	0.00	0.00	0.00	3.90	0.02	0.00	0.02
1.35	0.00	0.00	0.00	3.95	0.02	0.00	0.02
1.40	0.00	0.00	0.00	4.00	0.02	0.00	0.02
1.45	0.00	0.00	0.00	4.05	0.02	0.00	0.02
1.50	0.00	0.00	0.00	4.10	0.02	0.00	0.02
1.55	0.00	0.00	0.00	4.15	0.02	0.00	0.02
1.60	0.00	0.00	0.00	4.20	0.02	0.00	0.02
1.65	0.00	0.00	0.00	4.25	0.03	0.00	0.03
1.70	0.00	0.00	0.00	4.30	0.03	0.00	0.03
1.75	0.00	0.00	0.00	4.35	0.03	0.00	0.03
1.80	0.00	0.00	0.00	4.40	0.03	0.00	0.03
1.85	0.00	0.00	0.00	4.45	0.03	0.00	0.03
1.90	0.00	0.00	0.00	4.50	0.03	0.00	0.03
1.95	0.00	0.00	0.00	4.55	0.03	0.00	0.03
2.00	0.00	0.00	0.00	4.60	0.03	0.00	0.03
2.05	0.00	0.00	0.00	4.65	0.03	0.00	0.03
2.10	0.00	0.00	0.00	4.70	0.03	0.00	0.03
2.15	0.00	0.00	0.00	4.75	0.03	0.00	0.03
2.20	0.01	0.00	0.01	4.80	0.03	0.00	0.03
2.25	0.01	0.00	0.01	4.85	0.03	0.00	0.03
2.30	0.01	0.00	0.01	4.90	0.03	0.00	0.03
2.35	0.01	0.00	0.01	4.95	0.03	0.00	0.03
2.40	0.01	0.00	0.01	5.00	0.03	0.00	0.03
2.45	0.01	0.00	0.01	5.05	0.03	0.00	0.03
2.50	0.01	0.00	0.01	5.10	0.03	0.00	0.03
2.55	0.01	0.00	0.01	5.15	0.03	0.00	0.03

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.03	0.00	0.03	7.80	0.07	0.00	0.07
5.25	0.03	0.00	0.03	7.85	0.07	0.00	0.07
5.30	0.03	0.00	0.03	7.90	0.07	0.00	0.07
5.35	0.03	0.00	0.03	7.95	0.07	0.00	0.07
5.40	0.03	0.00	0.03	8.00	0.07	0.00	0.07
5.45	0.03	0.00	0.03	8.05	0.07	0.00	0.07
5.50	0.04	0.00	0.04	8.10	0.07	0.00	0.07
5.55	0.04	0.00	0.04	8.15	0.07	0.00	0.07
5.60	0.04	0.00	0.04	8.20	0.07	0.00	0.07
5.65	0.04	0.00	0.04	8.25	0.07	0.00	0.07
5.70	0.04	0.00	0.04	8.30	0.07	0.00	0.07
5.75	0.04	0.00	0.04	8.35	0.08	0.00	0.08
5.80	0.04	0.00	0.04	8.40	0.08	0.00	0.08
5.85	0.04	0.00	0.04	8.45	0.08	0.00	0.08
5.90	0.04	0.00	0.04	8.50	0.08	0.00	0.08
5.95	0.04	0.00	0.04	8.55	0.08	0.00	0.08
6.00	0.04	0.00	0.04	8.60	0.08	0.00	0.08
6.05	0.04	0.00	0.04	8.65	0.08	0.00	0.08
6.10	0.04	0.00	0.04	8.70	0.08	0.00	0.08
6.15	0.04	0.00	0.04	8.75	0.08	0.00	0.08
6.20	0.04	0.00	0.04	8.80	0.08	0.00	0.08
6.25	0.04	0.00	0.04	8.85	0.08	0.00	0.08
6.30	0.04	0.00	0.04	8.90	0.09	0.00	0.09
6.35	0.04	0.00	0.04	8.95	0.09	0.00	0.09
6.40	0.04	0.00	0.04	9.00	0.09	0.00	0.09
6.45	0.05	0.00	0.05	9.05	0.09	0.00	0.09
6.50	0.05	0.00	0.05	9.10	0.09	0.00	0.09
6.55	0.05	0.00	0.05	9.15	0.09	0.00	0.09
6.60	0.05	0.00	0.05	9.20	0.10	0.00	0.10
6.65	0.05	0.00	0.05	9.25	0.10	0.00	0.10
6.70	0.05	0.00	0.05	9.30	0.10	0.00	0.10
6.75	0.05	0.00	0.05	9.35	0.11	0.00	0.11
6.80	0.05	0.00	0.05	9.40	0.11	0.00	0.11
6.85	0.05	0.00	0.05	9.45	0.11	0.00	0.11
6.90	0.05	0.00	0.05	9.50	0.11	0.00	0.11
6.95	0.05	0.00	0.05	9.55	0.12	0.00	0.12
7.00	0.05	0.00	0.05	9.60	0.12	0.00	0.12
7.05	0.05	0.00	0.05	9.65	0.12	0.00	0.12
7.10	0.06	0.00	0.06	9.70	0.13	0.00	0.13
7.15	0.06	0.00	0.06	9.75	0.13	0.00	0.13
7.20	0.06	0.00	0.06	9.80	0.13	0.00	0.13
7.25	0.06	0.00	0.06	9.85	0.13	0.00	0.13
7.30	0.06	0.00	0.06	9.90	0.14	0.00	0.14
7.35	0.06	0.00	0.06	9.95	0.14	0.00	0.14
7.40	0.06	0.00	0.06	10.00	0.14	0.00	0.14
7.45	0.06	0.00	0.06	10.05	0.15	0.00	0.15
7.50	0.06	0.00	0.06	10.10	0.15	0.00	0.15
7.55	0.06	0.00	0.06	10.15	0.15	0.00	0.15
7.60	0.06	0.00	0.06	10.20	0.16	0.00	0.16
7.65	0.06	0.00	0.06	10.25	0.16	0.00	0.16
7.70	0.06	0.00	0.06	10.30	0.16	0.00	0.16
7.75	0.07	0.00	0.07	10.35	0.17	0.00	0.17

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.17	0.00	0.17	13.00	0.41	0.00	0.41
10.45	0.17	0.00	0.17	13.05	0.39	0.00	0.39
10.50	0.18	0.00	0.18	13.10	0.37	0.00	0.37
10.55	0.18	0.00	0.18	13.15	0.35	0.00	0.35
10.60	0.19	0.00	0.19	13.20	0.33	0.00	0.33
10.65	0.20	0.00	0.20	13.25	0.32	0.00	0.32
10.70	0.21	0.00	0.21	13.30	0.31	0.00	0.31
10.75	0.23	0.00	0.23	13.35	0.29	0.00	0.29
10.80	0.24	0.00	0.24	13.40	0.28	0.00	0.28
10.85	0.25	0.00	0.25	13.45	0.27	0.00	0.27
10.90	0.26	0.00	0.26	13.50	0.26	0.00	0.26
10.95	0.27	0.00	0.27	13.55	0.24	0.00	0.24
11.00	0.28	0.00	0.28	13.60	0.23	0.00	0.23
11.05	0.30	0.00	0.30	13.65	0.23	0.00	0.23
11.10	0.32	0.00	0.32	13.70	0.22	0.00	0.22
11.15	0.34	0.00	0.34	13.75	0.22	0.00	0.22
11.20	0.36	0.00	0.36	13.80	0.21	0.00	0.21
11.25	0.38	0.00	0.38	13.85	0.21	0.00	0.21
11.30	0.40	0.00	0.40	13.90	0.21	0.00	0.21
11.35	0.43	0.00	0.43	13.95	0.20	0.00	0.20
11.40	0.45	0.00	0.45	14.00	0.20	0.00	0.20
11.45	0.47	0.00	0.47	14.05	0.20	0.00	0.20
11.50	0.49	0.00	0.49	14.10	0.19	0.00	0.19
11.55	0.59	0.00	0.59	14.15	0.19	0.00	0.19
11.60	0.70	0.00	0.70	14.20	0.19	0.00	0.19
11.65	0.77	0.00	0.77	14.25	0.18	0.00	0.18
11.70	0.81	0.00	0.81	14.30	0.18	0.00	0.18
11.75	0.94	0.00	0.94	14.35	0.18	0.00	0.18
11.80	1.07	0.00	1.07	14.40	0.17	0.00	0.17
11.85	1.29	0.00	1.29	14.45	0.17	0.00	0.17
11.90	1.49	0.00	1.49	14.50	0.17	0.00	0.17
11.95	2.00	0.00	2.00	14.55	0.16	0.00	0.16
12.00	2.51	0.00	2.51	14.60	0.16	0.00	0.16
12.05	3.44	0.00	3.44	14.65	0.16	0.00	0.16
12.10	**4.31**	0.00	**4.31**	14.70	0.15	0.00	0.15
12.15	**3.59**	0.00	**3.59**	14.75	0.15	0.00	0.15
12.20	2.58	0.00	2.58	14.80	0.15	0.00	0.15
12.25	1.94	0.00	1.94	14.85	0.14	0.00	0.14
12.30	1.54	0.00	1.54	14.90	0.14	0.00	0.14
12.35	1.25	0.00	1.25	14.95	0.14	0.00	0.14
12.40	1.06	0.00	1.06	15.00	0.13	0.00	0.13
12.45	0.96	0.00	0.96	15.05	0.13	0.00	0.13
12.50	0.91	0.00	0.91	15.10	0.13	0.00	0.13
12.55	0.79	0.00	0.79	15.15	0.13	0.00	0.13
12.60	0.67	0.00	0.67	15.20	0.12	0.00	0.12
12.65	0.60	0.00	0.60	15.25	0.12	0.00	0.12
12.70	0.56	0.00	0.56	15.30	0.12	0.00	0.12
12.75	0.53	0.00	0.53	15.35	0.12	0.00	0.12
12.80	0.51	0.00	0.51	15.40	0.12	0.00	0.12
12.85	0.48	0.00	0.48	15.45	0.12	0.00	0.12
12.90	0.46	0.00	0.46	15.50	0.12	0.00	0.12
12.95	0.43	0.00	0.43	15.55	0.12	0.00	0.12

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.12	0.00	0.12	18.20	0.07	0.00	0.07
15.65	0.12	0.00	0.12	18.25	0.07	0.00	0.07
15.70	0.12	0.00	0.12	18.30	0.07	0.00	0.07
15.75	0.11	0.00	0.11	18.35	0.07	0.00	0.07
15.80	0.11	0.00	0.11	18.40	0.07	0.00	0.07
15.85	0.11	0.00	0.11	18.45	0.07	0.00	0.07
15.90	0.11	0.00	0.11	18.50	0.07	0.00	0.07
15.95	0.11	0.00	0.11	18.55	0.07	0.00	0.07
16.00	0.11	0.00	0.11	18.60	0.07	0.00	0.07
16.05	0.11	0.00	0.11	18.65	0.07	0.00	0.07
16.10	0.11	0.00	0.11	18.70	0.07	0.00	0.07
16.15	0.11	0.00	0.11	18.75	0.07	0.00	0.07
16.20	0.11	0.00	0.11	18.80	0.07	0.00	0.07
16.25	0.11	0.00	0.11	18.85	0.07	0.00	0.07
16.30	0.10	0.00	0.10	18.90	0.07	0.00	0.07
16.35	0.10	0.00	0.10	18.95	0.07	0.00	0.07
16.40	0.10	0.00	0.10	19.00	0.07	0.00	0.07
16.45	0.10	0.00	0.10	19.05	0.07	0.00	0.07
16.50	0.10	0.00	0.10	19.10	0.07	0.00	0.07
16.55	0.10	0.00	0.10	19.15	0.07	0.00	0.07
16.60	0.10	0.00	0.10	19.20	0.07	0.00	0.07
16.65	0.10	0.00	0.10	19.25	0.07	0.00	0.07
16.70	0.10	0.00	0.10	19.30	0.07	0.00	0.07
16.75	0.10	0.00	0.10	19.35	0.07	0.00	0.07
16.80	0.10	0.00	0.10	19.40	0.07	0.00	0.07
16.85	0.09	0.00	0.09	19.45	0.07	0.00	0.07
16.90	0.09	0.00	0.09	19.50	0.07	0.00	0.07
16.95	0.09	0.00	0.09	19.55	0.07	0.00	0.07
17.00	0.09	0.00	0.09	19.60	0.07	0.00	0.07
17.05	0.09	0.00	0.09	19.65	0.07	0.00	0.07
17.10	0.09	0.00	0.09	19.70	0.07	0.00	0.07
17.15	0.09	0.00	0.09	19.75	0.07	0.00	0.07
17.20	0.09	0.00	0.09	19.80	0.07	0.00	0.07
17.25	0.09	0.00	0.09	19.85	0.06	0.00	0.06
17.30	0.09	0.00	0.09	19.90	0.06	0.00	0.06
17.35	0.09	0.00	0.09	19.95	0.06	0.00	0.06
17.40	0.09	0.00	0.09	20.00	0.06	0.00	0.06
17.45	0.08	0.00	0.08	20.05	0.06	0.00	0.06
17.50	0.08	0.00	0.08	20.10	0.06	0.00	0.06
17.55	0.08	0.00	0.08	20.15	0.06	0.00	0.06
17.60	0.08	0.00	0.08	20.20	0.06	0.00	0.06
17.65	0.08	0.00	0.08	20.25	0.06	0.00	0.06
17.70	0.08	0.00	0.08	20.30	0.06	0.00	0.06
17.75	0.08	0.00	0.08	20.35	0.06	0.00	0.06
17.80	0.08	0.00	0.08	20.40	0.06	0.00	0.06
17.85	0.08	0.00	0.08	20.45	0.06	0.00	0.06
17.90	0.08	0.00	0.08	20.50	0.06	0.00	0.06
17.95	0.08	0.00	0.08	20.55	0.06	0.00	0.06
18.00	0.07	0.00	0.07	20.60	0.06	0.00	0.06
18.05	0.07	0.00	0.07	20.65	0.06	0.00	0.06
18.10	0.07	0.00	0.07	20.70	0.06	0.00	0.06
18.15	0.07	0.00	0.07	20.75	0.06	0.00	0.06

Hydrograph for Link E1A: E1A (continued)

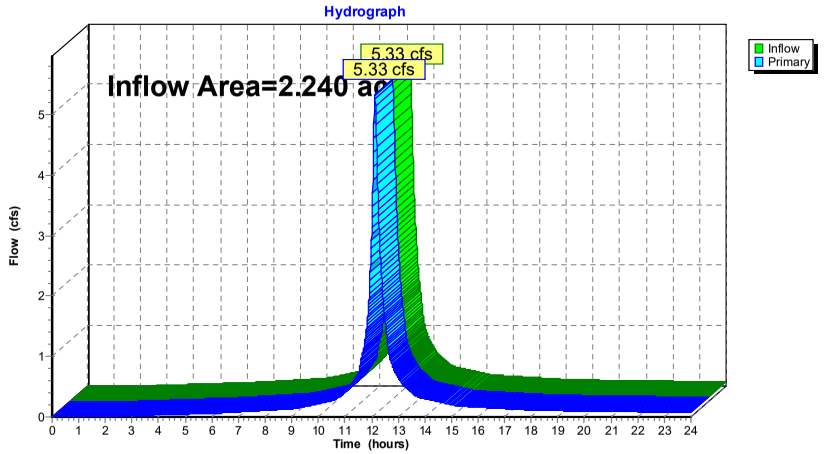
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.06	0.00	0.06	23.40	0.05	0.00	0.05
20.85	0.06	0.00	0.06	23.45	0.05	0.00	0.05
20.90	0.06	0.00	0.06	23.50	0.05	0.00	0.05
20.95	0.06	0.00	0.06	23.55	0.05	0.00	0.05
21.00	0.06	0.00	0.06	23.60	0.05	0.00	0.05
21.05	0.06	0.00	0.06	23.65	0.05	0.00	0.05
21.10	0.06	0.00	0.06	23.70	0.05	0.00	0.05
21.15	0.06	0.00	0.06	23.75	0.05	0.00	0.05
21.20	0.06	0.00	0.06	23.80	0.05	0.00	0.05
21.25	0.06	0.00	0.06	23.85	0.05	0.00	0.05
21.30	0.06	0.00	0.06	23.90	0.05	0.00	0.05
21.35	0.06	0.00	0.06	23.95	0.05	0.00	0.05
21.40	0.06	0.00	0.06	24.00	0.05	0.00	0.05
21.45	0.06	0.00	0.06				
21.50	0.06	0.00	0.06				
21.55	0.06	0.00	0.06				
21.60	0.06	0.00	0.06				
21.65	0.06	0.00	0.06				
21.70	0.06	0.00	0.06				
21.75	0.06	0.00	0.06				
21.80	0.06	0.00	0.06				
21.85	0.06	0.00	0.06				
21.90	0.06	0.00	0.06				
21.95	0.06	0.00	0.06				
22.00	0.06	0.00	0.06				
22.05	0.05	0.00	0.05				
22.10	0.05	0.00	0.05				
22.15	0.05	0.00	0.05				
22.20	0.05	0.00	0.05				
22.25	0.05	0.00	0.05				
22.30	0.05	0.00	0.05				
22.35	0.05	0.00	0.05				
22.40	0.05	0.00	0.05				
22.45	0.05	0.00	0.05				
22.50	0.05	0.00	0.05				
22.55	0.05	0.00	0.05				
22.60	0.05	0.00	0.05				
22.65	0.05	0.00	0.05				
22.70	0.05	0.00	0.05				
22.75	0.05	0.00	0.05				
22.80	0.05	0.00	0.05				
22.85	0.05	0.00	0.05				
22.90	0.05	0.00	0.05				
22.95	0.05	0.00	0.05				
23.00	0.05	0.00	0.05				
23.05	0.05	0.00	0.05				
23.10	0.05	0.00	0.05				
23.15	0.05	0.00	0.05				
23.20	0.05	0.00	0.05				
23.25	0.05	0.00	0.05				
23.30	0.05	0.00	0.05				
23.35	0.05	0.00	0.05				

Summary for Link E1B: E1B

Inflow Area = 2.240 ac, 27.23% Impervious, Inflow Depth > 2.52" for 2YR CURRENT event
Inflow = 5.33 cfs @ 12.12 hrs, Volume= 0.471 af
Primary = 5.33 cfs @ 12.12 hrs, Volume= 0.471 af, Atten= 0%, Lag= 0.0 min
Routed to Link EPOI-1 : EPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link E1B: E1B



Hydrograph for Link E1B: E1B

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.01	0.00	0.01
0.05	0.00	0.00	0.00	2.65	0.01	0.00	0.01
0.10	0.00	0.00	0.00	2.70	0.01	0.00	0.01
0.15	0.00	0.00	0.00	2.75	0.01	0.00	0.01
0.20	0.00	0.00	0.00	2.80	0.01	0.00	0.01
0.25	0.00	0.00	0.00	2.85	0.01	0.00	0.01
0.30	0.00	0.00	0.00	2.90	0.01	0.00	0.01
0.35	0.00	0.00	0.00	2.95	0.01	0.00	0.01
0.40	0.00	0.00	0.00	3.00	0.02	0.00	0.02
0.45	0.00	0.00	0.00	3.05	0.02	0.00	0.02
0.50	0.00	0.00	0.00	3.10	0.02	0.00	0.02
0.55	0.00	0.00	0.00	3.15	0.02	0.00	0.02
0.60	0.00	0.00	0.00	3.20	0.02	0.00	0.02
0.65	0.00	0.00	0.00	3.25	0.02	0.00	0.02
0.70	0.00	0.00	0.00	3.30	0.02	0.00	0.02
0.75	0.00	0.00	0.00	3.35	0.02	0.00	0.02
0.80	0.00	0.00	0.00	3.40	0.02	0.00	0.02
0.85	0.00	0.00	0.00	3.45	0.02	0.00	0.02
0.90	0.00	0.00	0.00	3.50	0.02	0.00	0.02
0.95	0.00	0.00	0.00	3.55	0.02	0.00	0.02
1.00	0.00	0.00	0.00	3.60	0.02	0.00	0.02
1.05	0.00	0.00	0.00	3.65	0.03	0.00	0.03
1.10	0.00	0.00	0.00	3.70	0.03	0.00	0.03
1.15	0.00	0.00	0.00	3.75	0.03	0.00	0.03
1.20	0.00	0.00	0.00	3.80	0.03	0.00	0.03
1.25	0.00	0.00	0.00	3.85	0.03	0.00	0.03
1.30	0.00	0.00	0.00	3.90	0.03	0.00	0.03
1.35	0.00	0.00	0.00	3.95	0.03	0.00	0.03
1.40	0.00	0.00	0.00	4.00	0.03	0.00	0.03
1.45	0.00	0.00	0.00	4.05	0.03	0.00	0.03
1.50	0.00	0.00	0.00	4.10	0.03	0.00	0.03
1.55	0.00	0.00	0.00	4.15	0.03	0.00	0.03
1.60	0.00	0.00	0.00	4.20	0.03	0.00	0.03
1.65	0.00	0.00	0.00	4.25	0.03	0.00	0.03
1.70	0.00	0.00	0.00	4.30	0.03	0.00	0.03
1.75	0.00	0.00	0.00	4.35	0.04	0.00	0.04
1.80	0.00	0.00	0.00	4.40	0.04	0.00	0.04
1.85	0.00	0.00	0.00	4.45	0.04	0.00	0.04
1.90	0.00	0.00	0.00	4.50	0.04	0.00	0.04
1.95	0.00	0.00	0.00	4.55	0.04	0.00	0.04
2.00	0.00	0.00	0.00	4.60	0.04	0.00	0.04
2.05	0.00	0.00	0.00	4.65	0.04	0.00	0.04
2.10	0.00	0.00	0.00	4.70	0.04	0.00	0.04
2.15	0.00	0.00	0.00	4.75	0.04	0.00	0.04
2.20	0.00	0.00	0.00	4.80	0.04	0.00	0.04
2.25	0.00	0.00	0.00	4.85	0.04	0.00	0.04
2.30	0.00	0.00	0.00	4.90	0.04	0.00	0.04
2.35	0.01	0.00	0.01	4.95	0.04	0.00	0.04
2.40	0.01	0.00	0.01	5.00	0.04	0.00	0.04
2.45	0.01	0.00	0.01	5.05	0.04	0.00	0.04
2.50	0.01	0.00	0.01	5.10	0.05	0.00	0.05
2.55	0.01	0.00	0.01	5.15	0.05	0.00	0.05

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.05	0.00	0.05	7.80	0.10	0.00	0.10
5.25	0.05	0.00	0.05	7.85	0.10	0.00	0.10
5.30	0.05	0.00	0.05	7.90	0.10	0.00	0.10
5.35	0.05	0.00	0.05	7.95	0.11	0.00	0.11
5.40	0.05	0.00	0.05	8.00	0.11	0.00	0.11
5.45	0.05	0.00	0.05	8.05	0.11	0.00	0.11
5.50	0.05	0.00	0.05	8.10	0.11	0.00	0.11
5.55	0.05	0.00	0.05	8.15	0.11	0.00	0.11
5.60	0.05	0.00	0.05	8.20	0.11	0.00	0.11
5.65	0.05	0.00	0.05	8.25	0.11	0.00	0.11
5.70	0.05	0.00	0.05	8.30	0.12	0.00	0.12
5.75	0.05	0.00	0.05	8.35	0.12	0.00	0.12
5.80	0.05	0.00	0.05	8.40	0.12	0.00	0.12
5.85	0.05	0.00	0.05	8.45	0.12	0.00	0.12
5.90	0.06	0.00	0.06	8.50	0.12	0.00	0.12
5.95	0.06	0.00	0.06	8.55	0.12	0.00	0.12
6.00	0.06	0.00	0.06	8.60	0.12	0.00	0.12
6.05	0.06	0.00	0.06	8.65	0.13	0.00	0.13
6.10	0.06	0.00	0.06	8.70	0.13	0.00	0.13
6.15	0.06	0.00	0.06	8.75	0.13	0.00	0.13
6.20	0.06	0.00	0.06	8.80	0.13	0.00	0.13
6.25	0.06	0.00	0.06	8.85	0.13	0.00	0.13
6.30	0.06	0.00	0.06	8.90	0.13	0.00	0.13
6.35	0.06	0.00	0.06	8.95	0.13	0.00	0.13
6.40	0.07	0.00	0.07	9.00	0.14	0.00	0.14
6.45	0.07	0.00	0.07	9.05	0.14	0.00	0.14
6.50	0.07	0.00	0.07	9.10	0.14	0.00	0.14
6.55	0.07	0.00	0.07	9.15	0.14	0.00	0.14
6.60	0.07	0.00	0.07	9.20	0.15	0.00	0.15
6.65	0.07	0.00	0.07	9.25	0.15	0.00	0.15
6.70	0.07	0.00	0.07	9.30	0.16	0.00	0.16
6.75	0.07	0.00	0.07	9.35	0.16	0.00	0.16
6.80	0.07	0.00	0.07	9.40	0.16	0.00	0.16
6.85	0.08	0.00	0.08	9.45	0.17	0.00	0.17
6.90	0.08	0.00	0.08	9.50	0.17	0.00	0.17
6.95	0.08	0.00	0.08	9.55	0.18	0.00	0.18
7.00	0.08	0.00	0.08	9.60	0.18	0.00	0.18
7.05	0.08	0.00	0.08	9.65	0.19	0.00	0.19
7.10	0.08	0.00	0.08	9.70	0.19	0.00	0.19
7.15	0.08	0.00	0.08	9.75	0.20	0.00	0.20
7.20	0.09	0.00	0.09	9.80	0.20	0.00	0.20
7.25	0.09	0.00	0.09	9.85	0.21	0.00	0.21
7.30	0.09	0.00	0.09	9.90	0.21	0.00	0.21
7.35	0.09	0.00	0.09	9.95	0.21	0.00	0.21
7.40	0.09	0.00	0.09	10.00	0.22	0.00	0.22
7.45	0.09	0.00	0.09	10.05	0.22	0.00	0.22
7.50	0.09	0.00	0.09	10.10	0.23	0.00	0.23
7.55	0.09	0.00	0.09	10.15	0.23	0.00	0.23
7.60	0.10	0.00	0.10	10.20	0.24	0.00	0.24
7.65	0.10	0.00	0.10	10.25	0.24	0.00	0.24
7.70	0.10	0.00	0.10	10.30	0.25	0.00	0.25
7.75	0.10	0.00	0.10	10.35	0.25	0.00	0.25

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.26	0.00	0.26	13.00	0.65	0.00	0.65
10.45	0.26	0.00	0.26	13.05	0.62	0.00	0.62
10.50	0.27	0.00	0.27	13.10	0.58	0.00	0.58
10.55	0.28	0.00	0.28	13.15	0.55	0.00	0.55
10.60	0.29	0.00	0.29	13.20	0.52	0.00	0.52
10.65	0.30	0.00	0.30	13.25	0.50	0.00	0.50
10.70	0.31	0.00	0.31	13.30	0.48	0.00	0.48
10.75	0.33	0.00	0.33	13.35	0.46	0.00	0.46
10.80	0.35	0.00	0.35	13.40	0.44	0.00	0.44
10.85	0.36	0.00	0.36	13.45	0.42	0.00	0.42
10.90	0.38	0.00	0.38	13.50	0.40	0.00	0.40
10.95	0.40	0.00	0.40	13.55	0.38	0.00	0.38
11.00	0.41	0.00	0.41	13.60	0.37	0.00	0.37
11.05	0.44	0.00	0.44	13.65	0.35	0.00	0.35
11.10	0.46	0.00	0.46	13.70	0.34	0.00	0.34
11.15	0.49	0.00	0.49	13.75	0.33	0.00	0.33
11.20	0.52	0.00	0.52	13.80	0.32	0.00	0.32
11.25	0.55	0.00	0.55	13.85	0.32	0.00	0.32
11.30	0.58	0.00	0.58	13.90	0.31	0.00	0.31
11.35	0.61	0.00	0.61	13.95	0.31	0.00	0.31
11.40	0.65	0.00	0.65	14.00	0.30	0.00	0.30
11.45	0.68	0.00	0.68	14.05	0.30	0.00	0.30
11.50	0.71	0.00	0.71	14.10	0.29	0.00	0.29
11.55	0.79	0.00	0.79	14.15	0.29	0.00	0.29
11.60	0.93	0.00	0.93	14.20	0.28	0.00	0.28
11.65	1.03	0.00	1.03	14.25	0.28	0.00	0.28
11.70	1.11	0.00	1.11	14.30	0.27	0.00	0.27
11.75	1.24	0.00	1.24	14.35	0.27	0.00	0.27
11.80	1.41	0.00	1.41	14.40	0.26	0.00	0.26
11.85	1.64	0.00	1.64	14.45	0.26	0.00	0.26
11.90	1.92	0.00	1.92	14.50	0.25	0.00	0.25
11.95	2.38	0.00	2.38	14.55	0.25	0.00	0.25
12.00	3.03	0.00	3.03	14.60	0.24	0.00	0.24
12.05	3.92	0.00	3.92	14.65	0.24	0.00	0.24
12.10	**5.05**	0.00	**5.05**	14.70	0.23	0.00	0.23
12.15	**5.14**	0.00	**5.14**	14.75	0.23	0.00	0.23
12.20	4.29	0.00	4.29	14.80	0.22	0.00	0.22
12.25	3.57	0.00	3.57	14.85	0.22	0.00	0.22
12.30	2.99	0.00	2.99	14.90	0.21	0.00	0.21
12.35	2.53	0.00	2.53	14.95	0.21	0.00	0.21
12.40	2.13	0.00	2.13	15.00	0.20	0.00	0.20
12.45	1.84	0.00	1.84	15.05	0.20	0.00	0.20
12.50	1.64	0.00	1.64	15.10	0.19	0.00	0.19
12.55	1.44	0.00	1.44	15.15	0.19	0.00	0.19
12.60	1.22	0.00	1.22	15.20	0.19	0.00	0.19
12.65	1.07	0.00	1.07	15.25	0.18	0.00	0.18
12.70	0.97	0.00	0.97	15.30	0.18	0.00	0.18
12.75	0.89	0.00	0.89	15.35	0.18	0.00	0.18
12.80	0.82	0.00	0.82	15.40	0.18	0.00	0.18
12.85	0.77	0.00	0.77	15.45	0.18	0.00	0.18
12.90	0.73	0.00	0.73	15.50	0.18	0.00	0.18
12.95	0.69	0.00	0.69	15.55	0.18	0.00	0.18

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.17	0.00	0.17	18.20	0.11	0.00	0.11
15.65	0.17	0.00	0.17	18.25	0.11	0.00	0.11
15.70	0.17	0.00	0.17	18.30	0.11	0.00	0.11
15.75	0.17	0.00	0.17	18.35	0.11	0.00	0.11
15.80	0.17	0.00	0.17	18.40	0.11	0.00	0.11
15.85	0.17	0.00	0.17	18.45	0.11	0.00	0.11
15.90	0.17	0.00	0.17	18.50	0.10	0.00	0.10
15.95	0.17	0.00	0.17	18.55	0.10	0.00	0.10
16.00	0.16	0.00	0.16	18.60	0.10	0.00	0.10
16.05	0.16	0.00	0.16	18.65	0.10	0.00	0.10
16.10	0.16	0.00	0.16	18.70	0.10	0.00	0.10
16.15	0.16	0.00	0.16	18.75	0.10	0.00	0.10
16.20	0.16	0.00	0.16	18.80	0.10	0.00	0.10
16.25	0.16	0.00	0.16	18.85	0.10	0.00	0.10
16.30	0.16	0.00	0.16	18.90	0.10	0.00	0.10
16.35	0.15	0.00	0.15	18.95	0.10	0.00	0.10
16.40	0.15	0.00	0.15	19.00	0.10	0.00	0.10
16.45	0.15	0.00	0.15	19.05	0.10	0.00	0.10
16.50	0.15	0.00	0.15	19.10	0.10	0.00	0.10
16.55	0.15	0.00	0.15	19.15	0.10	0.00	0.10
16.60	0.15	0.00	0.15	19.20	0.10	0.00	0.10
16.65	0.15	0.00	0.15	19.25	0.10	0.00	0.10
16.70	0.15	0.00	0.15	19.30	0.10	0.00	0.10
16.75	0.14	0.00	0.14	19.35	0.10	0.00	0.10
16.80	0.14	0.00	0.14	19.40	0.10	0.00	0.10
16.85	0.14	0.00	0.14	19.45	0.10	0.00	0.10
16.90	0.14	0.00	0.14	19.50	0.10	0.00	0.10
16.95	0.14	0.00	0.14	19.55	0.10	0.00	0.10
17.00	0.14	0.00	0.14	19.60	0.10	0.00	0.10
17.05	0.14	0.00	0.14	19.65	0.10	0.00	0.10
17.10	0.14	0.00	0.14	19.70	0.10	0.00	0.10
17.15	0.13	0.00	0.13	19.75	0.10	0.00	0.10
17.20	0.13	0.00	0.13	19.80	0.10	0.00	0.10
17.25	0.13	0.00	0.13	19.85	0.10	0.00	0.10
17.30	0.13	0.00	0.13	19.90	0.10	0.00	0.10
17.35	0.13	0.00	0.13	19.95	0.10	0.00	0.10
17.40	0.13	0.00	0.13	20.00	0.10	0.00	0.10
17.45	0.13	0.00	0.13	20.05	0.09	0.00	0.09
17.50	0.13	0.00	0.13	20.10	0.09	0.00	0.09
17.55	0.12	0.00	0.12	20.15	0.09	0.00	0.09
17.60	0.12	0.00	0.12	20.20	0.09	0.00	0.09
17.65	0.12	0.00	0.12	20.25	0.09	0.00	0.09
17.70	0.12	0.00	0.12	20.30	0.09	0.00	0.09
17.75	0.12	0.00	0.12	20.35	0.09	0.00	0.09
17.80	0.12	0.00	0.12	20.40	0.09	0.00	0.09
17.85	0.12	0.00	0.12	20.45	0.09	0.00	0.09
17.90	0.11	0.00	0.11	20.50	0.09	0.00	0.09
17.95	0.11	0.00	0.11	20.55	0.09	0.00	0.09
18.00	0.11	0.00	0.11	20.60	0.09	0.00	0.09
18.05	0.11	0.00	0.11	20.65	0.09	0.00	0.09
18.10	0.11	0.00	0.11	20.70	0.09	0.00	0.09
18.15	0.11	0.00	0.11	20.75	0.09	0.00	0.09

Hydrograph for Link E1B: E1B (continued)

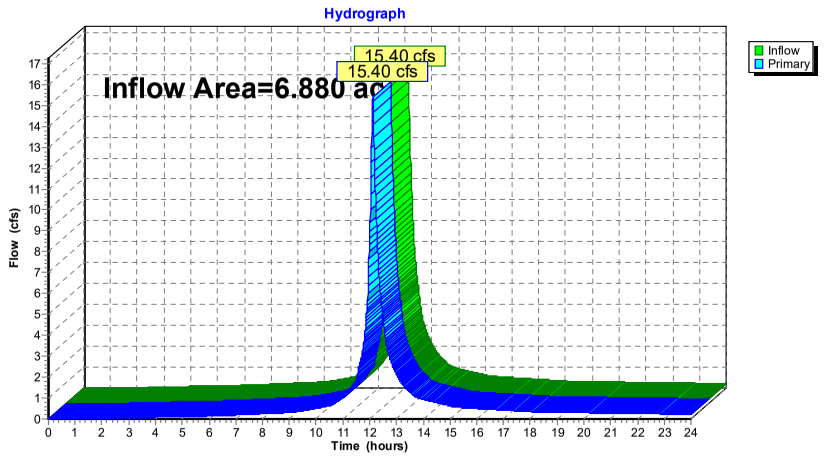
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.09	0.00	0.09	23.40	0.07	0.00	0.07
20.85	0.09	0.00	0.09	23.45	0.07	0.00	0.07
20.90	0.09	0.00	0.09	23.50	0.07	0.00	0.07
20.95	0.09	0.00	0.09	23.55	0.07	0.00	0.07
21.00	0.09	0.00	0.09	23.60	0.07	0.00	0.07
21.05	0.09	0.00	0.09	23.65	0.07	0.00	0.07
21.10	0.09	0.00	0.09	23.70	0.07	0.00	0.07
21.15	0.09	0.00	0.09	23.75	0.07	0.00	0.07
21.20	0.09	0.00	0.09	23.80	0.07	0.00	0.07
21.25	0.09	0.00	0.09	23.85	0.07	0.00	0.07
21.30	0.09	0.00	0.09	23.90	0.07	0.00	0.07
21.35	0.09	0.00	0.09	23.95	0.07	0.00	0.07
21.40	0.09	0.00	0.09	24.00	0.08	0.00	0.08
21.45	0.09	0.00	0.09				
21.50	0.09	0.00	0.09				
21.55	0.09	0.00	0.09				
21.60	0.08	0.00	0.08				
21.65	0.08	0.00	0.08				
21.70	0.08	0.00	0.08				
21.75	0.08	0.00	0.08				
21.80	0.08	0.00	0.08				
21.85	0.08	0.00	0.08				
21.90	0.08	0.00	0.08				
21.95	0.08	0.00	0.08				
22.00	0.08	0.00	0.08				
22.05	0.08	0.00	0.08				
22.10	0.08	0.00	0.08				
22.15	0.08	0.00	0.08				
22.20	0.08	0.00	0.08				
22.25	0.08	0.00	0.08				
22.30	0.08	0.00	0.08				
22.35	0.08	0.00	0.08				
22.40	0.08	0.00	0.08				
22.45	0.08	0.00	0.08				
22.50	0.08	0.00	0.08				
22.55	0.08	0.00	0.08				
22.60	0.08	0.00	0.08				
22.65	0.08	0.00	0.08				
22.70	0.08	0.00	0.08				
22.75	0.08	0.00	0.08				
22.80	0.08	0.00	0.08				
22.85	0.08	0.00	0.08				
22.90	0.08	0.00	0.08				
22.95	0.08	0.00	0.08				
23.00	0.08	0.00	0.08				
23.05	0.08	0.00	0.08				
23.10	0.08	0.00	0.08				
23.15	0.07	0.00	0.07				
23.20	0.07	0.00	0.07				
23.25	0.07	0.00	0.07				
23.30	0.07	0.00	0.07				
23.35	0.07	0.00	0.07				

Summary for Link EPOI-1: EPOI-1

Inflow Area = 6.880 ac, 33.14% Impervious, Inflow Depth > 2.34" for 2YR CURRENT event
Inflow = 15.40 cfs @ 12.12 hrs, Volume= 1.340 af
Primary = 15.40 cfs @ 12.12 hrs, Volume= 1.340 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link EPOI-1: EPOI-1



Hydrograph for Link EPOI-1: EPOI-1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.03	0.00	0.03
0.05	0.00	0.00	0.00	2.65	0.04	0.00	0.04
0.10	0.00	0.00	0.00	2.70	0.04	0.00	0.04
0.15	0.00	0.00	0.00	2.75	0.04	0.00	0.04
0.20	0.00	0.00	0.00	2.80	0.04	0.00	0.04
0.25	0.00	0.00	0.00	2.85	0.04	0.00	0.04
0.30	0.00	0.00	0.00	2.90	0.04	0.00	0.04
0.35	0.00	0.00	0.00	2.95	0.05	0.00	0.05
0.40	0.00	0.00	0.00	3.00	0.05	0.00	0.05
0.45	0.00	0.00	0.00	3.05	0.05	0.00	0.05
0.50	0.00	0.00	0.00	3.10	0.05	0.00	0.05
0.55	0.00	0.00	0.00	3.15	0.05	0.00	0.05
0.60	0.00	0.00	0.00	3.20	0.05	0.00	0.05
0.65	0.00	0.00	0.00	3.25	0.06	0.00	0.06
0.70	0.00	0.00	0.00	3.30	0.06	0.00	0.06
0.75	0.00	0.00	0.00	3.35	0.06	0.00	0.06
0.80	0.00	0.00	0.00	3.40	0.06	0.00	0.06
0.85	0.00	0.00	0.00	3.45	0.06	0.00	0.06
0.90	0.00	0.00	0.00	3.50	0.06	0.00	0.06
0.95	0.00	0.00	0.00	3.55	0.07	0.00	0.07
1.00	0.00	0.00	0.00	3.60	0.07	0.00	0.07
1.05	0.00	0.00	0.00	3.65	0.07	0.00	0.07
1.10	0.00	0.00	0.00	3.70	0.07	0.00	0.07
1.15	0.00	0.00	0.00	3.75	0.07	0.00	0.07
1.20	0.00	0.00	0.00	3.80	0.07	0.00	0.07
1.25	0.00	0.00	0.00	3.85	0.08	0.00	0.08
1.30	0.00	0.00	0.00	3.90	0.08	0.00	0.08
1.35	0.00	0.00	0.00	3.95	0.08	0.00	0.08
1.40	0.00	0.00	0.00	4.00	0.08	0.00	0.08
1.45	0.00	0.00	0.00	4.05	0.08	0.00	0.08
1.50	0.00	0.00	0.00	4.10	0.08	0.00	0.08
1.55	0.01	0.00	0.01	4.15	0.08	0.00	0.08
1.60	0.01	0.00	0.01	4.20	0.09	0.00	0.09
1.65	0.01	0.00	0.01	4.25	0.09	0.00	0.09
1.70	0.01	0.00	0.01	4.30	0.09	0.00	0.09
1.75	0.01	0.00	0.01	4.35	0.09	0.00	0.09
1.80	0.01	0.00	0.01	4.40	0.09	0.00	0.09
1.85	0.01	0.00	0.01	4.45	0.09	0.00	0.09
1.90	0.01	0.00	0.01	4.50	0.10	0.00	0.10
1.95	0.01	0.00	0.01	4.55	0.10	0.00	0.10
2.00	0.02	0.00	0.02	4.60	0.10	0.00	0.10
2.05	0.02	0.00	0.02	4.65	0.10	0.00	0.10
2.10	0.02	0.00	0.02	4.70	0.10	0.00	0.10
2.15	0.02	0.00	0.02	4.75	0.10	0.00	0.10
2.20	0.02	0.00	0.02	4.80	0.10	0.00	0.10
2.25	0.02	0.00	0.02	4.85	0.11	0.00	0.11
2.30	0.02	0.00	0.02	4.90	0.11	0.00	0.11
2.35	0.03	0.00	0.03	4.95	0.11	0.00	0.11
2.40	0.03	0.00	0.03	5.00	0.11	0.00	0.11
2.45	0.03	0.00	0.03	5.05	0.11	0.00	0.11
2.50	0.03	0.00	0.03	5.10	0.11	0.00	0.11
2.55	0.03	0.00	0.03	5.15	0.11	0.00	0.11

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.11	0.00	0.11	7.80	0.23	0.00	0.23
5.25	0.12	0.00	0.12	7.85	0.24	0.00	0.24
5.30	0.12	0.00	0.12	7.90	0.24	0.00	0.24
5.35	0.12	0.00	0.12	7.95	0.24	0.00	0.24
5.40	0.12	0.00	0.12	8.00	0.24	0.00	0.24
5.45	0.12	0.00	0.12	8.05	0.25	0.00	0.25
5.50	0.12	0.00	0.12	8.10	0.25	0.00	0.25
5.55	0.12	0.00	0.12	8.15	0.25	0.00	0.25
5.60	0.13	0.00	0.13	8.20	0.26	0.00	0.26
5.65	0.13	0.00	0.13	8.25	0.26	0.00	0.26
5.70	0.13	0.00	0.13	8.30	0.26	0.00	0.26
5.75	0.13	0.00	0.13	8.35	0.27	0.00	0.27
5.80	0.13	0.00	0.13	8.40	0.27	0.00	0.27
5.85	0.13	0.00	0.13	8.45	0.27	0.00	0.27
5.90	0.13	0.00	0.13	8.50	0.27	0.00	0.27
5.95	0.13	0.00	0.13	8.55	0.28	0.00	0.28
6.00	0.14	0.00	0.14	8.60	0.28	0.00	0.28
6.05	0.14	0.00	0.14	8.65	0.28	0.00	0.28
6.10	0.14	0.00	0.14	8.70	0.29	0.00	0.29
6.15	0.14	0.00	0.14	8.75	0.29	0.00	0.29
6.20	0.14	0.00	0.14	8.80	0.29	0.00	0.29
6.25	0.15	0.00	0.15	8.85	0.30	0.00	0.30
6.30	0.15	0.00	0.15	8.90	0.30	0.00	0.30
6.35	0.15	0.00	0.15	8.95	0.30	0.00	0.30
6.40	0.15	0.00	0.15	9.00	0.31	0.00	0.31
6.45	0.16	0.00	0.16	9.05	0.31	0.00	0.31
6.50	0.16	0.00	0.16	9.10	0.32	0.00	0.32
6.55	0.16	0.00	0.16	9.15	0.33	0.00	0.33
6.60	0.17	0.00	0.17	9.20	0.34	0.00	0.34
6.65	0.17	0.00	0.17	9.25	0.35	0.00	0.35
6.70	0.17	0.00	0.17	9.30	0.36	0.00	0.36
6.75	0.17	0.00	0.17	9.35	0.37	0.00	0.37
6.80	0.18	0.00	0.18	9.40	0.38	0.00	0.38
6.85	0.18	0.00	0.18	9.45	0.39	0.00	0.39
6.90	0.18	0.00	0.18	9.50	0.40	0.00	0.40
6.95	0.18	0.00	0.18	9.55	0.41	0.00	0.41
7.00	0.19	0.00	0.19	9.60	0.42	0.00	0.42
7.05	0.19	0.00	0.19	9.65	0.43	0.00	0.43
7.10	0.19	0.00	0.19	9.70	0.44	0.00	0.44
7.15	0.20	0.00	0.20	9.75	0.45	0.00	0.45
7.20	0.20	0.00	0.20	9.80	0.46	0.00	0.46
7.25	0.20	0.00	0.20	9.85	0.48	0.00	0.48
7.30	0.20	0.00	0.20	9.90	0.49	0.00	0.49
7.35	0.21	0.00	0.21	9.95	0.50	0.00	0.50
7.40	0.21	0.00	0.21	10.00	0.51	0.00	0.51
7.45	0.21	0.00	0.21	10.05	0.52	0.00	0.52
7.50	0.22	0.00	0.22	10.10	0.54	0.00	0.54
7.55	0.22	0.00	0.22	10.15	0.55	0.00	0.55
7.60	0.22	0.00	0.22	10.20	0.56	0.00	0.56
7.65	0.22	0.00	0.22	10.25	0.57	0.00	0.57
7.70	0.23	0.00	0.23	10.30	0.59	0.00	0.59
7.75	0.23	0.00	0.23	10.35	0.60	0.00	0.60

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.61	0.00	0.61	13.00	2.15	0.00	2.15
10.45	0.63	0.00	0.63	13.05	2.02	0.00	2.02
10.50	0.64	0.00	0.64	13.10	1.90	0.00	1.90
10.55	0.67	0.00	0.67	13.15	1.80	0.00	1.80
10.60	0.70	0.00	0.70	13.20	1.71	0.00	1.71
10.65	0.73	0.00	0.73	13.25	1.62	0.00	1.62
10.70	0.77	0.00	0.77	13.30	1.55	0.00	1.55
10.75	0.81	0.00	0.81	13.35	1.48	0.00	1.48
10.80	0.85	0.00	0.85	13.40	1.41	0.00	1.41
10.85	0.90	0.00	0.90	13.45	1.35	0.00	1.35
10.90	0.94	0.00	0.94	13.50	1.28	0.00	1.28
10.95	0.99	0.00	0.99	13.55	1.22	0.00	1.22
11.00	1.03	0.00	1.03	13.60	1.16	0.00	1.16
11.05	1.09	0.00	1.09	13.65	1.11	0.00	1.11
11.10	1.16	0.00	1.16	13.70	1.08	0.00	1.08
11.15	1.24	0.00	1.24	13.75	1.05	0.00	1.05
11.20	1.32	0.00	1.32	13.80	1.02	0.00	1.02
11.25	1.40	0.00	1.40	13.85	1.00	0.00	1.00
11.30	1.48	0.00	1.48	13.90	0.98	0.00	0.98
11.35	1.57	0.00	1.57	13.95	0.96	0.00	0.96
11.40	1.66	0.00	1.66	14.00	0.94	0.00	0.94
11.45	1.74	0.00	1.74	14.05	0.92	0.00	0.92
11.50	1.82	0.00	1.82	14.10	0.91	0.00	0.91
11.55	2.11	0.00	2.11	14.15	0.89	0.00	0.89
11.60	2.48	0.00	2.48	14.20	0.87	0.00	0.87
11.65	2.75	0.00	2.75	14.25	0.86	0.00	0.86
11.70	2.95	0.00	2.95	14.30	0.84	0.00	0.84
11.75	3.36	0.00	3.36	14.35	0.83	0.00	0.83
11.80	3.83	0.00	3.83	14.40	0.81	0.00	0.81
11.85	4.53	0.00	4.53	14.45	0.80	0.00	0.80
11.90	5.30	0.00	5.30	14.50	0.78	0.00	0.78
11.95	6.83	0.00	6.83	14.55	0.77	0.00	0.77
12.00	8.66	0.00	8.66	14.60	0.75	0.00	0.75
12.05	11.54	0.00	11.54	14.65	0.73	0.00	0.73
12.10	**14.81**	0.00	**14.81**	14.70	0.72	0.00	0.72
12.15	**14.09**	0.00	**14.09**	14.75	0.71	0.00	0.71
12.20	11.45	0.00	11.45	14.80	0.69	0.00	0.69
12.25	9.54	0.00	9.54	14.85	0.68	0.00	0.68
12.30	8.07	0.00	8.07	14.90	0.66	0.00	0.66
12.35	6.90	0.00	6.90	14.95	0.65	0.00	0.65
12.40	5.95	0.00	5.95	15.00	0.63	0.00	0.63
12.45	5.32	0.00	5.32	15.05	0.62	0.00	0.62
12.50	4.89	0.00	4.89	15.10	0.60	0.00	0.60
12.55	4.35	0.00	4.35	15.15	0.59	0.00	0.59
12.60	3.78	0.00	3.78	15.20	0.58	0.00	0.58
12.65	3.40	0.00	3.40	15.25	0.57	0.00	0.57
12.70	3.13	0.00	3.13	15.30	0.57	0.00	0.57
12.75	2.91	0.00	2.91	15.35	0.56	0.00	0.56
12.80	2.72	0.00	2.72	15.40	0.56	0.00	0.56
12.85	2.56	0.00	2.56	15.45	0.55	0.00	0.55
12.90	2.42	0.00	2.42	15.50	0.55	0.00	0.55
12.95	2.28	0.00	2.28	15.55	0.54	0.00	0.54

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.54	0.00	0.54	18.20	0.33	0.00	0.33
15.65	0.53	0.00	0.53	18.25	0.33	0.00	0.33
15.70	0.53	0.00	0.53	18.30	0.33	0.00	0.33
15.75	0.53	0.00	0.53	18.35	0.33	0.00	0.33
15.80	0.52	0.00	0.52	18.40	0.33	0.00	0.33
15.85	0.52	0.00	0.52	18.45	0.33	0.00	0.33
15.90	0.51	0.00	0.51	18.50	0.32	0.00	0.32
15.95	0.51	0.00	0.51	18.55	0.32	0.00	0.32
16.00	0.51	0.00	0.51	18.60	0.32	0.00	0.32
16.05	0.50	0.00	0.50	18.65	0.32	0.00	0.32
16.10	0.50	0.00	0.50	18.70	0.32	0.00	0.32
16.15	0.49	0.00	0.49	18.75	0.32	0.00	0.32
16.20	0.49	0.00	0.49	18.80	0.32	0.00	0.32
16.25	0.49	0.00	0.49	18.85	0.32	0.00	0.32
16.30	0.48	0.00	0.48	18.90	0.32	0.00	0.32
16.35	0.48	0.00	0.48	18.95	0.32	0.00	0.32
16.40	0.47	0.00	0.47	19.00	0.31	0.00	0.31
16.45	0.47	0.00	0.47	19.05	0.31	0.00	0.31
16.50	0.47	0.00	0.47	19.10	0.31	0.00	0.31
16.55	0.46	0.00	0.46	19.15	0.31	0.00	0.31
16.60	0.46	0.00	0.46	19.20	0.31	0.00	0.31
16.65	0.45	0.00	0.45	19.25	0.31	0.00	0.31
16.70	0.45	0.00	0.45	19.30	0.31	0.00	0.31
16.75	0.45	0.00	0.45	19.35	0.31	0.00	0.31
16.80	0.44	0.00	0.44	19.40	0.31	0.00	0.31
16.85	0.44	0.00	0.44	19.45	0.31	0.00	0.31
16.90	0.43	0.00	0.43	19.50	0.30	0.00	0.30
16.95	0.43	0.00	0.43	19.55	0.30	0.00	0.30
17.00	0.43	0.00	0.43	19.60	0.30	0.00	0.30
17.05	0.42	0.00	0.42	19.65	0.30	0.00	0.30
17.10	0.42	0.00	0.42	19.70	0.30	0.00	0.30
17.15	0.41	0.00	0.41	19.75	0.30	0.00	0.30
17.20	0.41	0.00	0.41	19.80	0.30	0.00	0.30
17.25	0.41	0.00	0.41	19.85	0.30	0.00	0.30
17.30	0.40	0.00	0.40	19.90	0.30	0.00	0.30
17.35	0.40	0.00	0.40	19.95	0.30	0.00	0.30
17.40	0.39	0.00	0.39	20.00	0.29	0.00	0.29
17.45	0.39	0.00	0.39	20.05	0.29	0.00	0.29
17.50	0.39	0.00	0.39	20.10	0.29	0.00	0.29
17.55	0.38	0.00	0.38	20.15	0.29	0.00	0.29
17.60	0.38	0.00	0.38	20.20	0.29	0.00	0.29
17.65	0.37	0.00	0.37	20.25	0.29	0.00	0.29
17.70	0.37	0.00	0.37	20.30	0.29	0.00	0.29
17.75	0.37	0.00	0.37	20.35	0.29	0.00	0.29
17.80	0.36	0.00	0.36	20.40	0.29	0.00	0.29
17.85	0.36	0.00	0.36	20.45	0.29	0.00	0.29
17.90	0.35	0.00	0.35	20.50	0.28	0.00	0.28
17.95	0.35	0.00	0.35	20.55	0.28	0.00	0.28
18.00	0.35	0.00	0.35	20.60	0.28	0.00	0.28
18.05	0.34	0.00	0.34	20.65	0.28	0.00	0.28
18.10	0.34	0.00	0.34	20.70	0.28	0.00	0.28
18.15	0.34	0.00	0.34	20.75	0.28	0.00	0.28

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.28	0.00	0.28	23.40	0.23	0.00	0.23
20.85	0.28	0.00	0.28	23.45	0.23	0.00	0.23
20.90	0.28	0.00	0.28	23.50	0.22	0.00	0.22
20.95	0.28	0.00	0.28	23.55	0.22	0.00	0.22
21.00	0.27	0.00	0.27	23.60	0.22	0.00	0.22
21.05	0.27	0.00	0.27	23.65	0.22	0.00	0.22
21.10	0.27	0.00	0.27	23.70	0.22	0.00	0.22
21.15	0.27	0.00	0.27	23.75	0.22	0.00	0.22
21.20	0.27	0.00	0.27	23.80	0.22	0.00	0.22
21.25	0.27	0.00	0.27	23.85	0.22	0.00	0.22
21.30	0.27	0.00	0.27	23.90	0.22	0.00	0.22
21.35	0.27	0.00	0.27	23.95	0.23	0.00	0.23
21.40	0.27	0.00	0.27	24.00	0.24	0.00	0.24
21.45	0.27	0.00	0.27				
21.50	0.26	0.00	0.26				
21.55	0.26	0.00	0.26				
21.60	0.26	0.00	0.26				
21.65	0.26	0.00	0.26				
21.70	0.26	0.00	0.26				
21.75	0.26	0.00	0.26				
21.80	0.26	0.00	0.26				
21.85	0.26	0.00	0.26				
21.90	0.26	0.00	0.26				
21.95	0.26	0.00	0.26				
22.00	0.25	0.00	0.25				
22.05	0.25	0.00	0.25				
22.10	0.25	0.00	0.25				
22.15	0.25	0.00	0.25				
22.20	0.25	0.00	0.25				
22.25	0.25	0.00	0.25				
22.30	0.25	0.00	0.25				
22.35	0.25	0.00	0.25				
22.40	0.25	0.00	0.25				
22.45	0.25	0.00	0.25				
22.50	0.24	0.00	0.24				
22.55	0.24	0.00	0.24				
22.60	0.24	0.00	0.24				
22.65	0.24	0.00	0.24				
22.70	0.24	0.00	0.24				
22.75	0.24	0.00	0.24				
22.80	0.24	0.00	0.24				
22.85	0.24	0.00	0.24				
22.90	0.24	0.00	0.24				
22.95	0.24	0.00	0.24				
23.00	0.24	0.00	0.24				
23.05	0.23	0.00	0.23				
23.10	0.23	0.00	0.23				
23.15	0.23	0.00	0.23				
23.20	0.23	0.00	0.23				
23.25	0.23	0.00	0.23				
23.30	0.23	0.00	0.23				
23.35	0.23	0.00	0.23				

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentEDA 1B PERV: EDA-1B PERV Runoff Area=0.380 ac 0.00% Impervious Runoff Depth>0.97"
Flow Length=761' Tc=5.5 min CN=53 Runoff=0.32 cfs 0.031 af

SubcatchmentEDA1A IMP: EDA1A IMP Runoff Area=1.100 ac 68.18% Impervious Runoff Depth>4.87"
Flow Length=496' Tc=3.2 min CN=97 Runoff=5.96 cfs 0.447 af

SubcatchmentEDA1A PERV: EDA-1APERV Runoff Area=0.280 ac 0.00% Impervious Runoff Depth>3.09"
Flow Length=496' Tc=3.2 min CN=80 Runoff=1.11 cfs 0.072 af

SubcatchmentEDA1B IMP: EDA1B IMP Runoff Area=1.550 ac 19.35% Impervious Runoff Depth>4.75"
Flow Length=787' Tc=6.3 min CN=96 Runoff=6.82 cfs 0.614 af

SubcatchmentEDA2 IMP: EDA2 IMP Runoff Area=0.310 ac 100.00% Impervious Runoff Depth>4.99"
Flow Length=351' Tc=2.3 min CN=98 Runoff=1.80 cfs 0.129 af

SubcatchmentEDA3 IMP: EDA3 IMP Runoff Area=0.800 ac 100.00% Impervious Runoff Depth>4.99"
Flow Length=804' Tc=4.8 min CN=98 Runoff=3.92 cfs 0.332 af

SubcatchmentEDA3 PERV: EDA3 PERV Runoff Area=0.850 ac 0.00% Impervious Runoff Depth>3.09"
Flow Length=131' Tc=3.6 min CN=80 Runoff=3.27 cfs 0.219 af

SubcatchmentEDA4 IMP: EDA4 IMP Runoff Area=0.170 ac 70.59% Impervious Runoff Depth>4.87"
Flow Length=188' Tc=1.9 min CN=97 Runoff=1.00 cfs 0.069 af

SubcatchmentEDA4 PERV: EDA4 PERV Runoff Area=1.440 ac 0.00% Impervious Runoff Depth>3.07"
Flow Length=415' Tc=15.9 min CN=80 Runoff=2.95 cfs 0.369 af

Link E1A: E1A Inflow=7.07 cfs 0.519 af
Primary=7.07 cfs 0.519 af

Link E1B: E1B Inflow=8.61 cfs 0.773 af
Primary=8.61 cfs 0.773 af

Link EPOI-1: EPOI-1 Inflow=25.67 cfs 2.281 af
Primary=25.67 cfs 2.281 af

Total Runoff Area = 6.880 ac Runoff Volume = 2.281 af Average Runoff Depth = 3.98"
66.86% Pervious = 4.600 ac 33.14% Impervious = 2.280 ac

Summary for Subcatchment EDA 1B PERV: EDA-1B PERV

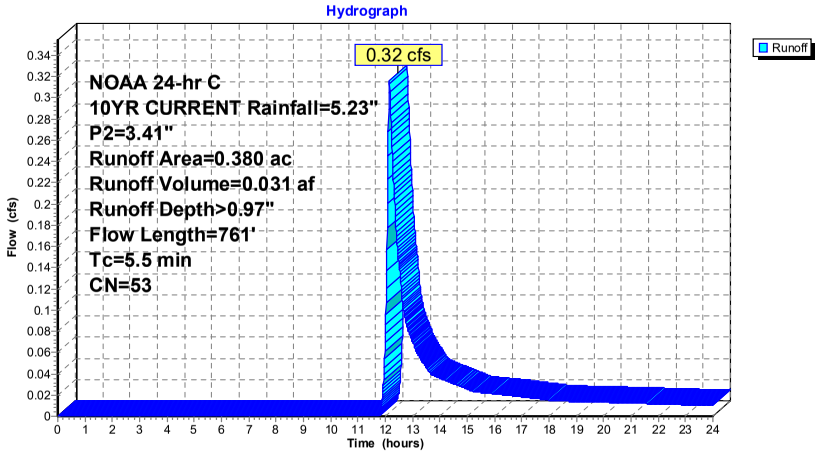
Runoff = 0.32 cfs @ 12.15 hrs, Volume= 0.031 af, Depth> 0.97"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR CURRENT Rainfall=5.23", P2=3.41"

Area (ac)	CN	Description
0.250	39	>75% Grass cover, Good, HSG A
0.130	80	>75% Grass cover, Good, HSG D
0.380	53	Weighted Average
0.380		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	93	0.0100	1.06		**Sheet Flow, Grass** Smooth surfaces n= 0.011 P2= 3.41"
0.8	74	0.0100	1.50		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.3	93	0.0110	5.40	9.55	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
5.5	761	Total			

Subcatchment EDA 1B PERV: EDA-1B PERV



Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.16	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.16	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.16	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.17	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.17	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.17	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.18	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.18	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.18	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.19	0.00	0.00
0.50	0.03	0.00	0.00	3.10	0.19	0.00	0.00
0.55	0.03	0.00	0.00	3.15	0.19	0.00	0.00
0.60	0.03	0.00	0.00	3.20	0.20	0.00	0.00
0.65	0.04	0.00	0.00	3.25	0.20	0.00	0.00
0.70	0.04	0.00	0.00	3.30	0.21	0.00	0.00
0.75	0.04	0.00	0.00	3.35	0.21	0.00	0.00
0.80	0.05	0.00	0.00	3.40	0.21	0.00	0.00
0.85	0.05	0.00	0.00	3.45	0.22	0.00	0.00
0.90	0.05	0.00	0.00	3.50	0.22	0.00	0.00
0.95	0.05	0.00	0.00	3.55	0.22	0.00	0.00
1.00	0.06	0.00	0.00	3.60	0.23	0.00	0.00
1.05	0.06	0.00	0.00	3.65	0.23	0.00	0.00
1.10	0.06	0.00	0.00	3.70	0.23	0.00	0.00
1.15	0.07	0.00	0.00	3.75	0.24	0.00	0.00
1.20	0.07	0.00	0.00	3.80	0.24	0.00	0.00
1.25	0.07	0.00	0.00	3.85	0.24	0.00	0.00
1.30	0.07	0.00	0.00	3.90	0.25	0.00	0.00
1.35	0.08	0.00	0.00	3.95	0.25	0.00	0.00
1.40	0.08	0.00	0.00	4.00	0.26	0.00	0.00
1.45	0.08	0.00	0.00	4.05	0.26	0.00	0.00
1.50	0.09	0.00	0.00	4.10	0.26	0.00	0.00
1.55	0.09	0.00	0.00	4.15	0.27	0.00	0.00
1.60	0.09	0.00	0.00	4.20	0.27	0.00	0.00
1.65	0.10	0.00	0.00	4.25	0.27	0.00	0.00
1.70	0.10	0.00	0.00	4.30	0.28	0.00	0.00
1.75	0.10	0.00	0.00	4.35	0.28	0.00	0.00
1.80	0.11	0.00	0.00	4.40	0.29	0.00	0.00
1.85	0.11	0.00	0.00	4.45	0.29	0.00	0.00
1.90	0.11	0.00	0.00	4.50	0.29	0.00	0.00
1.95	0.12	0.00	0.00	4.55	0.30	0.00	0.00
2.00	0.12	0.00	0.00	4.60	0.30	0.00	0.00
2.05	0.12	0.00	0.00	4.65	0.31	0.00	0.00
2.10	0.12	0.00	0.00	4.70	0.31	0.00	0.00
2.15	0.13	0.00	0.00	4.75	0.31	0.00	0.00
2.20	0.13	0.00	0.00	4.80	0.32	0.00	0.00
2.25	0.13	0.00	0.00	4.85	0.32	0.00	0.00
2.30	0.14	0.00	0.00	4.90	0.32	0.00	0.00
2.35	0.14	0.00	0.00	4.95	0.33	0.00	0.00
2.40	0.14	0.00	0.00	5.00	0.33	0.00	0.00
2.45	0.15	0.00	0.00	5.05	0.34	0.00	0.00
2.50	0.15	0.00	0.00	5.10	0.34	0.00	0.00
2.55	0.15	0.00	0.00	5.15	0.34	0.00	0.00

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.35	0.00	0.00	7.80	0.60	0.00	0.00
5.25	0.35	0.00	0.00	7.85	0.61	0.00	0.00
5.30	0.36	0.00	0.00	7.90	0.61	0.00	0.00
5.35	0.36	0.00	0.00	7.95	0.62	0.00	0.00
5.40	0.36	0.00	0.00	8.00	0.63	0.00	0.00
5.45	0.37	0.00	0.00	8.05	0.63	0.00	0.00
5.50	0.37	0.00	0.00	8.10	0.64	0.00	0.00
5.55	0.38	0.00	0.00	8.15	0.65	0.00	0.00
5.60	0.38	0.00	0.00	8.20	0.65	0.00	0.00
5.65	0.39	0.00	0.00	8.25	0.66	0.00	0.00
5.70	0.39	0.00	0.00	8.30	0.67	0.00	0.00
5.75	0.39	0.00	0.00	8.35	0.67	0.00	0.00
5.80	0.40	0.00	0.00	8.40	0.68	0.00	0.00
5.85	0.40	0.00	0.00	8.45	0.69	0.00	0.00
5.90	0.41	0.00	0.00	8.50	0.69	0.00	0.00
5.95	0.41	0.00	0.00	8.55	0.70	0.00	0.00
6.00	0.41	0.00	0.00	8.60	0.71	0.00	0.00
6.05	0.42	0.00	0.00	8.65	0.71	0.00	0.00
6.10	0.42	0.00	0.00	8.70	0.72	0.00	0.00
6.15	0.43	0.00	0.00	8.75	0.73	0.00	0.00
6.20	0.43	0.00	0.00	8.80	0.73	0.00	0.00
6.25	0.44	0.00	0.00	8.85	0.74	0.00	0.00
6.30	0.44	0.00	0.00	8.90	0.75	0.00	0.00
6.35	0.45	0.00	0.00	8.95	0.76	0.00	0.00
6.40	0.45	0.00	0.00	9.00	0.76	0.00	0.00
6.45	0.45	0.00	0.00	9.05	0.77	0.00	0.00
6.50	0.46	0.00	0.00	9.10	0.78	0.00	0.00
6.55	0.46	0.00	0.00	9.15	0.79	0.00	0.00
6.60	0.47	0.00	0.00	9.20	0.80	0.00	0.00
6.65	0.47	0.00	0.00	9.25	0.80	0.00	0.00
6.70	0.48	0.00	0.00	9.30	0.81	0.00	0.00
6.75	0.48	0.00	0.00	9.35	0.82	0.00	0.00
6.80	0.49	0.00	0.00	9.40	0.83	0.00	0.00
6.85	0.49	0.00	0.00	9.45	0.84	0.00	0.00
6.90	0.50	0.00	0.00	9.50	0.85	0.00	0.00
6.95	0.50	0.00	0.00	9.55	0.86	0.00	0.00
7.00	0.51	0.00	0.00	9.60	0.87	0.00	0.00
7.05	0.52	0.00	0.00	9.65	0.88	0.00	0.00
7.10	0.52	0.00	0.00	9.70	0.89	0.00	0.00
7.15	0.53	0.00	0.00	9.75	0.90	0.00	0.00
7.20	0.53	0.00	0.00	9.80	0.91	0.00	0.00
7.25	0.54	0.00	0.00	9.85	0.92	0.00	0.00
7.30	0.54	0.00	0.00	9.90	0.93	0.00	0.00
7.35	0.55	0.00	0.00	9.95	0.94	0.00	0.00
7.40	0.55	0.00	0.00	10.00	0.95	0.00	0.00
7.45	0.56	0.00	0.00	10.05	0.97	0.00	0.00
7.50	0.57	0.00	0.00	10.10	0.98	0.00	0.00
7.55	0.57	0.00	0.00	10.15	0.99	0.00	0.00
7.60	0.58	0.00	0.00	10.20	1.00	0.00	0.00
7.65	0.58	0.00	0.00	10.25	1.01	0.00	0.00
7.70	0.59	0.00	0.00	10.30	1.03	0.00	0.00
7.75	0.60	0.00	0.00	10.35	1.04	0.00	0.00

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.05	0.00	0.00	13.00	3.97	0.44	0.07
10.45	1.06	0.00	0.00	13.05	4.00	0.45	0.07
10.50	1.08	0.00	0.00	13.10	4.02	0.45	0.06
10.55	1.09	0.00	0.00	13.15	4.04	0.46	0.06
10.60	1.11	0.00	0.00	13.20	4.05	0.47	0.06
10.65	1.12	0.00	0.00	13.25	4.07	0.47	0.06
10.70	1.14	0.00	0.00	13.30	4.09	0.48	0.05
10.75	1.16	0.00	0.00	13.35	4.11	0.49	0.05
10.80	1.18	0.00	0.00	13.40	4.12	0.49	0.05
10.85	1.19	0.00	0.00	13.45	4.14	0.50	0.05
10.90	1.21	0.00	0.00	13.50	4.15	0.50	0.05
10.95	1.23	0.00	0.00	13.55	4.17	0.51	0.04
11.00	1.26	0.00	0.00	13.60	4.18	0.51	0.04
11.05	1.28	0.00	0.00	13.65	4.19	0.52	0.04
11.10	1.30	0.00	0.00	13.70	4.20	0.52	0.04
11.15	1.33	0.00	0.00	13.75	4.22	0.53	0.04
11.20	1.35	0.00	0.00	13.80	4.23	0.53	0.04
11.25	1.38	0.00	0.00	13.85	4.24	0.54	0.04
11.30	1.41	0.00	0.00	13.90	4.25	0.54	0.04
11.35	1.45	0.00	0.00	13.95	4.26	0.55	0.04
11.40	1.48	0.00	0.00	14.00	4.28	0.55	0.04
11.45	1.51	0.00	0.00	14.05	4.29	0.56	0.04
11.50	1.55	0.00	0.00	14.10	4.30	0.56	0.03
11.55	1.60	0.00	0.00	14.15	4.31	0.56	0.03
11.60	1.65	0.00	0.00	14.20	4.32	0.57	0.03
11.65	1.71	0.00	0.00	14.25	4.33	0.57	0.03
11.70	1.76	0.00	0.00	14.30	4.34	0.58	0.03
11.75	1.84	0.00	0.00	14.35	4.35	0.58	0.03
11.80	1.92	0.00	0.00	14.40	4.36	0.58	0.03
11.85	2.02	0.01	0.01	14.45	4.37	0.59	0.03
11.90	2.13	0.01	0.02	14.50	4.38	0.59	0.03
11.95	2.31	0.03	0.04	14.55	4.39	0.60	0.03
12.00	2.49	0.05	0.08	14.60	4.40	0.60	0.03
12.05	2.80	0.11	0.14	14.65	4.41	0.60	0.03
12.10	3.10	0.17	0.25	14.70	4.42	0.61	0.03
12.15	3.21	0.20	**0.32**	14.75	4.43	0.61	0.03
12.20	3.31	0.23	0.28	14.80	4.43	0.61	0.03
12.25	3.39	0.25	0.25	14.85	4.44	0.62	0.03
12.30	3.47	0.27	0.22	14.90	4.45	0.62	0.03
12.35	3.52	0.29	0.20	14.95	4.46	0.62	0.03
12.40	3.58	0.31	0.17	15.00	4.47	0.63	0.03
12.45	3.63	0.32	0.16	15.05	4.47	0.63	0.02
12.50	3.68	0.34	0.14	15.10	4.48	0.63	0.02
12.55	3.72	0.35	0.13	15.15	4.49	0.64	0.02
12.60	3.75	0.36	0.12	15.20	4.50	0.64	0.02
12.65	3.78	0.37	0.10	15.25	4.50	0.64	0.02
12.70	3.82	0.38	0.09	15.30	4.51	0.65	0.02
12.75	3.85	0.39	0.09	15.35	4.52	0.65	0.02
12.80	3.88	0.40	0.08	15.40	4.52	0.65	0.02
12.85	3.90	0.41	0.08	15.45	4.53	0.65	0.02
12.90	3.93	0.42	0.08	15.50	4.54	0.66	0.02
12.95	3.95	0.43	0.07	15.55	4.54	0.66	0.02

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	4.55	0.66	0.02	18.20	4.83	0.78	0.01
15.65	4.56	0.67	0.02	18.25	4.84	0.79	0.01
15.70	4.56	0.67	0.02	18.30	4.84	0.79	0.01
15.75	4.57	0.67	0.02	18.35	4.84	0.79	0.01
15.80	4.58	0.67	0.02	18.40	4.85	0.79	0.01
15.85	4.58	0.68	0.02	18.45	4.85	0.79	0.01
15.90	4.59	0.68	0.02	18.50	4.86	0.80	0.01
15.95	4.60	0.68	0.02	18.55	4.86	0.80	0.01
16.00	4.60	0.68	0.02	18.60	4.87	0.80	0.01
16.05	4.61	0.69	0.02	18.65	4.87	0.80	0.01
16.10	4.62	0.69	0.02	18.70	4.87	0.80	0.01
16.15	4.62	0.69	0.02	18.75	4.88	0.80	0.01
16.20	4.63	0.70	0.02	18.80	4.88	0.81	0.01
16.25	4.63	0.70	0.02	18.85	4.89	0.81	0.01
16.30	4.64	0.70	0.02	18.90	4.89	0.81	0.01
16.35	4.65	0.70	0.02	18.95	4.89	0.81	0.01
16.40	4.65	0.71	0.02	19.00	4.90	0.81	0.01
16.45	4.66	0.71	0.02	19.05	4.90	0.82	0.01
16.50	4.66	0.71	0.02	19.10	4.91	0.82	0.01
16.55	4.67	0.71	0.02	19.15	4.91	0.82	0.01
16.60	4.68	0.72	0.02	19.20	4.91	0.82	0.01
16.65	4.68	0.72	0.02	19.25	4.92	0.82	0.01
16.70	4.69	0.72	0.02	19.30	4.92	0.82	0.01
16.75	4.69	0.72	0.02	19.35	4.92	0.83	0.01
16.80	4.70	0.73	0.02	19.40	4.93	0.83	0.01
16.85	4.70	0.73	0.02	19.45	4.93	0.83	0.01
16.90	4.71	0.73	0.02	19.50	4.94	0.83	0.01
16.95	4.71	0.73	0.02	19.55	4.94	0.83	0.01
17.00	4.72	0.73	0.02	19.60	4.94	0.83	0.01
17.05	4.73	0.74	0.02	19.65	4.95	0.84	0.01
17.10	4.73	0.74	0.02	19.70	4.95	0.84	0.01
17.15	4.74	0.74	0.02	19.75	4.96	0.84	0.01
17.20	4.74	0.74	0.02	19.80	4.96	0.84	0.01
17.25	4.75	0.75	0.02	19.85	4.96	0.84	0.01
17.30	4.75	0.75	0.02	19.90	4.97	0.85	0.01
17.35	4.76	0.75	0.02	19.95	4.97	0.85	0.01
17.40	4.76	0.75	0.02	20.00	4.97	0.85	0.01
17.45	4.77	0.75	0.02	20.05	4.98	0.85	0.01
17.50	4.77	0.76	0.02	20.10	4.98	0.85	0.01
17.55	4.78	0.76	0.02	20.15	4.99	0.85	0.01
17.60	4.78	0.76	0.02	20.20	4.99	0.86	0.01
17.65	4.78	0.76	0.02	20.25	4.99	0.86	0.01
17.70	4.79	0.77	0.02	20.30	5.00	0.86	0.01
17.75	4.79	0.77	0.02	20.35	5.00	0.86	0.01
17.80	4.80	0.77	0.02	20.40	5.00	0.86	0.01
17.85	4.80	0.77	0.02	20.45	5.01	0.86	0.01
17.90	4.81	0.77	0.02	20.50	5.01	0.87	0.01
17.95	4.81	0.78	0.02	20.55	5.01	0.87	0.01
18.00	4.82	0.78	0.02	20.60	5.02	0.87	0.01
18.05	4.82	0.78	0.01	20.65	5.02	0.87	0.01
18.10	4.82	0.78	0.01	20.70	5.02	0.87	0.01
18.15	4.83	0.78	0.01	20.75	5.03	0.87	0.01

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.03	0.88	0.01	23.40	5.20	0.95	0.01
20.85	5.04	0.88	0.01	23.45	5.20	0.95	0.01
20.90	5.04	0.88	0.01	23.50	5.20	0.96	0.01
20.95	5.04	0.88	0.01	23.55	5.20	0.96	0.01
21.00	5.05	0.88	0.01	23.60	5.21	0.96	0.01
21.05	5.05	0.88	0.01	23.65	5.21	0.96	0.01
21.10	5.05	0.89	0.01	23.70	5.21	0.96	0.01
21.15	5.06	0.89	0.01	23.75	5.22	0.96	0.01
21.20	5.06	0.89	0.01	23.80	5.22	0.96	0.01
21.25	5.06	0.89	0.01	23.85	5.22	0.96	0.01
21.30	5.07	0.89	0.01	23.90	5.22	0.97	0.01
21.35	5.07	0.89	0.01	23.95	5.23	0.97	0.01
21.40	5.07	0.89	0.01	24.00	**5.23**	**0.97**	0.01
21.45	5.08	0.90	0.01				
21.50	5.08	0.90	0.01				
21.55	5.08	0.90	0.01				
21.60	5.09	0.90	0.01				
21.65	5.09	0.90	0.01				
21.70	5.09	0.90	0.01				
21.75	5.10	0.91	0.01				
21.80	5.10	0.91	0.01				
21.85	5.10	0.91	0.01				
21.90	5.11	0.91	0.01				
21.95	5.11	0.91	0.01				
22.00	5.11	0.91	0.01				
22.05	5.11	0.91	0.01				
22.10	5.12	0.92	0.01				
22.15	5.12	0.92	0.01				
22.20	5.12	0.92	0.01				
22.25	5.13	0.92	0.01				
22.30	5.13	0.92	0.01				
22.35	5.13	0.92	0.01				
22.40	5.14	0.92	0.01				
22.45	5.14	0.93	0.01				
22.50	5.14	0.93	0.01				
22.55	5.15	0.93	0.01				
22.60	5.15	0.93	0.01				
22.65	5.15	0.93	0.01				
22.70	5.16	0.93	0.01				
22.75	5.16	0.93	0.01				
22.80	5.16	0.94	0.01				
22.85	5.16	0.94	0.01				
22.90	5.17	0.94	0.01				
22.95	5.17	0.94	0.01				
23.00	5.17	0.94	0.01				
23.05	5.18	0.94	0.01				
23.10	5.18	0.94	0.01				
23.15	5.18	0.95	0.01				
23.20	5.18	0.95	0.01				
23.25	5.19	0.95	0.01				
23.30	5.19	0.95	0.01				
23.35	5.19	0.95	0.01				

Summary for Subcatchment EDA1A IMP: EDA1A IMP

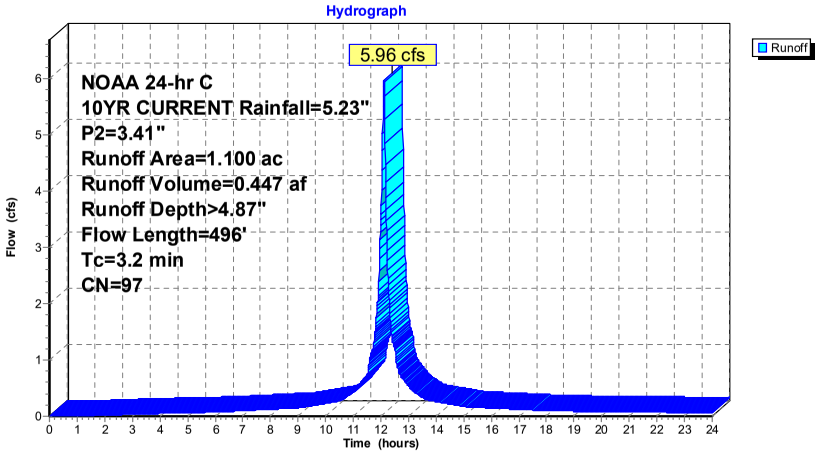
Runoff = 5.96 cfs @ 12.11 hrs, Volume= 0.447 af, Depth> 4.87"
Routed to Link E1A : E1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR CURRENT Rainfall=5.23", P2=3.41"

	Area (ac)	CN	Description
	0.350	96	Gravel surface, HSG D
*	0.570	98	Impervious vehicular
*	0.180	98	Impervious non vehicular
	1.100	97	Weighted Average
	0.350		31.82% Pervious Area
	0.750		68.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	100	0.0100	1.08		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
3.2	496	Total			

Subcatchment EDA1A IMP: EDA1A IMP



Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.16	0.02	0.03
0.05	0.00	0.00	0.00	2.65	0.16	0.02	0.03
0.10	0.01	0.00	0.00	2.70	0.16	0.03	0.03
0.15	0.01	0.00	0.00	2.75	0.17	0.03	0.03
0.20	0.01	0.00	0.00	2.80	0.17	0.03	0.03
0.25	0.01	0.00	0.00	2.85	0.17	0.03	0.03
0.30	0.02	0.00	0.00	2.90	0.18	0.03	0.03
0.35	0.02	0.00	0.00	2.95	0.18	0.03	0.04
0.40	0.02	0.00	0.00	3.00	0.18	0.03	0.04
0.45	0.03	0.00	0.00	3.05	0.19	0.04	0.04
0.50	0.03	0.00	0.00	3.10	0.19	0.04	0.04
0.55	0.03	0.00	0.00	3.15	0.19	0.04	0.04
0.60	0.03	0.00	0.00	3.20	0.20	0.04	0.04
0.65	0.04	0.00	0.00	3.25	0.20	0.04	0.04
0.70	0.04	0.00	0.00	3.30	0.21	0.05	0.04
0.75	0.04	0.00	0.00	3.35	0.21	0.05	0.04
0.80	0.05	0.00	0.00	3.40	0.21	0.05	0.04
0.85	0.05	0.00	0.00	3.45	0.22	0.05	0.04
0.90	0.05	0.00	0.00	3.50	0.22	0.05	0.04
0.95	0.05	0.00	0.00	3.55	0.22	0.06	0.04
1.00	0.06	0.00	0.00	3.60	0.23	0.06	0.04
1.05	0.06	0.00	0.00	3.65	0.23	0.06	0.05
1.10	0.06	0.00	0.00	3.70	0.23	0.06	0.05
1.15	0.07	0.00	0.00	3.75	0.24	0.06	0.05
1.20	0.07	0.00	0.00	3.80	0.24	0.07	0.05
1.25	0.07	0.00	0.00	3.85	0.24	0.07	0.05
1.30	0.07	0.00	0.00	3.90	0.25	0.07	0.05
1.35	0.08	0.00	0.00	3.95	0.25	0.07	0.05
1.40	0.08	0.00	0.01	4.00	0.26	0.07	0.05
1.45	0.08	0.00	0.01	4.05	0.26	0.08	0.05
1.50	0.09	0.00	0.01	4.10	0.26	0.08	0.05
1.55	0.09	0.00	0.01	4.15	0.27	0.08	0.05
1.60	0.09	0.00	0.01	4.20	0.27	0.08	0.05
1.65	0.10	0.00	0.01	4.25	0.27	0.09	0.05
1.70	0.10	0.00	0.01	4.30	0.28	0.09	0.05
1.75	0.10	0.00	0.01	4.35	0.28	0.09	0.05
1.80	0.11	0.01	0.01	4.40	0.29	0.09	0.06
1.85	0.11	0.01	0.02	4.45	0.29	0.10	0.06
1.90	0.11	0.01	0.02	4.50	0.29	0.10	0.06
1.95	0.12	0.01	0.02	4.55	0.30	0.10	0.06
2.00	0.12	0.01	0.02	4.60	0.30	0.10	0.06
2.05	0.12	0.01	0.02	4.65	0.31	0.11	0.06
2.10	0.12	0.01	0.02	4.70	0.31	0.11	0.06
2.15	0.13	0.01	0.02	4.75	0.31	0.11	0.06
2.20	0.13	0.01	0.02	4.80	0.32	0.12	0.06
2.25	0.13	0.01	0.02	4.85	0.32	0.12	0.06
2.30	0.14	0.01	0.02	4.90	0.32	0.12	0.06
2.35	0.14	0.02	0.03	4.95	0.33	0.12	0.06
2.40	0.14	0.02	0.03	5.00	0.33	0.13	0.06
2.45	0.15	0.02	0.03	5.05	0.34	0.13	0.06
2.50	0.15	0.02	0.03	5.10	0.34	0.13	0.06
2.55	0.15	0.02	0.03	5.15	0.34	0.14	0.06

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.35	0.14	0.06	7.80	0.60	0.34	0.12
5.25	0.35	0.14	0.06	7.85	0.61	0.35	0.12
5.30	0.36	0.14	0.07	7.90	0.61	0.35	0.12
5.35	0.36	0.15	0.07	7.95	0.62	0.36	0.12
5.40	0.36	0.15	0.07	8.00	0.63	0.36	0.12
5.45	0.37	0.15	0.07	8.05	0.63	0.37	0.12
5.50	0.37	0.16	0.07	8.10	0.64	0.38	0.12
5.55	0.38	0.16	0.07	8.15	0.65	0.38	0.12
5.60	0.38	0.16	0.07	8.20	0.65	0.39	0.13
5.65	0.39	0.17	0.07	8.25	0.66	0.39	0.13
5.70	0.39	0.17	0.07	8.30	0.67	0.40	0.13
5.75	0.39	0.17	0.07	8.35	0.67	0.41	0.13
5.80	0.40	0.17	0.07	8.40	0.68	0.41	0.13
5.85	0.40	0.18	0.07	8.45	0.69	0.42	0.13
5.90	0.41	0.18	0.07	8.50	0.69	0.42	0.13
5.95	0.41	0.18	0.07	8.55	0.70	0.43	0.14
6.00	0.41	0.19	0.07	8.60	0.71	0.44	0.14
6.05	0.42	0.19	0.07	8.65	0.71	0.44	0.14
6.10	0.42	0.19	0.07	8.70	0.72	0.45	0.14
6.15	0.43	0.20	0.08	8.75	0.73	0.45	0.14
6.20	0.43	0.20	0.08	8.80	0.73	0.46	0.14
6.25	0.44	0.21	0.08	8.85	0.74	0.47	0.14
6.30	0.44	0.21	0.08	8.90	0.75	0.47	0.14
6.35	0.45	0.21	0.08	8.95	0.76	0.48	0.15
6.40	0.45	0.22	0.08	9.00	0.76	0.49	0.15
6.45	0.45	0.22	0.08	9.05	0.77	0.49	0.15
6.50	0.46	0.22	0.08	9.10	0.78	0.50	0.15
6.55	0.46	0.23	0.09	9.15	0.79	0.51	0.16
6.60	0.47	0.23	0.09	9.20	0.80	0.52	0.16
6.65	0.47	0.24	0.09	9.25	0.80	0.52	0.17
6.70	0.48	0.24	0.09	9.30	0.81	0.53	0.17
6.75	0.48	0.24	0.09	9.35	0.82	0.54	0.17
6.80	0.49	0.25	0.09	9.40	0.83	0.55	0.18
6.85	0.49	0.25	0.09	9.45	0.84	0.56	0.18
6.90	0.50	0.26	0.09	9.50	0.85	0.56	0.19
6.95	0.50	0.26	0.09	9.55	0.86	0.57	0.19
7.00	0.51	0.27	0.10	9.60	0.87	0.58	0.20
7.05	0.52	0.27	0.10	9.65	0.88	0.59	0.20
7.10	0.52	0.27	0.10	9.70	0.89	0.60	0.20
7.15	0.53	0.28	0.10	9.75	0.90	0.61	0.21
7.20	0.53	0.28	0.10	9.80	0.91	0.62	0.21
7.25	0.54	0.29	0.10	9.85	0.92	0.63	0.22
7.30	0.54	0.29	0.10	9.90	0.93	0.64	0.22
7.35	0.55	0.30	0.10	9.95	0.94	0.65	0.23
7.40	0.55	0.30	0.11	10.00	0.95	0.66	0.23
7.45	0.56	0.31	0.11	10.05	0.97	0.67	0.23
7.50	0.57	0.31	0.11	10.10	0.98	0.68	0.24
7.55	0.57	0.32	0.11	10.15	0.99	0.70	0.24
7.60	0.58	0.32	0.11	10.20	1.00	0.71	0.25
7.65	0.58	0.33	0.11	10.25	1.01	0.72	0.25
7.70	0.59	0.33	0.11	10.30	1.03	0.73	0.26
7.75	0.60	0.34	0.11	10.35	1.04	0.74	0.26

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.05	0.75	0.26	13.00	3.97	3.63	0.54
10.45	1.06	0.77	0.27	13.05	4.00	3.65	0.51
10.50	1.08	0.78	0.27	13.10	4.02	3.67	0.48
10.55	1.09	0.79	0.29	13.15	4.04	3.69	0.45
10.60	1.11	0.81	0.30	13.20	4.05	3.71	0.44
10.65	1.12	0.82	0.32	13.25	4.07	3.72	0.42
10.70	1.14	0.84	0.33	13.30	4.09	3.74	0.40
10.75	1.16	0.85	0.35	13.35	4.11	3.76	0.38
10.80	1.18	0.87	0.36	13.40	4.12	3.77	0.37
10.85	1.19	0.89	0.38	13.45	4.14	3.79	0.35
10.90	1.21	0.91	0.40	13.50	4.15	3.80	0.34
10.95	1.23	0.93	0.41	13.55	4.17	3.82	0.32
11.00	1.26	0.95	0.43	13.60	4.18	3.83	0.30
11.05	1.28	0.97	0.46	13.65	4.19	3.84	0.29
11.10	1.30	0.99	0.48	13.70	4.20	3.85	0.29
11.15	1.33	1.02	0.51	13.75	4.22	3.87	0.28
11.20	1.35	1.04	0.54	13.80	4.23	3.88	0.28
11.25	1.38	1.07	0.58	13.85	4.24	3.89	0.27
11.30	1.41	1.10	0.60	13.90	4.25	3.90	0.27
11.35	1.45	1.13	0.64	13.95	4.26	3.91	0.26
11.40	1.48	1.16	0.67	14.00	4.28	3.93	0.26
11.45	1.51	1.19	0.69	14.05	4.29	3.94	0.26
11.50	1.55	1.23	0.72	14.10	4.30	3.95	0.25
11.55	1.60	1.28	0.87	14.15	4.31	3.96	0.25
11.60	1.65	1.33	1.02	14.20	4.32	3.97	0.24
11.65	1.71	1.38	1.11	14.25	4.33	3.98	0.24
11.70	1.76	1.44	1.17	14.30	4.34	3.99	0.23
11.75	1.84	1.51	1.35	14.35	4.35	4.00	0.23
11.80	1.92	1.59	1.52	14.40	4.36	4.01	0.23
11.85	2.02	1.69	1.82	14.45	4.37	4.02	0.22
11.90	2.13	1.80	2.10	14.50	4.38	4.03	0.22
11.95	2.31	1.98	2.80	14.55	4.39	4.04	0.21
12.00	2.49	2.16	3.48	14.60	4.40	4.05	0.21
12.05	2.80	2.46	4.71	14.65	4.41	4.06	0.20
12.10	3.10	2.76	**5.85**	14.70	4.42	4.07	0.20
12.15	3.21	2.87	**4.85**	14.75	4.43	4.08	0.19
12.20	3.31	2.97	3.46	14.80	4.43	4.08	0.19
12.25	3.39	3.05	2.59	14.85	4.44	4.09	0.19
12.30	3.47	3.12	2.05	14.90	4.45	4.10	0.18
12.35	3.52	3.18	1.66	14.95	4.46	4.11	0.18
12.40	3.58	3.23	1.40	15.00	4.47	4.12	0.17
12.45	3.63	3.29	1.27	15.05	4.47	4.12	0.17
12.50	3.68	3.34	1.21	15.10	4.48	4.13	0.17
12.55	3.72	3.37	1.04	15.15	4.49	4.14	0.16
12.60	3.75	3.41	0.88	15.20	4.50	4.14	0.16
12.65	3.78	3.44	0.79	15.25	4.50	4.15	0.16
12.70	3.82	3.47	0.74	15.30	4.51	4.16	0.16
12.75	3.85	3.50	0.70	15.35	4.52	4.17	0.16
12.80	3.88	3.53	0.66	15.40	4.52	4.17	0.16
12.85	3.90	3.55	0.63	15.45	4.53	4.18	0.15
12.90	3.93	3.58	0.60	15.50	4.54	4.19	0.15
12.95	3.95	3.60	0.57	15.55	4.54	4.19	0.15

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	4.55	4.20	0.15	18.20	4.83	4.48	0.09
15.65	4.56	4.21	0.15	18.25	4.84	4.48	0.09
15.70	4.56	4.21	0.15	18.30	4.84	4.49	0.09
15.75	4.57	4.22	0.15	18.35	4.84	4.49	0.09
15.80	4.58	4.23	0.15	18.40	4.85	4.50	0.09
15.85	4.58	4.23	0.15	18.45	4.85	4.50	0.09
15.90	4.59	4.24	0.14	18.50	4.86	4.50	0.09
15.95	4.60	4.25	0.14	18.55	4.86	4.51	0.09
16.00	4.60	4.25	0.14	18.60	4.87	4.51	0.09
16.05	4.61	4.26	0.14	18.65	4.87	4.52	0.09
16.10	4.62	4.26	0.14	18.70	4.87	4.52	0.09
16.15	4.62	4.27	0.14	18.75	4.88	4.52	0.09
16.20	4.63	4.28	0.14	18.80	4.88	4.53	0.09
16.25	4.63	4.28	0.14	18.85	4.89	4.53	0.09
16.30	4.64	4.29	0.13	18.90	4.89	4.54	0.09
16.35	4.65	4.29	0.13	18.95	4.89	4.54	0.09
16.40	4.65	4.30	0.13	19.00	4.90	4.54	0.09
16.45	4.66	4.31	0.13	19.05	4.90	4.55	0.09
16.50	4.66	4.31	0.13	19.10	4.91	4.55	0.09
16.55	4.67	4.32	0.13	19.15	4.91	4.56	0.09
16.60	4.68	4.32	0.13	19.20	4.91	4.56	0.09
16.65	4.68	4.33	0.13	19.25	4.92	4.56	0.09
16.70	4.69	4.34	0.13	19.30	4.92	4.57	0.09
16.75	4.69	4.34	0.12	19.35	4.92	4.57	0.09
16.80	4.70	4.35	0.12	19.40	4.93	4.58	0.09
16.85	4.70	4.35	0.12	19.45	4.93	4.58	0.09
16.90	4.71	4.36	0.12	19.50	4.94	4.58	0.09
16.95	4.71	4.36	0.12	19.55	4.94	4.59	0.08
17.00	4.72	4.37	0.12	19.60	4.94	4.59	0.08
17.05	4.73	4.37	0.12	19.65	4.95	4.60	0.08
17.10	4.73	4.38	0.12	19.70	4.95	4.60	0.08
17.15	4.74	4.38	0.12	19.75	4.96	4.60	0.08
17.20	4.74	4.39	0.11	19.80	4.96	4.61	0.08
17.25	4.75	4.39	0.11	19.85	4.96	4.61	0.08
17.30	4.75	4.40	0.11	19.90	4.97	4.61	0.08
17.35	4.76	4.40	0.11	19.95	4.97	4.62	0.08
17.40	4.76	4.41	0.11	20.00	4.97	4.62	0.08
17.45	4.77	4.41	0.11	20.05	4.98	4.62	0.08
17.50	4.77	4.42	0.11	20.10	4.98	4.63	0.08
17.55	4.78	4.42	0.11	20.15	4.99	4.63	0.08
17.60	4.78	4.43	0.11	20.20	4.99	4.64	0.08
17.65	4.78	4.43	0.10	20.25	4.99	4.64	0.08
17.70	4.79	4.44	0.10	20.30	5.00	4.64	0.08
17.75	4.79	4.44	0.10	20.35	5.00	4.65	0.08
17.80	4.80	4.45	0.10	20.40	5.00	4.65	0.08
17.85	4.80	4.45	0.10	20.45	5.01	4.65	0.08
17.90	4.81	4.45	0.10	20.50	5.01	4.66	0.08
17.95	4.81	4.46	0.10	20.55	5.01	4.66	0.08
18.00	4.82	4.46	0.10	20.60	5.02	4.66	0.08
18.05	4.82	4.47	0.09	20.65	5.02	4.67	0.08
18.10	4.82	4.47	0.09	20.70	5.02	4.67	0.08
18.15	4.83	4.48	0.09	20.75	5.03	4.68	0.08

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.03	4.68	0.08	23.40	5.20	4.84	0.06
20.85	5.04	4.68	0.08	23.45	5.20	4.85	0.06
20.90	5.04	4.69	0.08	23.50	5.20	4.85	0.06
20.95	5.04	4.69	0.08	23.55	5.20	4.85	0.06
21.00	5.05	4.69	0.08	23.60	5.21	4.85	0.06
21.05	5.05	4.70	0.08	23.65	5.21	4.86	0.06
21.10	5.05	4.70	0.08	23.70	5.21	4.86	0.06
21.15	5.06	4.70	0.08	23.75	5.22	4.86	0.06
21.20	5.06	4.71	0.08	23.80	5.22	4.86	0.06
21.25	5.06	4.71	0.08	23.85	5.22	4.87	0.06
21.30	5.07	4.71	0.08	23.90	5.22	4.87	0.06
21.35	5.07	4.72	0.07	23.95	5.23	4.87	0.06
21.40	5.07	4.72	0.07	24.00	**5.23**	**4.88**	0.07
21.45	5.08	4.72	0.07				
21.50	5.08	4.73	0.07				
21.55	5.08	4.73	0.07				
21.60	5.09	4.73	0.07				
21.65	5.09	4.74	0.07				
21.70	5.09	4.74	0.07				
21.75	5.10	4.74	0.07				
21.80	5.10	4.75	0.07				
21.85	5.10	4.75	0.07				
21.90	5.11	4.75	0.07				
21.95	5.11	4.76	0.07				
22.00	5.11	4.76	0.07				
22.05	5.11	4.76	0.07				
22.10	5.12	4.76	0.07				
22.15	5.12	4.77	0.07				
22.20	5.12	4.77	0.07				
22.25	5.13	4.77	0.07				
22.30	5.13	4.78	0.07				
22.35	5.13	4.78	0.07				
22.40	5.14	4.78	0.07				
22.45	5.14	4.79	0.07				
22.50	5.14	4.79	0.07				
22.55	5.15	4.79	0.07				
22.60	5.15	4.80	0.07				
22.65	5.15	4.80	0.07				
22.70	5.16	4.80	0.07				
22.75	5.16	4.80	0.07				
22.80	5.16	4.81	0.07				
22.85	5.16	4.81	0.07				
22.90	5.17	4.81	0.07				
22.95	5.17	4.82	0.07				
23.00	5.17	4.82	0.07				
23.05	5.18	4.82	0.06				
23.10	5.18	4.83	0.06				
23.15	5.18	4.83	0.06				
23.20	5.18	4.83	0.06				
23.25	5.19	4.83	0.06				
23.30	5.19	4.84	0.06				
23.35	5.19	4.84	0.06				

Summary for Subcatchment EDA1A PERV: EDA-1A PERV

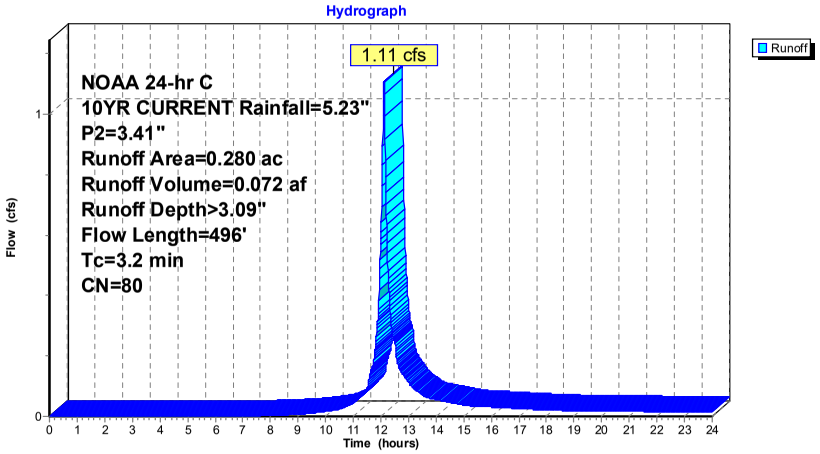
Runoff = 1.11 cfs @ 12.12 hrs, Volume= 0.072 af, Depth> 3.09"
Routed to Link E1A : E1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR CURRENT Rainfall=5.23", P2=3.41"

Area (ac)	CN	Description
0.280	80	>75% Grass cover, Good, HSG D
0.280		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	100	0.0100	1.08		**Sheet Flow, paved** Smooth surfaces n= 0.011 P2= 3.41"
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP-2 Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
3.2	496	Total			

Subcatchment EDA1A PERV: EDA-1A PERV



Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.16	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.16	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.16	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.17	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.17	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.17	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.18	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.18	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.18	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.19	0.00	0.00
0.50	0.03	0.00	0.00	3.10	0.19	0.00	0.00
0.55	0.03	0.00	0.00	3.15	0.19	0.00	0.00
0.60	0.03	0.00	0.00	3.20	0.20	0.00	0.00
0.65	0.04	0.00	0.00	3.25	0.20	0.00	0.00
0.70	0.04	0.00	0.00	3.30	0.21	0.00	0.00
0.75	0.04	0.00	0.00	3.35	0.21	0.00	0.00
0.80	0.05	0.00	0.00	3.40	0.21	0.00	0.00
0.85	0.05	0.00	0.00	3.45	0.22	0.00	0.00
0.90	0.05	0.00	0.00	3.50	0.22	0.00	0.00
0.95	0.05	0.00	0.00	3.55	0.22	0.00	0.00
1.00	0.06	0.00	0.00	3.60	0.23	0.00	0.00
1.05	0.06	0.00	0.00	3.65	0.23	0.00	0.00
1.10	0.06	0.00	0.00	3.70	0.23	0.00	0.00
1.15	0.07	0.00	0.00	3.75	0.24	0.00	0.00
1.20	0.07	0.00	0.00	3.80	0.24	0.00	0.00
1.25	0.07	0.00	0.00	3.85	0.24	0.00	0.00
1.30	0.07	0.00	0.00	3.90	0.25	0.00	0.00
1.35	0.08	0.00	0.00	3.95	0.25	0.00	0.00
1.40	0.08	0.00	0.00	4.00	0.26	0.00	0.00
1.45	0.08	0.00	0.00	4.05	0.26	0.00	0.00
1.50	0.09	0.00	0.00	4.10	0.26	0.00	0.00
1.55	0.09	0.00	0.00	4.15	0.27	0.00	0.00
1.60	0.09	0.00	0.00	4.20	0.27	0.00	0.00
1.65	0.10	0.00	0.00	4.25	0.27	0.00	0.00
1.70	0.10	0.00	0.00	4.30	0.28	0.00	0.00
1.75	0.10	0.00	0.00	4.35	0.28	0.00	0.00
1.80	0.11	0.00	0.00	4.40	0.29	0.00	0.00
1.85	0.11	0.00	0.00	4.45	0.29	0.00	0.00
1.90	0.11	0.00	0.00	4.50	0.29	0.00	0.00
1.95	0.12	0.00	0.00	4.55	0.30	0.00	0.00
2.00	0.12	0.00	0.00	4.60	0.30	0.00	0.00
2.05	0.12	0.00	0.00	4.65	0.31	0.00	0.00
2.10	0.12	0.00	0.00	4.70	0.31	0.00	0.00
2.15	0.13	0.00	0.00	4.75	0.31	0.00	0.00
2.20	0.13	0.00	0.00	4.80	0.32	0.00	0.00
2.25	0.13	0.00	0.00	4.85	0.32	0.00	0.00
2.30	0.14	0.00	0.00	4.90	0.32	0.00	0.00
2.35	0.14	0.00	0.00	4.95	0.33	0.00	0.00
2.40	0.14	0.00	0.00	5.00	0.33	0.00	0.00
2.45	0.15	0.00	0.00	5.05	0.34	0.00	0.00
2.50	0.15	0.00	0.00	5.10	0.34	0.00	0.00
2.55	0.15	0.00	0.00	5.15	0.34	0.00	0.00

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.35	0.00	0.00	7.80	0.60	0.00	0.00
5.25	0.35	0.00	0.00	7.85	0.61	0.00	0.00
5.30	0.36	0.00	0.00	7.90	0.61	0.00	0.00
5.35	0.36	0.00	0.00	7.95	0.62	0.01	0.00
5.40	0.36	0.00	0.00	8.00	0.63	0.01	0.00
5.45	0.37	0.00	0.00	8.05	0.63	0.01	0.00
5.50	0.37	0.00	0.00	8.10	0.64	0.01	0.00
5.55	0.38	0.00	0.00	8.15	0.65	0.01	0.00
5.60	0.38	0.00	0.00	8.20	0.65	0.01	0.00
5.65	0.39	0.00	0.00	8.25	0.66	0.01	0.00
5.70	0.39	0.00	0.00	8.30	0.67	0.01	0.00
5.75	0.39	0.00	0.00	8.35	0.67	0.01	0.00
5.80	0.40	0.00	0.00	8.40	0.68	0.01	0.00
5.85	0.40	0.00	0.00	8.45	0.69	0.01	0.00
5.90	0.41	0.00	0.00	8.50	0.69	0.01	0.01
5.95	0.41	0.00	0.00	8.55	0.70	0.01	0.01
6.00	0.41	0.00	0.00	8.60	0.71	0.02	0.01
6.05	0.42	0.00	0.00	8.65	0.71	0.02	0.01
6.10	0.42	0.00	0.00	8.70	0.72	0.02	0.01
6.15	0.43	0.00	0.00	8.75	0.73	0.02	0.01
6.20	0.43	0.00	0.00	8.80	0.73	0.02	0.01
6.25	0.44	0.00	0.00	8.85	0.74	0.02	0.01
6.30	0.44	0.00	0.00	8.90	0.75	0.02	0.01
6.35	0.45	0.00	0.00	8.95	0.76	0.02	0.01
6.40	0.45	0.00	0.00	9.00	0.76	0.03	0.01
6.45	0.45	0.00	0.00	9.05	0.77	0.03	0.01
6.50	0.46	0.00	0.00	9.10	0.78	0.03	0.01
6.55	0.46	0.00	0.00	9.15	0.79	0.03	0.01
6.60	0.47	0.00	0.00	9.20	0.80	0.03	0.01
6.65	0.47	0.00	0.00	9.25	0.80	0.03	0.01
6.70	0.48	0.00	0.00	9.30	0.81	0.03	0.01
6.75	0.48	0.00	0.00	9.35	0.82	0.04	0.01
6.80	0.49	0.00	0.00	9.40	0.83	0.04	0.01
6.85	0.49	0.00	0.00	9.45	0.84	0.04	0.01
6.90	0.50	0.00	0.00	9.50	0.85	0.04	0.01
6.95	0.50	0.00	0.00	9.55	0.86	0.04	0.01
7.00	0.51	0.00	0.00	9.60	0.87	0.05	0.01
7.05	0.52	0.00	0.00	9.65	0.88	0.05	0.01
7.10	0.52	0.00	0.00	9.70	0.89	0.05	0.01
7.15	0.53	0.00	0.00	9.75	0.90	0.05	0.01
7.20	0.53	0.00	0.00	9.80	0.91	0.06	0.01
7.25	0.54	0.00	0.00	9.85	0.92	0.06	0.02
7.30	0.54	0.00	0.00	9.90	0.93	0.06	0.02
7.35	0.55	0.00	0.00	9.95	0.94	0.07	0.02
7.40	0.55	0.00	0.00	10.00	0.95	0.07	0.02
7.45	0.56	0.00	0.00	10.05	0.97	0.07	0.02
7.50	0.57	0.00	0.00	10.10	0.98	0.08	0.02
7.55	0.57	0.00	0.00	10.15	0.99	0.08	0.02
7.60	0.58	0.00	0.00	10.20	1.00	0.08	0.02
7.65	0.58	0.00	0.00	10.25	1.01	0.09	0.02
7.70	0.59	0.00	0.00	10.30	1.03	0.09	0.02
7.75	0.60	0.00	0.00	10.35	1.04	0.10	0.02

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.05	0.10	0.02	13.00	3.97	2.02	0.11
10.45	1.06	0.10	0.02	13.05	4.00	2.04	0.11
10.50	1.08	0.11	0.02	13.10	4.02	2.06	0.10
10.55	1.09	0.11	0.03	13.15	4.04	2.07	0.10
10.60	1.11	0.12	0.03	13.20	4.05	2.09	0.09
10.65	1.12	0.12	0.03	13.25	4.07	2.10	0.09
10.70	1.14	0.13	0.03	13.30	4.09	2.12	0.09
10.75	1.16	0.14	0.03	13.35	4.11	2.13	0.08
10.80	1.18	0.14	0.04	13.40	4.12	2.14	0.08
10.85	1.19	0.15	0.04	13.45	4.14	2.16	0.07
10.90	1.21	0.16	0.04	13.50	4.15	2.17	0.07
10.95	1.23	0.17	0.04	13.55	4.17	2.18	0.07
11.00	1.26	0.18	0.05	13.60	4.18	2.19	0.06
11.05	1.28	0.18	0.05	13.65	4.19	2.20	0.06
11.10	1.30	0.19	0.05	13.70	4.20	2.21	0.06
11.15	1.33	0.21	0.06	13.75	4.22	2.22	0.06
11.20	1.35	0.22	0.06	13.80	4.23	2.23	0.06
11.25	1.38	0.23	0.07	13.85	4.24	2.24	0.06
11.30	1.41	0.24	0.07	13.90	4.25	2.25	0.06
11.35	1.45	0.26	0.08	13.95	4.26	2.26	0.06
11.40	1.48	0.27	0.08	14.00	4.28	2.27	0.06
11.45	1.51	0.29	0.09	14.05	4.29	2.28	0.05
11.50	1.55	0.31	0.09	14.10	4.30	2.29	0.05
11.55	1.60	0.34	0.11	14.15	4.31	2.30	0.05
11.60	1.65	0.36	0.14	14.20	4.32	2.31	0.05
11.65	1.71	0.39	0.15	14.25	4.33	2.32	0.05
11.70	1.76	0.42	0.16	14.30	4.34	2.33	0.05
11.75	1.84	0.47	0.19	14.35	4.35	2.34	0.05
11.80	1.92	0.51	0.23	14.40	4.36	2.34	0.05
11.85	2.02	0.58	0.28	14.45	4.37	2.35	0.05
11.90	2.13	0.64	0.33	14.50	4.38	2.36	0.05
11.95	2.31	0.76	0.46	14.55	4.39	2.37	0.05
12.00	2.49	0.88	0.59	14.60	4.40	2.38	0.05
12.05	2.80	1.10	0.83	14.65	4.41	2.38	0.04
12.10	3.10	1.33	**1.08**	14.70	4.42	2.39	0.04
12.15	3.21	1.41	**0.91**	14.75	4.43	2.40	0.04
12.20	3.31	1.49	0.66	14.80	4.43	2.41	0.04
12.25	3.39	1.55	0.51	14.85	4.44	2.41	0.04
12.30	3.47	1.61	0.41	14.90	4.45	2.42	0.04
12.35	3.52	1.65	0.33	14.95	4.46	2.43	0.04
12.40	3.58	1.70	0.28	15.00	4.47	2.43	0.04
12.45	3.63	1.74	0.26	15.05	4.47	2.44	0.04
12.50	3.68	1.78	0.25	15.10	4.48	2.45	0.04
12.55	3.72	1.81	0.21	15.15	4.49	2.45	0.04
12.60	3.75	1.84	0.18	15.20	4.50	2.46	0.03
12.65	3.78	1.87	0.16	15.25	4.50	2.46	0.03
12.70	3.82	1.89	0.15	15.30	4.51	2.47	0.03
12.75	3.85	1.92	0.14	15.35	4.52	2.48	0.03
12.80	3.88	1.94	0.14	15.40	4.52	2.48	0.03
12.85	3.90	1.96	0.13	15.45	4.53	2.49	0.03
12.90	3.93	1.98	0.13	15.50	4.54	2.49	0.03
12.95	3.95	2.00	0.12	15.55	4.54	2.50	0.03

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	4.55	2.51	0.03	18.20	4.83	2.75	0.02
15.65	4.56	2.51	0.03	18.25	4.84	2.75	0.02
15.70	4.56	2.52	0.03	18.30	4.84	2.75	0.02
15.75	4.57	2.52	0.03	18.35	4.84	2.76	0.02
15.80	4.58	2.53	0.03	18.40	4.85	2.76	0.02
15.85	4.58	2.53	0.03	18.45	4.85	2.77	0.02
15.90	4.59	2.54	0.03	18.50	4.86	2.77	0.02
15.95	4.60	2.54	0.03	18.55	4.86	2.77	0.02
16.00	4.60	2.55	0.03	18.60	4.87	2.78	0.02
16.05	4.61	2.56	0.03	18.65	4.87	2.78	0.02
16.10	4.62	2.56	0.03	18.70	4.87	2.78	0.02
16.15	4.62	2.57	0.03	18.75	4.88	2.79	0.02
16.20	4.63	2.57	0.03	18.80	4.88	2.79	0.02
16.25	4.63	2.58	0.03	18.85	4.89	2.79	0.02
16.30	4.64	2.58	0.03	18.90	4.89	2.80	0.02
16.35	4.65	2.59	0.03	18.95	4.89	2.80	0.02
16.40	4.65	2.59	0.03	19.00	4.90	2.80	0.02
16.45	4.66	2.60	0.03	19.05	4.90	2.81	0.02
16.50	4.66	2.60	0.03	19.10	4.91	2.81	0.02
16.55	4.67	2.61	0.03	19.15	4.91	2.81	0.02
16.60	4.68	2.61	0.03	19.20	4.91	2.82	0.02
16.65	4.68	2.62	0.03	19.25	4.92	2.82	0.02
16.70	4.69	2.62	0.03	19.30	4.92	2.82	0.02
16.75	4.69	2.63	0.03	19.35	4.92	2.83	0.02
16.80	4.70	2.63	0.03	19.40	4.93	2.83	0.02
16.85	4.70	2.64	0.03	19.45	4.93	2.83	0.02
16.90	4.71	2.64	0.03	19.50	4.94	2.84	0.02
16.95	4.71	2.65	0.03	19.55	4.94	2.84	0.02
17.00	4.72	2.65	0.03	19.60	4.94	2.84	0.02
17.05	4.73	2.65	0.03	19.65	4.95	2.85	0.02
17.10	4.73	2.66	0.03	19.70	4.95	2.85	0.02
17.15	4.74	2.66	0.03	19.75	4.96	2.85	0.02
17.20	4.74	2.67	0.03	19.80	4.96	2.86	0.02
17.25	4.75	2.67	0.02	19.85	4.96	2.86	0.02
17.30	4.75	2.68	0.02	19.90	4.97	2.86	0.02
17.35	4.76	2.68	0.02	19.95	4.97	2.87	0.02
17.40	4.76	2.69	0.02	20.00	4.97	2.87	0.02
17.45	4.77	2.69	0.02	20.05	4.98	2.87	0.02
17.50	4.77	2.69	0.02	20.10	4.98	2.88	0.02
17.55	4.78	2.70	0.02	20.15	4.99	2.88	0.02
17.60	4.78	2.70	0.02	20.20	4.99	2.88	0.02
17.65	4.78	2.71	0.02	20.25	4.99	2.89	0.02
17.70	4.79	2.71	0.02	20.30	5.00	2.89	0.02
17.75	4.79	2.71	0.02	20.35	5.00	2.89	0.02
17.80	4.80	2.72	0.02	20.40	5.00	2.90	0.02
17.85	4.80	2.72	0.02	20.45	5.01	2.90	0.02
17.90	4.81	2.73	0.02	20.50	5.01	2.90	0.02
17.95	4.81	2.73	0.02	20.55	5.01	2.91	0.02
18.00	4.82	2.73	0.02	20.60	5.02	2.91	0.02
18.05	4.82	2.74	0.02	20.65	5.02	2.91	0.02
18.10	4.82	2.74	0.02	20.70	5.02	2.91	0.02
18.15	4.83	2.74	0.02	20.75	5.03	2.92	0.02

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.03	2.92	0.02	23.40	5.20	3.06	0.01
20.85	5.04	2.92	0.02	23.45	5.20	3.07	0.01
20.90	5.04	2.93	0.02	23.50	5.20	3.07	0.01
20.95	5.04	2.93	0.02	23.55	5.20	3.07	0.01
21.00	5.05	2.93	0.02	23.60	5.21	3.07	0.01
21.05	5.05	2.94	0.02	23.65	5.21	3.08	0.01
21.10	5.05	2.94	0.02	23.70	5.21	3.08	0.01
21.15	5.06	2.94	0.02	23.75	5.22	3.08	0.01
21.20	5.06	2.94	0.02	23.80	5.22	3.08	0.01
21.25	5.06	2.95	0.02	23.85	5.22	3.09	0.01
21.30	5.07	2.95	0.02	23.90	5.22	3.09	0.01
21.35	5.07	2.95	0.02	23.95	5.23	3.09	0.01
21.40	5.07	2.96	0.02	24.00	**5.23**	**3.09**	0.02
21.45	5.08	2.96	0.02				
21.50	5.08	2.96	0.02				
21.55	5.08	2.97	0.02				
21.60	5.09	2.97	0.02				
21.65	5.09	2.97	0.02				
21.70	5.09	2.97	0.02				
21.75	5.10	2.98	0.02				
21.80	5.10	2.98	0.02				
21.85	5.10	2.98	0.02				
21.90	5.11	2.98	0.02				
21.95	5.11	2.99	0.02				
22.00	5.11	2.99	0.02				
22.05	5.11	2.99	0.02				
22.10	5.12	3.00	0.02				
22.15	5.12	3.00	0.02				
22.20	5.12	3.00	0.02				
22.25	5.13	3.00	0.02				
22.30	5.13	3.01	0.02				
22.35	5.13	3.01	0.02				
22.40	5.14	3.01	0.02				
22.45	5.14	3.02	0.02				
22.50	5.14	3.02	0.02				
22.55	5.15	3.02	0.02				
22.60	5.15	3.02	0.02				
22.65	5.15	3.03	0.02				
22.70	5.16	3.03	0.01				
22.75	5.16	3.03	0.01				
22.80	5.16	3.03	0.01				
22.85	5.16	3.04	0.01				
22.90	5.17	3.04	0.01				
22.95	5.17	3.04	0.01				
23.00	5.17	3.04	0.01				
23.05	5.18	3.05	0.01				
23.10	5.18	3.05	0.01				
23.15	5.18	3.05	0.01				
23.20	5.18	3.05	0.01				
23.25	5.19	3.06	0.01				
23.30	5.19	3.06	0.01				
23.35	5.19	3.06	0.01				

Summary for Subcatchment EDA1B IMP: EDA1B IMP

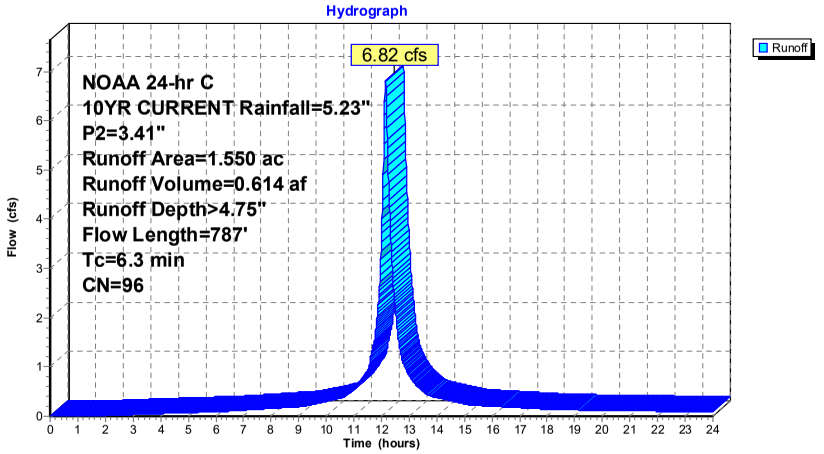
Runoff = 6.82 cfs @ 12.14 hrs, Volume= 0.614 af, Depth> 4.75"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR CURRENT Rainfall=5.23", P2=3.41"

	Area (ac)	CN	Description
	0.940	96	Gravel surface, HSG A
	0.310	96	Gravel surface, HSG D
*	0.190	98	Impervious vehicular
*	0.110	98	Impervious non vehicular
	1.550	96	Weighted Average
	1.250		80.65% Pervious Area
	0.300		19.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	100	0.0100	1.08		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
1.0	93	0.0100	1.50		**Shallow Concentrated Flow, Paved** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.9	93	0.0011	1.71	3.02	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
6.3	787	Total			

Subcatchment EDA1B IMP: EDA1B IMP



Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.16	0.01	0.03
0.05	0.00	0.00	0.00	2.65	0.16	0.01	0.03
0.10	0.01	0.00	0.00	2.70	0.16	0.01	0.03
0.15	0.01	0.00	0.00	2.75	0.17	0.01	0.03
0.20	0.01	0.00	0.00	2.80	0.17	0.02	0.03
0.25	0.01	0.00	0.00	2.85	0.17	0.02	0.03
0.30	0.02	0.00	0.00	2.90	0.18	0.02	0.03
0.35	0.02	0.00	0.00	2.95	0.18	0.02	0.03
0.40	0.02	0.00	0.00	3.00	0.18	0.02	0.03
0.45	0.03	0.00	0.00	3.05	0.19	0.02	0.04
0.50	0.03	0.00	0.00	3.10	0.19	0.02	0.04
0.55	0.03	0.00	0.00	3.15	0.19	0.02	0.04
0.60	0.03	0.00	0.00	3.20	0.20	0.02	0.04
0.65	0.04	0.00	0.00	3.25	0.20	0.03	0.04
0.70	0.04	0.00	0.00	3.30	0.21	0.03	0.04
0.75	0.04	0.00	0.00	3.35	0.21	0.03	0.04
0.80	0.05	0.00	0.00	3.40	0.21	0.03	0.04
0.85	0.05	0.00	0.00	3.45	0.22	0.03	0.04
0.90	0.05	0.00	0.00	3.50	0.22	0.03	0.05
0.95	0.05	0.00	0.00	3.55	0.22	0.04	0.05
1.00	0.06	0.00	0.00	3.60	0.23	0.04	0.05
1.05	0.06	0.00	0.00	3.65	0.23	0.04	0.05
1.10	0.06	0.00	0.00	3.70	0.23	0.04	0.05
1.15	0.07	0.00	0.00	3.75	0.24	0.04	0.05
1.20	0.07	0.00	0.00	3.80	0.24	0.04	0.05
1.25	0.07	0.00	0.00	3.85	0.24	0.05	0.05
1.30	0.07	0.00	0.00	3.90	0.25	0.05	0.05
1.35	0.08	0.00	0.00	3.95	0.25	0.05	0.05
1.40	0.08	0.00	0.00	4.00	0.26	0.05	0.05
1.45	0.08	0.00	0.00	4.05	0.26	0.05	0.06
1.50	0.09	0.00	0.00	4.10	0.26	0.05	0.06
1.55	0.09	0.00	0.00	4.15	0.27	0.06	0.06
1.60	0.09	0.00	0.00	4.20	0.27	0.06	0.06
1.65	0.10	0.00	0.00	4.25	0.27	0.06	0.06
1.70	0.10	0.00	0.00	4.30	0.28	0.06	0.06
1.75	0.10	0.00	0.00	4.35	0.28	0.06	0.06
1.80	0.11	0.00	0.01	4.40	0.29	0.07	0.06
1.85	0.11	0.00	0.01	4.45	0.29	0.07	0.06
1.90	0.11	0.00	0.01	4.50	0.29	0.07	0.06
1.95	0.12	0.00	0.01	4.55	0.30	0.07	0.06
2.00	0.12	0.00	0.01	4.60	0.30	0.07	0.07
2.05	0.12	0.00	0.01	4.65	0.31	0.08	0.07
2.10	0.12	0.00	0.01	4.70	0.31	0.08	0.07
2.15	0.13	0.00	0.01	4.75	0.31	0.08	0.07
2.20	0.13	0.00	0.02	4.80	0.32	0.08	0.07
2.25	0.13	0.01	0.02	4.85	0.32	0.09	0.07
2.30	0.14	0.01	0.02	4.90	0.32	0.09	0.07
2.35	0.14	0.01	0.02	4.95	0.33	0.09	0.07
2.40	0.14	0.01	0.02	5.00	0.33	0.09	0.07
2.45	0.15	0.01	0.02	5.05	0.34	0.10	0.07
2.50	0.15	0.01	0.02	5.10	0.34	0.10	0.07
2.55	0.15	0.01	0.02	5.15	0.34	0.10	0.08

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.35	0.10	0.08	7.80	0.60	0.29	0.15
5.25	0.35	0.11	0.08	7.85	0.61	0.29	0.15
5.30	0.36	0.11	0.08	7.90	0.61	0.30	0.15
5.35	0.36	0.11	0.08	7.95	0.62	0.30	0.15
5.40	0.36	0.11	0.08	8.00	0.63	0.31	0.16
5.45	0.37	0.12	0.08	8.05	0.63	0.31	0.16
5.50	0.37	0.12	0.08	8.10	0.64	0.32	0.16
5.55	0.38	0.12	0.08	8.15	0.65	0.32	0.16
5.60	0.38	0.12	0.08	8.20	0.65	0.33	0.16
5.65	0.39	0.13	0.08	8.25	0.66	0.33	0.16
5.70	0.39	0.13	0.08	8.30	0.67	0.34	0.17
5.75	0.39	0.13	0.08	8.35	0.67	0.34	0.17
5.80	0.40	0.14	0.09	8.40	0.68	0.35	0.17
5.85	0.40	0.14	0.09	8.45	0.69	0.36	0.17
5.90	0.41	0.14	0.09	8.50	0.69	0.36	0.17
5.95	0.41	0.14	0.09	8.55	0.70	0.37	0.18
6.00	0.41	0.15	0.09	8.60	0.71	0.37	0.18
6.05	0.42	0.15	0.09	8.65	0.71	0.38	0.18
6.10	0.42	0.15	0.09	8.70	0.72	0.39	0.18
6.15	0.43	0.16	0.09	8.75	0.73	0.39	0.18
6.20	0.43	0.16	0.09	8.80	0.73	0.40	0.18
6.25	0.44	0.16	0.09	8.85	0.74	0.40	0.19
6.30	0.44	0.17	0.10	8.90	0.75	0.41	0.19
6.35	0.45	0.17	0.10	8.95	0.76	0.42	0.19
6.40	0.45	0.17	0.10	9.00	0.76	0.42	0.19
6.45	0.45	0.18	0.10	9.05	0.77	0.43	0.19
6.50	0.46	0.18	0.10	9.10	0.78	0.44	0.20
6.55	0.46	0.18	0.10	9.15	0.79	0.44	0.20
6.60	0.47	0.19	0.11	9.20	0.80	0.45	0.21
6.65	0.47	0.19	0.11	9.25	0.80	0.46	0.21
6.70	0.48	0.19	0.11	9.30	0.81	0.46	0.22
6.75	0.48	0.20	0.11	9.35	0.82	0.47	0.22
6.80	0.49	0.20	0.11	9.40	0.83	0.48	0.23
6.85	0.49	0.20	0.11	9.45	0.84	0.49	0.23
6.90	0.50	0.21	0.12	9.50	0.85	0.50	0.24
6.95	0.50	0.21	0.12	9.55	0.86	0.50	0.25
7.00	0.51	0.22	0.12	9.60	0.87	0.51	0.25
7.05	0.52	0.22	0.12	9.65	0.88	0.52	0.26
7.10	0.52	0.22	0.12	9.70	0.89	0.53	0.26
7.15	0.53	0.23	0.12	9.75	0.90	0.54	0.27
7.20	0.53	0.23	0.13	9.80	0.91	0.55	0.28
7.25	0.54	0.24	0.13	9.85	0.92	0.56	0.28
7.30	0.54	0.24	0.13	9.90	0.93	0.57	0.29
7.35	0.55	0.25	0.13	9.95	0.94	0.58	0.29
7.40	0.55	0.25	0.13	10.00	0.95	0.59	0.30
7.45	0.56	0.25	0.14	10.05	0.97	0.60	0.31
7.50	0.57	0.26	0.14	10.10	0.98	0.61	0.31
7.55	0.57	0.26	0.14	10.15	0.99	0.62	0.32
7.60	0.58	0.27	0.14	10.20	1.00	0.63	0.33
7.65	0.58	0.27	0.14	10.25	1.01	0.64	0.33
7.70	0.59	0.28	0.14	10.30	1.03	0.65	0.34
7.75	0.60	0.28	0.15	10.35	1.04	0.67	0.34

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.05	0.68	0.35	13.00	3.97	3.52	0.83
10.45	1.06	0.69	0.36	13.05	4.00	3.54	0.79
10.50	1.08	0.70	0.36	13.10	4.02	3.56	0.74
10.55	1.09	0.71	0.37	13.15	4.04	3.58	0.70
10.60	1.11	0.73	0.39	13.20	4.05	3.59	0.66
10.65	1.12	0.74	0.40	13.25	4.07	3.61	0.64
10.70	1.14	0.76	0.42	13.30	4.09	3.63	0.61
10.75	1.16	0.77	0.44	13.35	4.11	3.65	0.58
10.80	1.18	0.79	0.46	13.40	4.12	3.66	0.56
10.85	1.19	0.81	0.48	13.45	4.14	3.68	0.53
10.90	1.21	0.83	0.51	13.50	4.15	3.69	0.51
10.95	1.23	0.85	0.53	13.55	4.17	3.70	0.49
11.00	1.26	0.86	0.55	13.60	4.18	3.72	0.46
11.05	1.28	0.89	0.58	13.65	4.19	3.73	0.44
11.10	1.30	0.91	0.61	13.70	4.20	3.74	0.43
11.15	1.33	0.93	0.64	13.75	4.22	3.75	0.41
11.20	1.35	0.96	0.69	13.80	4.23	3.77	0.40
11.25	1.38	0.99	0.72	13.85	4.24	3.78	0.40
11.30	1.41	1.01	0.77	13.90	4.25	3.79	0.39
11.35	1.45	1.04	0.81	13.95	4.26	3.80	0.38
11.40	1.48	1.07	0.85	14.00	4.28	3.81	0.37
11.45	1.51	1.11	0.89	14.05	4.29	3.83	0.37
11.50	1.55	1.14	0.93	14.10	4.30	3.84	0.36
11.55	1.60	1.19	1.00	14.15	4.31	3.85	0.36
11.60	1.65	1.24	1.18	14.20	4.32	3.86	0.35
11.65	1.71	1.29	1.32	14.25	4.33	3.87	0.34
11.70	1.76	1.35	1.44	14.30	4.34	3.88	0.34
11.75	1.84	1.42	1.57	14.35	4.35	3.89	0.33
11.80	1.92	1.49	1.80	14.40	4.36	3.90	0.33
11.85	2.02	1.59	2.04	14.45	4.37	3.91	0.32
11.90	2.13	1.70	2.41	14.50	4.38	3.92	0.31
11.95	2.31	1.88	2.86	14.55	4.39	3.93	0.31
12.00	2.49	2.05	3.71	14.60	4.40	3.94	0.30
12.05	2.80	2.35	4.64	14.65	4.41	3.95	0.30
12.10	3.10	2.65	**6.12**	14.70	4.42	3.95	0.29
12.15	3.21	2.76	**6.79**	14.75	4.43	3.96	0.28
12.20	3.31	2.86	5.84	14.80	4.43	3.97	0.28
12.25	3.39	2.94	4.92	14.85	4.44	3.98	0.27
12.30	3.47	3.01	4.10	14.90	4.45	3.99	0.27
12.35	3.52	3.07	3.47	14.95	4.46	3.99	0.26
12.40	3.58	3.12	2.90	15.00	4.47	4.00	0.25
12.45	3.63	3.18	2.47	15.05	4.47	4.01	0.25
12.50	3.68	3.23	2.16	15.10	4.48	4.02	0.24
12.55	3.72	3.26	1.91	15.15	4.49	4.02	0.24
12.60	3.75	3.30	1.63	15.20	4.50	4.03	0.23
12.65	3.78	3.33	1.42	15.25	4.50	4.04	0.23
12.70	3.82	3.36	1.26	15.30	4.51	4.05	0.23
12.75	3.85	3.39	1.15	15.35	4.52	4.05	0.22
12.80	3.88	3.42	1.06	15.40	4.52	4.06	0.22
12.85	3.90	3.44	0.99	15.45	4.53	4.07	0.22
12.90	3.93	3.47	0.93	15.50	4.54	4.07	0.22
12.95	3.95	3.49	0.88	15.55	4.54	4.08	0.22

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	4.55	4.09	0.21	18.20	4.83	4.37	0.13
15.65	4.56	4.09	0.21	18.25	4.84	4.37	0.13
15.70	4.56	4.10	0.21	18.30	4.84	4.37	0.13
15.75	4.57	4.11	0.21	18.35	4.84	4.38	0.13
15.80	4.58	4.11	0.21	18.40	4.85	4.38	0.13
15.85	4.58	4.12	0.21	18.45	4.85	4.39	0.13
15.90	4.59	4.13	0.21	18.50	4.86	4.39	0.13
15.95	4.60	4.13	0.20	18.55	4.86	4.39	0.13
16.00	4.60	4.14	0.20	18.60	4.87	4.40	0.13
16.05	4.61	4.14	0.20	18.65	4.87	4.40	0.13
16.10	4.62	4.15	0.20	18.70	4.87	4.41	0.13
16.15	4.62	4.16	0.20	18.75	4.88	4.41	0.13
16.20	4.63	4.16	0.20	18.80	4.88	4.41	0.13
16.25	4.63	4.17	0.19	18.85	4.89	4.42	0.13
16.30	4.64	4.18	0.19	18.90	4.89	4.42	0.13
16.35	4.65	4.18	0.19	18.95	4.89	4.43	0.12
16.40	4.65	4.19	0.19	19.00	4.90	4.43	0.12
16.45	4.66	4.19	0.19	19.05	4.90	4.43	0.12
16.50	4.66	4.20	0.19	19.10	4.91	4.44	0.12
16.55	4.67	4.20	0.18	19.15	4.91	4.44	0.12
16.60	4.68	4.21	0.18	19.20	4.91	4.45	0.12
16.65	4.68	4.22	0.18	19.25	4.92	4.45	0.12
16.70	4.69	4.22	0.18	19.30	4.92	4.45	0.12
16.75	4.69	4.23	0.18	19.35	4.92	4.46	0.12
16.80	4.70	4.23	0.18	19.40	4.93	4.46	0.12
16.85	4.70	4.24	0.17	19.45	4.93	4.47	0.12
16.90	4.71	4.24	0.17	19.50	4.94	4.47	0.12
16.95	4.71	4.25	0.17	19.55	4.94	4.47	0.12
17.00	4.72	4.25	0.17	19.60	4.94	4.48	0.12
17.05	4.73	4.26	0.17	19.65	4.95	4.48	0.12
17.10	4.73	4.26	0.17	19.70	4.95	4.48	0.12
17.15	4.74	4.27	0.17	19.75	4.96	4.49	0.12
17.20	4.74	4.27	0.16	19.80	4.96	4.49	0.12
17.25	4.75	4.28	0.16	19.85	4.96	4.50	0.12
17.30	4.75	4.28	0.16	19.90	4.97	4.50	0.12
17.35	4.76	4.29	0.16	19.95	4.97	4.50	0.12
17.40	4.76	4.29	0.16	20.00	4.97	4.51	0.12
17.45	4.77	4.30	0.16	20.05	4.98	4.51	0.12
17.50	4.77	4.30	0.15	20.10	4.98	4.51	0.12
17.55	4.78	4.31	0.15	20.15	4.99	4.52	0.12
17.60	4.78	4.31	0.15	20.20	4.99	4.52	0.11
17.65	4.78	4.32	0.15	20.25	4.99	4.52	0.11
17.70	4.79	4.32	0.15	20.30	5.00	4.53	0.11
17.75	4.79	4.33	0.15	20.35	5.00	4.53	0.11
17.80	4.80	4.33	0.14	20.40	5.00	4.54	0.11
17.85	4.80	4.34	0.14	20.45	5.01	4.54	0.11
17.90	4.81	4.34	0.14	20.50	5.01	4.54	0.11
17.95	4.81	4.34	0.14	20.55	5.01	4.55	0.11
18.00	4.82	4.35	0.14	20.60	5.02	4.55	0.11
18.05	4.82	4.35	0.14	20.65	5.02	4.55	0.11
18.10	4.82	4.36	0.13	20.70	5.02	4.56	0.11
18.15	4.83	4.36	0.13	20.75	5.03	4.56	0.11

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.03	4.56	0.11	23.40	5.20	4.73	0.09
20.85	5.04	4.57	0.11	23.45	5.20	4.73	0.09
20.90	5.04	4.57	0.11	23.50	5.20	4.73	0.09
20.95	5.04	4.57	0.11	23.55	5.20	4.74	0.09
21.00	5.05	4.58	0.11	23.60	5.21	4.74	0.09
21.05	5.05	4.58	0.11	23.65	5.21	4.74	0.09
21.10	5.05	4.58	0.11	23.70	5.21	4.74	0.09
21.15	5.06	4.59	0.11	23.75	5.22	4.75	0.09
21.20	5.06	4.59	0.11	23.80	5.22	4.75	0.09
21.25	5.06	4.59	0.11	23.85	5.22	4.75	0.09
21.30	5.07	4.60	0.11	23.90	5.22	4.75	0.08
21.35	5.07	4.60	0.11	23.95	5.23	4.76	0.09
21.40	5.07	4.60	0.11	24.00	**5.23**	**4.76**	0.09
21.45	5.08	4.61	0.10				
21.50	5.08	4.61	0.10				
21.55	5.08	4.61	0.10				
21.60	5.09	4.62	0.10				
21.65	5.09	4.62	0.10				
21.70	5.09	4.62	0.10				
21.75	5.10	4.63	0.10				
21.80	5.10	4.63	0.10				
21.85	5.10	4.63	0.10				
21.90	5.11	4.64	0.10				
21.95	5.11	4.64	0.10				
22.00	5.11	4.64	0.10				
22.05	5.11	4.65	0.10				
22.10	5.12	4.65	0.10				
22.15	5.12	4.65	0.10				
22.20	5.12	4.66	0.10				
22.25	5.13	4.66	0.10				
22.30	5.13	4.66	0.10				
22.35	5.13	4.67	0.10				
22.40	5.14	4.67	0.10				
22.45	5.14	4.67	0.10				
22.50	5.14	4.67	0.10				
22.55	5.15	4.68	0.10				
22.60	5.15	4.68	0.10				
22.65	5.15	4.68	0.10				
22.70	5.16	4.69	0.09				
22.75	5.16	4.69	0.09				
22.80	5.16	4.69	0.09				
22.85	5.16	4.70	0.09				
22.90	5.17	4.70	0.09				
22.95	5.17	4.70	0.09				
23.00	5.17	4.70	0.09				
23.05	5.18	4.71	0.09				
23.10	5.18	4.71	0.09				
23.15	5.18	4.71	0.09				
23.20	5.18	4.72	0.09				
23.25	5.19	4.72	0.09				
23.30	5.19	4.72	0.09				
23.35	5.19	4.72	0.09				

Summary for Subcatchment EDA2 IMP: EDA2 IMP

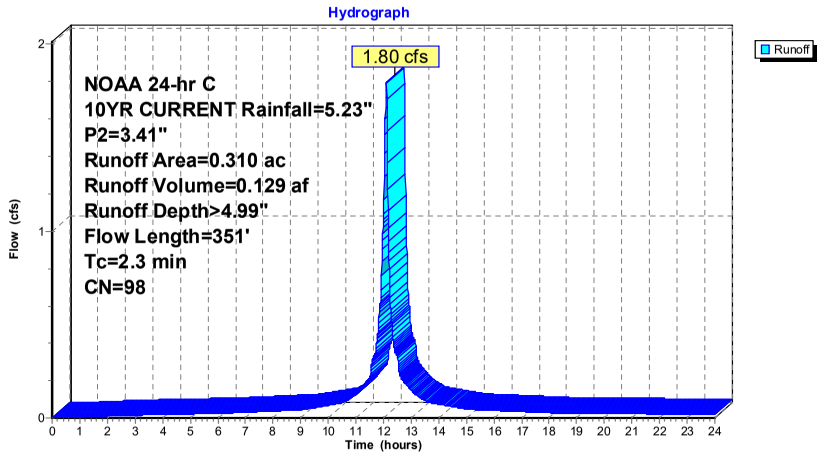
Runoff = 1.80 cfs @ 12.11 hrs, Volume= 0.129 af, Depth> 4.99"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR CURRENT Rainfall=5.23", P2=3.41"

	Area (ac)	CN	Description
*	0.310	98	Impervious vehicular
	0.310		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0180	1.36		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
1.1	251	0.0360	3.85		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
2.3	351	Total			

Subcatchment EDA2 IMP: EDA2 IMP



Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.16	0.04	0.01
0.05	0.00	0.00	0.00	2.65	0.16	0.04	0.01
0.10	0.01	0.00	0.00	2.70	0.16	0.05	0.01
0.15	0.01	0.00	0.00	2.75	0.17	0.05	0.01
0.20	0.01	0.00	0.00	2.80	0.17	0.05	0.01
0.25	0.01	0.00	0.00	2.85	0.17	0.05	0.01
0.30	0.02	0.00	0.00	2.90	0.18	0.05	0.01
0.35	0.02	0.00	0.00	2.95	0.18	0.06	0.01
0.40	0.02	0.00	0.00	3.00	0.18	0.06	0.01
0.45	0.03	0.00	0.00	3.05	0.19	0.06	0.01
0.50	0.03	0.00	0.00	3.10	0.19	0.06	0.01
0.55	0.03	0.00	0.00	3.15	0.19	0.07	0.01
0.60	0.03	0.00	0.00	3.20	0.20	0.07	0.01
0.65	0.04	0.00	0.00	3.25	0.20	0.07	0.01
0.70	0.04	0.00	0.00	3.30	0.21	0.07	0.02
0.75	0.04	0.00	0.00	3.35	0.21	0.08	0.02
0.80	0.05	0.00	0.00	3.40	0.21	0.08	0.02
0.85	0.05	0.00	0.00	3.45	0.22	0.08	0.02
0.90	0.05	0.00	0.00	3.50	0.22	0.08	0.02
0.95	0.05	0.00	0.00	3.55	0.22	0.09	0.02
1.00	0.06	0.00	0.00	3.60	0.23	0.09	0.02
1.05	0.06	0.00	0.00	3.65	0.23	0.09	0.02
1.10	0.06	0.00	0.00	3.70	0.23	0.09	0.02
1.15	0.07	0.00	0.00	3.75	0.24	0.10	0.02
1.20	0.07	0.00	0.00	3.80	0.24	0.10	0.02
1.25	0.07	0.00	0.00	3.85	0.24	0.10	0.02
1.30	0.07	0.00	0.00	3.90	0.25	0.10	0.02
1.35	0.08	0.01	0.00	3.95	0.25	0.11	0.02
1.40	0.08	0.01	0.01	4.00	0.26	0.11	0.02
1.45	0.08	0.01	0.01	4.05	0.26	0.11	0.02
1.50	0.09	0.01	0.01	4.10	0.26	0.12	0.02
1.55	0.09	0.01	0.01	4.15	0.27	0.12	0.02
1.60	0.09	0.01	0.01	4.20	0.27	0.12	0.02
1.65	0.10	0.01	0.01	4.25	0.27	0.12	0.02
1.70	0.10	0.01	0.01	4.30	0.28	0.13	0.02
1.75	0.10	0.01	0.01	4.35	0.28	0.13	0.02
1.80	0.11	0.02	0.01	4.40	0.29	0.13	0.02
1.85	0.11	0.02	0.01	4.45	0.29	0.14	0.02
1.90	0.11	0.02	0.01	4.50	0.29	0.14	0.02
1.95	0.12	0.02	0.01	4.55	0.30	0.14	0.02
2.00	0.12	0.02	0.01	4.60	0.30	0.15	0.02
2.05	0.12	0.02	0.01	4.65	0.31	0.15	0.02
2.10	0.12	0.02	0.01	4.70	0.31	0.15	0.02
2.15	0.13	0.03	0.01	4.75	0.31	0.16	0.02
2.20	0.13	0.03	0.01	4.80	0.32	0.16	0.02
2.25	0.13	0.03	0.01	4.85	0.32	0.16	0.02
2.30	0.14	0.03	0.01	4.90	0.32	0.17	0.02
2.35	0.14	0.03	0.01	4.95	0.33	0.17	0.02
2.40	0.14	0.03	0.01	5.00	0.33	0.17	0.02
2.45	0.15	0.04	0.01	5.05	0.34	0.18	0.02
2.50	0.15	0.04	0.01	5.10	0.34	0.18	0.02
2.55	0.15	0.04	0.01	5.15	0.34	0.18	0.02

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.35	0.19	0.02	7.80	0.60	0.41	0.04
5.25	0.35	0.19	0.02	7.85	0.61	0.42	0.04
5.30	0.36	0.19	0.02	7.90	0.61	0.42	0.04
5.35	0.36	0.20	0.02	7.95	0.62	0.43	0.04
5.40	0.36	0.20	0.02	8.00	0.63	0.43	0.04
5.45	0.37	0.20	0.02	8.05	0.63	0.44	0.04
5.50	0.37	0.21	0.02	8.10	0.64	0.45	0.04
5.55	0.38	0.21	0.02	8.15	0.65	0.45	0.04
5.60	0.38	0.21	0.02	8.20	0.65	0.46	0.04
5.65	0.39	0.22	0.02	8.25	0.66	0.46	0.04
5.70	0.39	0.22	0.02	8.30	0.67	0.47	0.04
5.75	0.39	0.22	0.02	8.35	0.67	0.48	0.04
5.80	0.40	0.23	0.02	8.40	0.68	0.48	0.04
5.85	0.40	0.23	0.02	8.45	0.69	0.49	0.04
5.90	0.41	0.23	0.02	8.50	0.69	0.50	0.04
5.95	0.41	0.24	0.02	8.55	0.70	0.50	0.04
6.00	0.41	0.24	0.02	8.60	0.71	0.51	0.04
6.05	0.42	0.25	0.02	8.65	0.71	0.52	0.04
6.10	0.42	0.25	0.02	8.70	0.72	0.52	0.04
6.15	0.43	0.25	0.02	8.75	0.73	0.53	0.04
6.20	0.43	0.26	0.02	8.80	0.73	0.54	0.04
6.25	0.44	0.26	0.02	8.85	0.74	0.54	0.04
6.30	0.44	0.27	0.02	8.90	0.75	0.55	0.04
6.35	0.45	0.27	0.03	8.95	0.76	0.56	0.04
6.40	0.45	0.27	0.03	9.00	0.76	0.56	0.04
6.45	0.45	0.28	0.03	9.05	0.77	0.57	0.04
6.50	0.46	0.28	0.03	9.10	0.78	0.58	0.05
6.55	0.46	0.29	0.03	9.15	0.79	0.59	0.05
6.60	0.47	0.29	0.03	9.20	0.80	0.59	0.05
6.65	0.47	0.29	0.03	9.25	0.80	0.60	0.05
6.70	0.48	0.30	0.03	9.30	0.81	0.61	0.05
6.75	0.48	0.30	0.03	9.35	0.82	0.62	0.05
6.80	0.49	0.31	0.03	9.40	0.83	0.63	0.05
6.85	0.49	0.31	0.03	9.45	0.84	0.64	0.05
6.90	0.50	0.32	0.03	9.50	0.85	0.65	0.06
6.95	0.50	0.32	0.03	9.55	0.86	0.65	0.06
7.00	0.51	0.33	0.03	9.60	0.87	0.66	0.06
7.05	0.52	0.33	0.03	9.65	0.88	0.67	0.06
7.10	0.52	0.34	0.03	9.70	0.89	0.68	0.06
7.15	0.53	0.34	0.03	9.75	0.90	0.69	0.06
7.20	0.53	0.35	0.03	9.80	0.91	0.70	0.06
7.25	0.54	0.35	0.03	9.85	0.92	0.71	0.06
7.30	0.54	0.36	0.03	9.90	0.93	0.72	0.07
7.35	0.55	0.36	0.03	9.95	0.94	0.74	0.07
7.40	0.55	0.37	0.03	10.00	0.95	0.75	0.07
7.45	0.56	0.37	0.03	10.05	0.97	0.76	0.07
7.50	0.57	0.38	0.03	10.10	0.98	0.77	0.07
7.55	0.57	0.38	0.03	10.15	0.99	0.78	0.07
7.60	0.58	0.39	0.03	10.20	1.00	0.79	0.07
7.65	0.58	0.39	0.03	10.25	1.01	0.80	0.07
7.70	0.59	0.40	0.03	10.30	1.03	0.82	0.07
7.75	0.60	0.41	0.03	10.35	1.04	0.83	0.08

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.05	0.84	0.08	13.00	3.97	3.74	0.15
10.45	1.06	0.85	0.08	13.05	4.00	3.76	0.14
10.50	1.08	0.87	0.08	13.10	4.02	3.78	0.13
10.55	1.09	0.88	0.09	13.15	4.04	3.80	0.12
10.60	1.11	0.90	0.09	13.20	4.05	3.82	0.12
10.65	1.12	0.91	0.09	13.25	4.07	3.84	0.12
10.70	1.14	0.93	0.10	13.30	4.09	3.86	0.11
10.75	1.16	0.94	0.10	13.35	4.11	3.87	0.11
10.80	1.18	0.96	0.11	13.40	4.12	3.89	0.10
10.85	1.19	0.98	0.11	13.45	4.14	3.90	0.10
10.90	1.21	1.00	0.12	13.50	4.15	3.92	0.09
10.95	1.23	1.02	0.12	13.55	4.17	3.93	0.09
11.00	1.26	1.04	0.13	13.60	4.18	3.94	0.08
11.05	1.28	1.06	0.14	13.65	4.19	3.96	0.08
11.10	1.30	1.09	0.14	13.70	4.20	3.97	0.08
11.15	1.33	1.11	0.15	13.75	4.22	3.98	0.08
11.20	1.35	1.14	0.16	13.80	4.23	3.99	0.08
11.25	1.38	1.17	0.17	13.85	4.24	4.01	0.08
11.30	1.41	1.19	0.18	13.90	4.25	4.02	0.08
11.35	1.45	1.23	0.19	13.95	4.26	4.03	0.07
11.40	1.48	1.26	0.19	14.00	4.28	4.04	0.07
11.45	1.51	1.29	0.20	14.05	4.29	4.05	0.07
11.50	1.55	1.32	0.21	14.10	4.30	4.06	0.07
11.55	1.60	1.38	0.27	14.15	4.31	4.07	0.07
11.60	1.65	1.43	0.31	14.20	4.32	4.09	0.07
11.65	1.71	1.48	0.33	14.25	4.33	4.10	0.07
11.70	1.76	1.54	0.34	14.30	4.34	4.11	0.07
11.75	1.84	1.61	0.41	14.35	4.35	4.12	0.06
11.80	1.92	1.69	0.45	14.40	4.36	4.13	0.06
11.85	2.02	1.80	0.56	14.45	4.37	4.14	0.06
11.90	2.13	1.90	0.63	14.50	4.38	4.15	0.06
11.95	2.31	2.08	0.90	14.55	4.39	4.15	0.06
12.00	2.49	2.26	1.06	14.60	4.40	4.16	0.06
12.05	2.80	2.57	1.52	14.65	4.41	4.17	0.06
12.10	3.10	2.87	**1.78**	14.70	4.42	4.18	0.06
12.15	3.21	2.98	**1.22**	14.75	4.43	4.19	0.05
12.20	3.31	3.08	0.84	14.80	4.43	4.20	0.05
12.25	3.39	3.16	0.61	14.85	4.44	4.21	0.05
12.30	3.47	3.23	0.51	14.90	4.45	4.21	0.05
12.35	3.52	3.29	0.41	14.95	4.46	4.22	0.05
12.40	3.58	3.35	0.37	15.00	4.47	4.23	0.05
12.45	3.63	3.40	0.34	15.05	4.47	4.24	0.05
12.50	3.68	3.45	0.33	15.10	4.48	4.24	0.05
12.55	3.72	3.48	0.27	15.15	4.49	4.25	0.05
12.60	3.75	3.52	0.23	15.20	4.50	4.26	0.05
12.65	3.78	3.55	0.21	15.25	4.50	4.27	0.04
12.70	3.82	3.58	0.20	15.30	4.51	4.27	0.04
12.75	3.85	3.61	0.19	15.35	4.52	4.28	0.04
12.80	3.88	3.64	0.18	15.40	4.52	4.29	0.04
12.85	3.90	3.67	0.17	15.45	4.53	4.29	0.04
12.90	3.93	3.69	0.17	15.50	4.54	4.30	0.04
12.95	3.95	3.72	0.16	15.55	4.54	4.31	0.04

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	4.55	4.31	0.04	18.20	4.83	4.60	0.03
15.65	4.56	4.32	0.04	18.25	4.84	4.60	0.03
15.70	4.56	4.33	0.04	18.30	4.84	4.60	0.03
15.75	4.57	4.33	0.04	18.35	4.84	4.61	0.03
15.80	4.58	4.34	0.04	18.40	4.85	4.61	0.03
15.85	4.58	4.35	0.04	18.45	4.85	4.62	0.03
15.90	4.59	4.35	0.04	18.50	4.86	4.62	0.03
15.95	4.60	4.36	0.04	18.55	4.86	4.62	0.03
16.00	4.60	4.37	0.04	18.60	4.87	4.63	0.03
16.05	4.61	4.37	0.04	18.65	4.87	4.63	0.03
16.10	4.62	4.38	0.04	18.70	4.87	4.64	0.03
16.15	4.62	4.39	0.04	18.75	4.88	4.64	0.03
16.20	4.63	4.39	0.04	18.80	4.88	4.64	0.03
16.25	4.63	4.40	0.04	18.85	4.89	4.65	0.03
16.30	4.64	4.40	0.04	18.90	4.89	4.65	0.02
16.35	4.65	4.41	0.04	18.95	4.89	4.66	0.02
16.40	4.65	4.42	0.04	19.00	4.90	4.66	0.02
16.45	4.66	4.42	0.04	19.05	4.90	4.66	0.02
16.50	4.66	4.43	0.04	19.10	4.91	4.67	0.02
16.55	4.67	4.43	0.04	19.15	4.91	4.67	0.02
16.60	4.68	4.44	0.04	19.20	4.91	4.68	0.02
16.65	4.68	4.45	0.04	19.25	4.92	4.68	0.02
16.70	4.69	4.45	0.04	19.30	4.92	4.68	0.02
16.75	4.69	4.46	0.04	19.35	4.92	4.69	0.02
16.80	4.70	4.46	0.03	19.40	4.93	4.69	0.02
16.85	4.70	4.47	0.03	19.45	4.93	4.70	0.02
16.90	4.71	4.47	0.03	19.50	4.94	4.70	0.02
16.95	4.71	4.48	0.03	19.55	4.94	4.70	0.02
17.00	4.72	4.48	0.03	19.60	4.94	4.71	0.02
17.05	4.73	4.49	0.03	19.65	4.95	4.71	0.02
17.10	4.73	4.49	0.03	19.70	4.95	4.71	0.02
17.15	4.74	4.50	0.03	19.75	4.96	4.72	0.02
17.20	4.74	4.50	0.03	19.80	4.96	4.72	0.02
17.25	4.75	4.51	0.03	19.85	4.96	4.73	0.02
17.30	4.75	4.51	0.03	19.90	4.97	4.73	0.02
17.35	4.76	4.52	0.03	19.95	4.97	4.73	0.02
17.40	4.76	4.52	0.03	20.00	4.97	4.74	0.02
17.45	4.77	4.53	0.03	20.05	4.98	4.74	0.02
17.50	4.77	4.53	0.03	20.10	4.98	4.74	0.02
17.55	4.78	4.54	0.03	20.15	4.99	4.75	0.02
17.60	4.78	4.54	0.03	20.20	4.99	4.75	0.02
17.65	4.78	4.55	0.03	20.25	4.99	4.76	0.02
17.70	4.79	4.55	0.03	20.30	5.00	4.76	0.02
17.75	4.79	4.56	0.03	20.35	5.00	4.76	0.02
17.80	4.80	4.56	0.03	20.40	5.00	4.77	0.02
17.85	4.80	4.57	0.03	20.45	5.01	4.77	0.02
17.90	4.81	4.57	0.03	20.50	5.01	4.77	0.02
17.95	4.81	4.57	0.03	20.55	5.01	4.78	0.02
18.00	4.82	4.58	0.03	20.60	5.02	4.78	0.02
18.05	4.82	4.58	0.03	20.65	5.02	4.78	0.02
18.10	4.82	4.59	0.03	20.70	5.02	4.79	0.02
18.15	4.83	4.59	0.03	20.75	5.03	4.79	0.02

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.03	4.79	0.02	23.40	5.20	4.96	0.02
20.85	5.04	4.80	0.02	23.45	5.20	4.96	0.02
20.90	5.04	4.80	0.02	23.50	5.20	4.96	0.02
20.95	5.04	4.81	0.02	23.55	5.20	4.97	0.02
21.00	5.05	4.81	0.02	23.60	5.21	4.97	0.02
21.05	5.05	4.81	0.02	23.65	5.21	4.97	0.02
21.10	5.05	4.82	0.02	23.70	5.21	4.98	0.02
21.15	5.06	4.82	0.02	23.75	5.22	4.98	0.02
21.20	5.06	4.82	0.02	23.80	5.22	4.98	0.02
21.25	5.06	4.83	0.02	23.85	5.22	4.98	0.02
21.30	5.07	4.83	0.02	23.90	5.22	4.99	0.02
21.35	5.07	4.83	0.02	23.95	5.23	4.99	0.02
21.40	5.07	4.84	0.02	24.00	**5.23**	**4.99**	0.02
21.45	5.08	4.84	0.02				
21.50	5.08	4.84	0.02				
21.55	5.08	4.85	0.02				
21.60	5.09	4.85	0.02				
21.65	5.09	4.85	0.02				
21.70	5.09	4.86	0.02				
21.75	5.10	4.86	0.02				
21.80	5.10	4.86	0.02				
21.85	5.10	4.87	0.02				
21.90	5.11	4.87	0.02				
21.95	5.11	4.87	0.02				
22.00	5.11	4.87	0.02				
22.05	5.11	4.88	0.02				
22.10	5.12	4.88	0.02				
22.15	5.12	4.88	0.02				
22.20	5.12	4.89	0.02				
22.25	5.13	4.89	0.02				
22.30	5.13	4.89	0.02				
22.35	5.13	4.90	0.02				
22.40	5.14	4.90	0.02				
22.45	5.14	4.90	0.02				
22.50	5.14	4.91	0.02				
22.55	5.15	4.91	0.02				
22.60	5.15	4.91	0.02				
22.65	5.15	4.91	0.02				
22.70	5.16	4.92	0.02				
22.75	5.16	4.92	0.02				
22.80	5.16	4.92	0.02				
22.85	5.16	4.93	0.02				
22.90	5.17	4.93	0.02				
22.95	5.17	4.93	0.02				
23.00	5.17	4.94	0.02				
23.05	5.18	4.94	0.02				
23.10	5.18	4.94	0.02				
23.15	5.18	4.94	0.02				
23.20	5.18	4.95	0.02				
23.25	5.19	4.95	0.02				
23.30	5.19	4.95	0.02				
23.35	5.19	4.96	0.02				

Summary for Subcatchment EDA3 IMP: EDA3 IMP

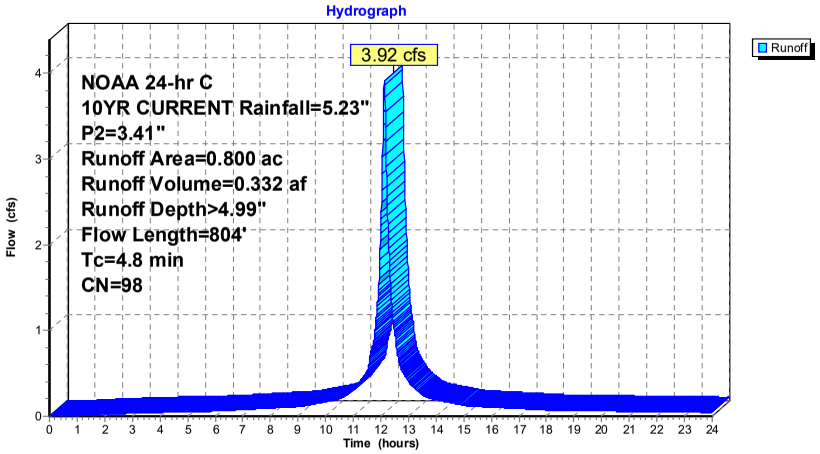
Runoff = 3.92 cfs @ 12.13 hrs, Volume= 0.332 af, Depth> 4.99"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR CURRENT Rainfall=5.23", P2=3.41"

	Area (ac)	CN	Description
*	0.750	98	Impervious vehicular
*	0.050	98	Impervious non vehicular
	0.800	98	Weighted Average
	0.800		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0071	0.94		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.7	172	0.0039	3.90	12.24	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
0.1	27	0.0120	6.84	21.48	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
1.6	439	0.0015	4.45	87.42	**Pipe Channel, RCP_Round 60"** 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.015
4.8	804	Total			

Subcatchment EDA3 IMP: EDA3 IMP



Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.16	0.04	0.03
0.05	0.00	0.00	0.00	2.65	0.16	0.04	0.03
0.10	0.01	0.00	0.00	2.70	0.16	0.05	0.03
0.15	0.01	0.00	0.00	2.75	0.17	0.05	0.03
0.20	0.01	0.00	0.00	2.80	0.17	0.05	0.03
0.25	0.01	0.00	0.00	2.85	0.17	0.05	0.03
0.30	0.02	0.00	0.00	2.90	0.18	0.05	0.03
0.35	0.02	0.00	0.00	2.95	0.18	0.06	0.03
0.40	0.02	0.00	0.00	3.00	0.18	0.06	0.04
0.45	0.03	0.00	0.00	3.05	0.19	0.06	0.04
0.50	0.03	0.00	0.00	3.10	0.19	0.06	0.04
0.55	0.03	0.00	0.00	3.15	0.19	0.07	0.04
0.60	0.03	0.00	0.00	3.20	0.20	0.07	0.04
0.65	0.04	0.00	0.00	3.25	0.20	0.07	0.04
0.70	0.04	0.00	0.00	3.30	0.21	0.07	0.04
0.75	0.04	0.00	0.00	3.35	0.21	0.08	0.04
0.80	0.05	0.00	0.00	3.40	0.21	0.08	0.04
0.85	0.05	0.00	0.00	3.45	0.22	0.08	0.04
0.90	0.05	0.00	0.00	3.50	0.22	0.08	0.04
0.95	0.05	0.00	0.00	3.55	0.22	0.09	0.04
1.00	0.06	0.00	0.00	3.60	0.23	0.09	0.04
1.05	0.06	0.00	0.01	3.65	0.23	0.09	0.04
1.10	0.06	0.00	0.01	3.70	0.23	0.09	0.04
1.15	0.07	0.00	0.01	3.75	0.24	0.10	0.04
1.20	0.07	0.00	0.01	3.80	0.24	0.10	0.04
1.25	0.07	0.00	0.01	3.85	0.24	0.10	0.04
1.30	0.07	0.00	0.01	3.90	0.25	0.10	0.04
1.35	0.08	0.01	0.01	3.95	0.25	0.11	0.04
1.40	0.08	0.01	0.01	4.00	0.26	0.11	0.04
1.45	0.08	0.01	0.01	4.05	0.26	0.11	0.04
1.50	0.09	0.01	0.01	4.10	0.26	0.12	0.05
1.55	0.09	0.01	0.02	4.15	0.27	0.12	0.05
1.60	0.09	0.01	0.02	4.20	0.27	0.12	0.05
1.65	0.10	0.01	0.02	4.25	0.27	0.12	0.05
1.70	0.10	0.01	0.02	4.30	0.28	0.13	0.05
1.75	0.10	0.01	0.02	4.35	0.28	0.13	0.05
1.80	0.11	0.02	0.02	4.40	0.29	0.13	0.05
1.85	0.11	0.02	0.02	4.45	0.29	0.14	0.05
1.90	0.11	0.02	0.02	4.50	0.29	0.14	0.05
1.95	0.12	0.02	0.02	4.55	0.30	0.14	0.05
2.00	0.12	0.02	0.02	4.60	0.30	0.15	0.05
2.05	0.12	0.02	0.02	4.65	0.31	0.15	0.05
2.10	0.12	0.02	0.02	4.70	0.31	0.15	0.05
2.15	0.13	0.03	0.02	4.75	0.31	0.16	0.05
2.20	0.13	0.03	0.03	4.80	0.32	0.16	0.05
2.25	0.13	0.03	0.03	4.85	0.32	0.16	0.05
2.30	0.14	0.03	0.03	4.90	0.32	0.17	0.05
2.35	0.14	0.03	0.03	4.95	0.33	0.17	0.05
2.40	0.14	0.03	0.03	5.00	0.33	0.17	0.05
2.45	0.15	0.04	0.03	5.05	0.34	0.18	0.05
2.50	0.15	0.04	0.03	5.10	0.34	0.18	0.05
2.55	0.15	0.04	0.03	5.15	0.34	0.18	0.05

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.35	0.19	0.05	7.80	0.60	0.41	0.09
5.25	0.35	0.19	0.05	7.85	0.61	0.42	0.09
5.30	0.36	0.19	0.05	7.90	0.61	0.42	0.09
5.35	0.36	0.20	0.05	7.95	0.62	0.43	0.09
5.40	0.36	0.20	0.05	8.00	0.63	0.43	0.09
5.45	0.37	0.20	0.06	8.05	0.63	0.44	0.09
5.50	0.37	0.21	0.06	8.10	0.64	0.45	0.10
5.55	0.38	0.21	0.06	8.15	0.65	0.45	0.10
5.60	0.38	0.21	0.06	8.20	0.65	0.46	0.10
5.65	0.39	0.22	0.06	8.25	0.66	0.46	0.10
5.70	0.39	0.22	0.06	8.30	0.67	0.47	0.10
5.75	0.39	0.22	0.06	8.35	0.67	0.48	0.10
5.80	0.40	0.23	0.06	8.40	0.68	0.48	0.10
5.85	0.40	0.23	0.06	8.45	0.69	0.49	0.10
5.90	0.41	0.23	0.06	8.50	0.69	0.50	0.10
5.95	0.41	0.24	0.06	8.55	0.70	0.50	0.10
6.00	0.41	0.24	0.06	8.60	0.71	0.51	0.10
6.05	0.42	0.25	0.06	8.65	0.71	0.52	0.10
6.10	0.42	0.25	0.06	8.70	0.72	0.52	0.11
6.15	0.43	0.25	0.06	8.75	0.73	0.53	0.11
6.20	0.43	0.26	0.06	8.80	0.73	0.54	0.11
6.25	0.44	0.26	0.06	8.85	0.74	0.54	0.11
6.30	0.44	0.27	0.06	8.90	0.75	0.55	0.11
6.35	0.45	0.27	0.06	8.95	0.76	0.56	0.11
6.40	0.45	0.27	0.07	9.00	0.76	0.56	0.11
6.45	0.45	0.28	0.07	9.05	0.77	0.57	0.11
6.50	0.46	0.28	0.07	9.10	0.78	0.58	0.12
6.55	0.46	0.29	0.07	9.15	0.79	0.59	0.12
6.60	0.47	0.29	0.07	9.20	0.80	0.59	0.12
6.65	0.47	0.29	0.07	9.25	0.80	0.60	0.12
6.70	0.48	0.30	0.07	9.30	0.81	0.61	0.13
6.75	0.48	0.30	0.07	9.35	0.82	0.62	0.13
6.80	0.49	0.31	0.07	9.40	0.83	0.63	0.13
6.85	0.49	0.31	0.07	9.45	0.84	0.64	0.14
6.90	0.50	0.32	0.07	9.50	0.85	0.65	0.14
6.95	0.50	0.32	0.07	9.55	0.86	0.65	0.14
7.00	0.51	0.33	0.08	9.60	0.87	0.66	0.15
7.05	0.52	0.33	0.08	9.65	0.88	0.67	0.15
7.10	0.52	0.34	0.08	9.70	0.89	0.68	0.15
7.15	0.53	0.34	0.08	9.75	0.90	0.69	0.15
7.20	0.53	0.35	0.08	9.80	0.91	0.70	0.16
7.25	0.54	0.35	0.08	9.85	0.92	0.71	0.16
7.30	0.54	0.36	0.08	9.90	0.93	0.72	0.16
7.35	0.55	0.36	0.08	9.95	0.94	0.74	0.17
7.40	0.55	0.37	0.08	10.00	0.95	0.75	0.17
7.45	0.56	0.37	0.08	10.05	0.97	0.76	0.17
7.50	0.57	0.38	0.08	10.10	0.98	0.77	0.18
7.55	0.57	0.38	0.09	10.15	0.99	0.78	0.18
7.60	0.58	0.39	0.09	10.20	1.00	0.79	0.18
7.65	0.58	0.39	0.09	10.25	1.01	0.80	0.19
7.70	0.59	0.40	0.09	10.30	1.03	0.82	0.19
7.75	0.60	0.41	0.09	10.35	1.04	0.83	0.19

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.05	0.84	0.20	13.00	3.97	3.74	0.41
10.45	1.06	0.85	0.20	13.05	4.00	3.76	0.39
10.50	1.08	0.87	0.20	13.10	4.02	3.78	0.37
10.55	1.09	0.88	0.21	13.15	4.04	3.80	0.35
10.60	1.11	0.90	0.22	13.20	4.05	3.82	0.33
10.65	1.12	0.91	0.23	13.25	4.07	3.84	0.32
10.70	1.14	0.93	0.24	13.30	4.09	3.86	0.30
10.75	1.16	0.94	0.25	13.35	4.11	3.87	0.29
10.80	1.18	0.96	0.26	13.40	4.12	3.89	0.28
10.85	1.19	0.98	0.27	13.45	4.14	3.90	0.27
10.90	1.21	1.00	0.29	13.50	4.15	3.92	0.25
10.95	1.23	1.02	0.30	13.55	4.17	3.93	0.24
11.00	1.26	1.04	0.31	13.60	4.18	3.94	0.23
11.05	1.28	1.06	0.32	13.65	4.19	3.96	0.22
11.10	1.30	1.09	0.34	13.70	4.20	3.97	0.21
11.15	1.33	1.11	0.36	13.75	4.22	3.98	0.21
11.20	1.35	1.14	0.39	13.80	4.23	3.99	0.21
11.25	1.38	1.17	0.41	13.85	4.24	4.01	0.20
11.30	1.41	1.19	0.43	13.90	4.25	4.02	0.20
11.35	1.45	1.23	0.45	13.95	4.26	4.03	0.20
11.40	1.48	1.26	0.48	14.00	4.28	4.04	0.19
11.45	1.51	1.29	0.49	14.05	4.29	4.05	0.19
11.50	1.55	1.32	0.52	14.10	4.30	4.06	0.19
11.55	1.60	1.38	0.57	14.15	4.31	4.07	0.18
11.60	1.65	1.43	0.68	14.20	4.32	4.09	0.18
11.65	1.71	1.48	0.76	14.25	4.33	4.10	0.18
11.70	1.76	1.54	0.81	14.30	4.34	4.11	0.17
11.75	1.84	1.61	0.90	14.35	4.35	4.12	0.17
11.80	1.92	1.69	1.03	14.40	4.36	4.13	0.17
11.85	2.02	1.80	1.19	14.45	4.37	4.14	0.16
11.90	2.13	1.90	1.40	14.50	4.38	4.15	0.16
11.95	2.31	2.08	1.72	14.55	4.39	4.15	0.16
12.00	2.49	2.26	2.22	14.60	4.40	4.16	0.15
12.05	2.80	2.57	2.83	14.65	4.41	4.17	0.15
12.10	3.10	2.87	**3.70**	14.70	4.42	4.18	0.15
12.15	3.21	2.98	**3.73**	14.75	4.43	4.19	0.14
12.20	3.31	3.08	2.92	14.80	4.43	4.20	0.14
12.25	3.39	3.16	2.35	14.85	4.44	4.21	0.14
12.30	3.47	3.23	1.88	14.90	4.45	4.21	0.14
12.35	3.52	3.29	1.55	14.95	4.46	4.22	0.13
12.40	3.58	3.35	1.26	15.00	4.47	4.23	0.13
12.45	3.63	3.40	1.08	15.05	4.47	4.24	0.13
12.50	3.68	3.45	0.98	15.10	4.48	4.24	0.12
12.55	3.72	3.48	0.87	15.15	4.49	4.25	0.12
12.60	3.75	3.52	0.73	15.20	4.50	4.26	0.12
12.65	3.78	3.55	0.64	15.25	4.50	4.27	0.12
12.70	3.82	3.58	0.59	15.30	4.51	4.27	0.12
12.75	3.85	3.61	0.55	15.35	4.52	4.28	0.12
12.80	3.88	3.64	0.51	15.40	4.52	4.29	0.11
12.85	3.90	3.67	0.48	15.45	4.53	4.29	0.11
12.90	3.93	3.69	0.46	15.50	4.54	4.30	0.11
12.95	3.95	3.72	0.44	15.55	4.54	4.31	0.11

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	4.55	4.31	0.11	18.20	4.83	4.60	0.07
15.65	4.56	4.32	0.11	18.25	4.84	4.60	0.07
15.70	4.56	4.33	0.11	18.30	4.84	4.60	0.07
15.75	4.57	4.33	0.11	18.35	4.84	4.61	0.07
15.80	4.58	4.34	0.11	18.40	4.85	4.61	0.07
15.85	4.58	4.35	0.11	18.45	4.85	4.62	0.07
15.90	4.59	4.35	0.11	18.50	4.86	4.62	0.07
15.95	4.60	4.36	0.11	18.55	4.86	4.62	0.07
16.00	4.60	4.37	0.10	18.60	4.87	4.63	0.07
16.05	4.61	4.37	0.10	18.65	4.87	4.63	0.07
16.10	4.62	4.38	0.10	18.70	4.87	4.64	0.07
16.15	4.62	4.39	0.10	18.75	4.88	4.64	0.07
16.20	4.63	4.39	0.10	18.80	4.88	4.64	0.07
16.25	4.63	4.40	0.10	18.85	4.89	4.65	0.06
16.30	4.64	4.40	0.10	18.90	4.89	4.65	0.06
16.35	4.65	4.41	0.10	18.95	4.89	4.66	0.06
16.40	4.65	4.42	0.10	19.00	4.90	4.66	0.06
16.45	4.66	4.42	0.10	19.05	4.90	4.66	0.06
16.50	4.66	4.43	0.10	19.10	4.91	4.67	0.06
16.55	4.67	4.43	0.09	19.15	4.91	4.67	0.06
16.60	4.68	4.44	0.09	19.20	4.91	4.68	0.06
16.65	4.68	4.45	0.09	19.25	4.92	4.68	0.06
16.70	4.69	4.45	0.09	19.30	4.92	4.68	0.06
16.75	4.69	4.46	0.09	19.35	4.92	4.69	0.06
16.80	4.70	4.46	0.09	19.40	4.93	4.69	0.06
16.85	4.70	4.47	0.09	19.45	4.93	4.70	0.06
16.90	4.71	4.47	0.09	19.50	4.94	4.70	0.06
16.95	4.71	4.48	0.09	19.55	4.94	4.70	0.06
17.00	4.72	4.48	0.09	19.60	4.94	4.71	0.06
17.05	4.73	4.49	0.09	19.65	4.95	4.71	0.06
17.10	4.73	4.49	0.09	19.70	4.95	4.71	0.06
17.15	4.74	4.50	0.09	19.75	4.96	4.72	0.06
17.20	4.74	4.50	0.08	19.80	4.96	4.72	0.06
17.25	4.75	4.51	0.08	19.85	4.96	4.73	0.06
17.30	4.75	4.51	0.08	19.90	4.97	4.73	0.06
17.35	4.76	4.52	0.08	19.95	4.97	4.73	0.06
17.40	4.76	4.52	0.08	20.00	4.97	4.74	0.06
17.45	4.77	4.53	0.08	20.05	4.98	4.74	0.06
17.50	4.77	4.53	0.08	20.10	4.98	4.74	0.06
17.55	4.78	4.54	0.08	20.15	4.99	4.75	0.06
17.60	4.78	4.54	0.08	20.20	4.99	4.75	0.06
17.65	4.78	4.55	0.08	20.25	4.99	4.76	0.06
17.70	4.79	4.55	0.08	20.30	5.00	4.76	0.06
17.75	4.79	4.56	0.07	20.35	5.00	4.76	0.06
17.80	4.80	4.56	0.07	20.40	5.00	4.77	0.06
17.85	4.80	4.57	0.07	20.45	5.01	4.77	0.06
17.90	4.81	4.57	0.07	20.50	5.01	4.77	0.06
17.95	4.81	4.57	0.07	20.55	5.01	4.78	0.06
18.00	4.82	4.58	0.07	20.60	5.02	4.78	0.06
18.05	4.82	4.58	0.07	20.65	5.02	4.78	0.06
18.10	4.82	4.59	0.07	20.70	5.02	4.79	0.06
18.15	4.83	4.59	0.07	20.75	5.03	4.79	0.06

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.03	4.79	0.06	23.40	5.20	4.96	0.05
20.85	5.04	4.80	0.06	23.45	5.20	4.96	0.05
20.90	5.04	4.80	0.06	23.50	5.20	4.96	0.05
20.95	5.04	4.81	0.06	23.55	5.20	4.97	0.05
21.00	5.05	4.81	0.06	23.60	5.21	4.97	0.05
21.05	5.05	4.81	0.06	23.65	5.21	4.97	0.04
21.10	5.05	4.82	0.06	23.70	5.21	4.98	0.04
21.15	5.06	4.82	0.06	23.75	5.22	4.98	0.04
21.20	5.06	4.82	0.06	23.80	5.22	4.98	0.04
21.25	5.06	4.83	0.05	23.85	5.22	4.98	0.04
21.30	5.07	4.83	0.05	23.90	5.22	4.99	0.04
21.35	5.07	4.83	0.05	23.95	5.23	4.99	0.05
21.40	5.07	4.84	0.05	24.00	**5.23**	**4.99**	0.05
21.45	5.08	4.84	0.05				
21.50	5.08	4.84	0.05				
21.55	5.08	4.85	0.05				
21.60	5.09	4.85	0.05				
21.65	5.09	4.85	0.05				
21.70	5.09	4.86	0.05				
21.75	5.10	4.86	0.05				
21.80	5.10	4.86	0.05				
21.85	5.10	4.87	0.05				
21.90	5.11	4.87	0.05				
21.95	5.11	4.87	0.05				
22.00	5.11	4.87	0.05				
22.05	5.11	4.88	0.05				
22.10	5.12	4.88	0.05				
22.15	5.12	4.88	0.05				
22.20	5.12	4.89	0.05				
22.25	5.13	4.89	0.05				
22.30	5.13	4.89	0.05				
22.35	5.13	4.90	0.05				
22.40	5.14	4.90	0.05				
22.45	5.14	4.90	0.05				
22.50	5.14	4.91	0.05				
22.55	5.15	4.91	0.05				
22.60	5.15	4.91	0.05				
22.65	5.15	4.91	0.05				
22.70	5.16	4.92	0.05				
22.75	5.16	4.92	0.05				
22.80	5.16	4.92	0.05				
22.85	5.16	4.93	0.05				
22.90	5.17	4.93	0.05				
22.95	5.17	4.93	0.05				
23.00	5.17	4.94	0.05				
23.05	5.18	4.94	0.05				
23.10	5.18	4.94	0.05				
23.15	5.18	4.94	0.05				
23.20	5.18	4.95	0.05				
23.25	5.19	4.95	0.05				
23.30	5.19	4.95	0.05				
23.35	5.19	4.96	0.05				

Summary for Subcatchment EDA3 PERV: EDA3 PERV

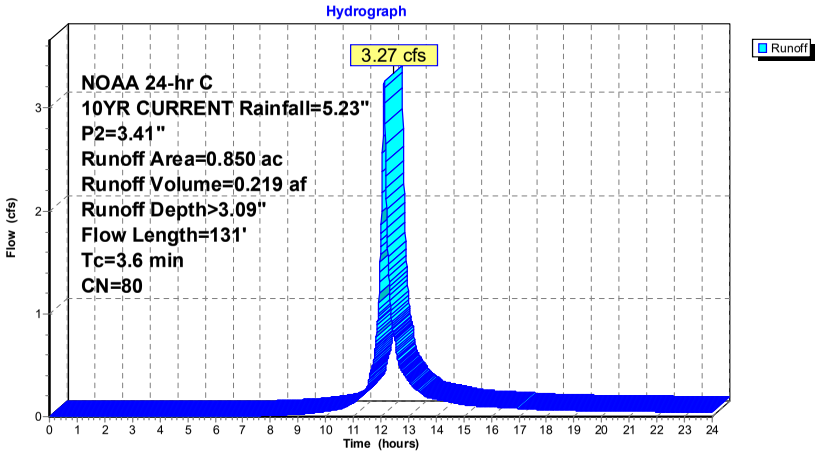
Runoff = 3.27 cfs @ 12.12 hrs, Volume= 0.219 af, Depth> 3.09"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR CURRENT Rainfall=5.23", P2=3.41"

Area (ac)	CN	Description
0.850	80	>75% Grass cover, Good, HSG D
0.850		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	23	0.0200	0.13		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.1	42	0.0150	5.59	6.86	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
3.6	131	Total			

Subcatchment EDA3 PERV: EDA3 PERV



Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.16	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.16	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.16	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.17	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.17	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.17	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.18	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.18	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.18	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.19	0.00	0.00
0.50	0.03	0.00	0.00	3.10	0.19	0.00	0.00
0.55	0.03	0.00	0.00	3.15	0.19	0.00	0.00
0.60	0.03	0.00	0.00	3.20	0.20	0.00	0.00
0.65	0.04	0.00	0.00	3.25	0.20	0.00	0.00
0.70	0.04	0.00	0.00	3.30	0.21	0.00	0.00
0.75	0.04	0.00	0.00	3.35	0.21	0.00	0.00
0.80	0.05	0.00	0.00	3.40	0.21	0.00	0.00
0.85	0.05	0.00	0.00	3.45	0.22	0.00	0.00
0.90	0.05	0.00	0.00	3.50	0.22	0.00	0.00
0.95	0.05	0.00	0.00	3.55	0.22	0.00	0.00
1.00	0.06	0.00	0.00	3.60	0.23	0.00	0.00
1.05	0.06	0.00	0.00	3.65	0.23	0.00	0.00
1.10	0.06	0.00	0.00	3.70	0.23	0.00	0.00
1.15	0.07	0.00	0.00	3.75	0.24	0.00	0.00
1.20	0.07	0.00	0.00	3.80	0.24	0.00	0.00
1.25	0.07	0.00	0.00	3.85	0.24	0.00	0.00
1.30	0.07	0.00	0.00	3.90	0.25	0.00	0.00
1.35	0.08	0.00	0.00	3.95	0.25	0.00	0.00
1.40	0.08	0.00	0.00	4.00	0.26	0.00	0.00
1.45	0.08	0.00	0.00	4.05	0.26	0.00	0.00
1.50	0.09	0.00	0.00	4.10	0.26	0.00	0.00
1.55	0.09	0.00	0.00	4.15	0.27	0.00	0.00
1.60	0.09	0.00	0.00	4.20	0.27	0.00	0.00
1.65	0.10	0.00	0.00	4.25	0.27	0.00	0.00
1.70	0.10	0.00	0.00	4.30	0.28	0.00	0.00
1.75	0.10	0.00	0.00	4.35	0.28	0.00	0.00
1.80	0.11	0.00	0.00	4.40	0.29	0.00	0.00
1.85	0.11	0.00	0.00	4.45	0.29	0.00	0.00
1.90	0.11	0.00	0.00	4.50	0.29	0.00	0.00
1.95	0.12	0.00	0.00	4.55	0.30	0.00	0.00
2.00	0.12	0.00	0.00	4.60	0.30	0.00	0.00
2.05	0.12	0.00	0.00	4.65	0.31	0.00	0.00
2.10	0.12	0.00	0.00	4.70	0.31	0.00	0.00
2.15	0.13	0.00	0.00	4.75	0.31	0.00	0.00
2.20	0.13	0.00	0.00	4.80	0.32	0.00	0.00
2.25	0.13	0.00	0.00	4.85	0.32	0.00	0.00
2.30	0.14	0.00	0.00	4.90	0.32	0.00	0.00
2.35	0.14	0.00	0.00	4.95	0.33	0.00	0.00
2.40	0.14	0.00	0.00	5.00	0.33	0.00	0.00
2.45	0.15	0.00	0.00	5.05	0.34	0.00	0.00
2.50	0.15	0.00	0.00	5.10	0.34	0.00	0.00
2.55	0.15	0.00	0.00	5.15	0.34	0.00	0.00

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.35	0.00	0.00	7.80	0.60	0.00	0.01
5.25	0.35	0.00	0.00	7.85	0.61	0.00	0.01
5.30	0.36	0.00	0.00	7.90	0.61	0.00	0.01
5.35	0.36	0.00	0.00	7.95	0.62	0.01	0.01
5.40	0.36	0.00	0.00	8.00	0.63	0.01	0.01
5.45	0.37	0.00	0.00	8.05	0.63	0.01	0.01
5.50	0.37	0.00	0.00	8.10	0.64	0.01	0.01
5.55	0.38	0.00	0.00	8.15	0.65	0.01	0.01
5.60	0.38	0.00	0.00	8.20	0.65	0.01	0.01
5.65	0.39	0.00	0.00	8.25	0.66	0.01	0.01
5.70	0.39	0.00	0.00	8.30	0.67	0.01	0.01
5.75	0.39	0.00	0.00	8.35	0.67	0.01	0.01
5.80	0.40	0.00	0.00	8.40	0.68	0.01	0.01
5.85	0.40	0.00	0.00	8.45	0.69	0.01	0.01
5.90	0.41	0.00	0.00	8.50	0.69	0.01	0.02
5.95	0.41	0.00	0.00	8.55	0.70	0.01	0.02
6.00	0.41	0.00	0.00	8.60	0.71	0.02	0.02
6.05	0.42	0.00	0.00	8.65	0.71	0.02	0.02
6.10	0.42	0.00	0.00	8.70	0.72	0.02	0.02
6.15	0.43	0.00	0.00	8.75	0.73	0.02	0.02
6.20	0.43	0.00	0.00	8.80	0.73	0.02	0.02
6.25	0.44	0.00	0.00	8.85	0.74	0.02	0.02
6.30	0.44	0.00	0.00	8.90	0.75	0.02	0.02
6.35	0.45	0.00	0.00	8.95	0.76	0.02	0.02
6.40	0.45	0.00	0.00	9.00	0.76	0.03	0.02
6.45	0.45	0.00	0.00	9.05	0.77	0.03	0.02
6.50	0.46	0.00	0.00	9.10	0.78	0.03	0.02
6.55	0.46	0.00	0.00	9.15	0.79	0.03	0.02
6.60	0.47	0.00	0.00	9.20	0.80	0.03	0.03
6.65	0.47	0.00	0.00	9.25	0.80	0.03	0.03
6.70	0.48	0.00	0.00	9.30	0.81	0.03	0.03
6.75	0.48	0.00	0.00	9.35	0.82	0.04	0.03
6.80	0.49	0.00	0.00	9.40	0.83	0.04	0.03
6.85	0.49	0.00	0.00	9.45	0.84	0.04	0.03
6.90	0.50	0.00	0.00	9.50	0.85	0.04	0.03
6.95	0.50	0.00	0.00	9.55	0.86	0.04	0.04
7.00	0.51	0.00	0.00	9.60	0.87	0.05	0.04
7.05	0.52	0.00	0.00	9.65	0.88	0.05	0.04
7.10	0.52	0.00	0.00	9.70	0.89	0.05	0.04
7.15	0.53	0.00	0.00	9.75	0.90	0.05	0.04
7.20	0.53	0.00	0.00	9.80	0.91	0.06	0.04
7.25	0.54	0.00	0.00	9.85	0.92	0.06	0.05
7.30	0.54	0.00	0.00	9.90	0.93	0.06	0.05
7.35	0.55	0.00	0.00	9.95	0.94	0.07	0.05
7.40	0.55	0.00	0.00	10.00	0.95	0.07	0.05
7.45	0.56	0.00	0.00	10.05	0.97	0.07	0.05
7.50	0.57	0.00	0.00	10.10	0.98	0.08	0.06
7.55	0.57	0.00	0.00	10.15	0.99	0.08	0.06
7.60	0.58	0.00	0.01	10.20	1.00	0.08	0.06
7.65	0.58	0.00	0.01	10.25	1.01	0.09	0.06
7.70	0.59	0.00	0.01	10.30	1.03	0.09	0.06
7.75	0.60	0.00	0.01	10.35	1.04	0.10	0.07

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.05	0.10	0.07	13.00	3.97	2.02	0.35
10.45	1.06	0.10	0.07	13.05	4.00	2.04	0.33
10.50	1.08	0.11	0.07	13.10	4.02	2.06	0.31
10.55	1.09	0.11	0.08	13.15	4.04	2.07	0.30
10.60	1.11	0.12	0.08	13.20	4.05	2.09	0.28
10.65	1.12	0.12	0.09	13.25	4.07	2.10	0.27
10.70	1.14	0.13	0.09	13.30	4.09	2.12	0.26
10.75	1.16	0.14	0.10	13.35	4.11	2.13	0.25
10.80	1.18	0.14	0.11	13.40	4.12	2.14	0.24
10.85	1.19	0.15	0.11	13.45	4.14	2.16	0.23
10.90	1.21	0.16	0.12	13.50	4.15	2.17	0.22
10.95	1.23	0.17	0.13	13.55	4.17	2.18	0.21
11.00	1.26	0.18	0.14	13.60	4.18	2.19	0.20
11.05	1.28	0.18	0.15	13.65	4.19	2.20	0.19
11.10	1.30	0.19	0.16	13.70	4.20	2.21	0.19
11.15	1.33	0.21	0.17	13.75	4.22	2.22	0.18
11.20	1.35	0.22	0.19	13.80	4.23	2.23	0.18
11.25	1.38	0.23	0.20	13.85	4.24	2.24	0.18
11.30	1.41	0.24	0.21	13.90	4.25	2.25	0.18
11.35	1.45	0.26	0.23	13.95	4.26	2.26	0.17
11.40	1.48	0.27	0.25	14.00	4.28	2.27	0.17
11.45	1.51	0.29	0.26	14.05	4.29	2.28	0.17
11.50	1.55	0.31	0.28	14.10	4.30	2.29	0.16
11.55	1.60	0.34	0.33	14.15	4.31	2.30	0.16
11.60	1.65	0.36	0.40	14.20	4.32	2.31	0.16
11.65	1.71	0.39	0.45	14.25	4.33	2.32	0.16
11.70	1.76	0.42	0.49	14.30	4.34	2.33	0.15
11.75	1.84	0.47	0.57	14.35	4.35	2.34	0.15
11.80	1.92	0.51	0.67	14.40	4.36	2.34	0.15
11.85	2.02	0.58	0.81	14.45	4.37	2.35	0.15
11.90	2.13	0.64	0.97	14.50	4.38	2.36	0.14
11.95	2.31	0.76	1.31	14.55	4.39	2.37	0.14
12.00	2.49	0.88	1.71	14.60	4.40	2.38	0.14
12.05	2.80	1.10	2.38	14.65	4.41	2.38	0.13
12.10	3.10	1.33	**3.13**	14.70	4.42	2.39	0.13
12.15	3.21	1.41	**2.84**	14.75	4.43	2.40	0.13
12.20	3.31	1.49	2.11	14.80	4.43	2.41	0.13
12.25	3.39	1.55	1.64	14.85	4.44	2.41	0.12
12.30	3.47	1.61	1.31	14.90	4.45	2.42	0.12
12.35	3.52	1.65	1.07	14.95	4.46	2.43	0.12
12.40	3.58	1.70	0.90	15.00	4.47	2.43	0.11
12.45	3.63	1.74	0.81	15.05	4.47	2.44	0.11
12.50	3.68	1.78	0.76	15.10	4.48	2.45	0.11
12.55	3.72	1.81	0.67	15.15	4.49	2.45	0.11
12.60	3.75	1.84	0.57	15.20	4.50	2.46	0.11
12.65	3.78	1.87	0.51	15.25	4.50	2.46	0.11
12.70	3.82	1.89	0.47	15.30	4.51	2.47	0.10
12.75	3.85	1.92	0.45	15.35	4.52	2.48	0.10
12.80	3.88	1.94	0.43	15.40	4.52	2.48	0.10
12.85	3.90	1.96	0.41	15.45	4.53	2.49	0.10
12.90	3.93	1.98	0.39	15.50	4.54	2.49	0.10
12.95	3.95	2.00	0.37	15.55	4.54	2.50	0.10

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	4.55	2.51	0.10	18.20	4.83	2.75	0.06
15.65	4.56	2.51	0.10	18.25	4.84	2.75	0.06
15.70	4.56	2.52	0.10	18.30	4.84	2.75	0.06
15.75	4.57	2.52	0.10	18.35	4.84	2.76	0.06
15.80	4.58	2.53	0.10	18.40	4.85	2.76	0.06
15.85	4.58	2.53	0.10	18.45	4.85	2.77	0.06
15.90	4.59	2.54	0.10	18.50	4.86	2.77	0.06
15.95	4.60	2.54	0.10	18.55	4.86	2.77	0.06
16.00	4.60	2.55	0.09	18.60	4.87	2.78	0.06
16.05	4.61	2.56	0.09	18.65	4.87	2.78	0.06
16.10	4.62	2.56	0.09	18.70	4.87	2.78	0.06
16.15	4.62	2.57	0.09	18.75	4.88	2.79	0.06
16.20	4.63	2.57	0.09	18.80	4.88	2.79	0.06
16.25	4.63	2.58	0.09	18.85	4.89	2.79	0.06
16.30	4.64	2.58	0.09	18.90	4.89	2.80	0.06
16.35	4.65	2.59	0.09	18.95	4.89	2.80	0.06
16.40	4.65	2.59	0.09	19.00	4.90	2.80	0.06
16.45	4.66	2.60	0.09	19.05	4.90	2.81	0.06
16.50	4.66	2.60	0.09	19.10	4.91	2.81	0.06
16.55	4.67	2.61	0.09	19.15	4.91	2.81	0.06
16.60	4.68	2.61	0.09	19.20	4.91	2.82	0.06
16.65	4.68	2.62	0.08	19.25	4.92	2.82	0.06
16.70	4.69	2.62	0.08	19.30	4.92	2.82	0.06
16.75	4.69	2.63	0.08	19.35	4.92	2.83	0.06
16.80	4.70	2.63	0.08	19.40	4.93	2.83	0.06
16.85	4.70	2.64	0.08	19.45	4.93	2.83	0.06
16.90	4.71	2.64	0.08	19.50	4.94	2.84	0.06
16.95	4.71	2.65	0.08	19.55	4.94	2.84	0.06
17.00	4.72	2.65	0.08	19.60	4.94	2.84	0.06
17.05	4.73	2.65	0.08	19.65	4.95	2.85	0.06
17.10	4.73	2.66	0.08	19.70	4.95	2.85	0.06
17.15	4.74	2.66	0.08	19.75	4.96	2.85	0.06
17.20	4.74	2.67	0.08	19.80	4.96	2.86	0.06
17.25	4.75	2.67	0.08	19.85	4.96	2.86	0.06
17.30	4.75	2.68	0.08	19.90	4.97	2.86	0.06
17.35	4.76	2.68	0.07	19.95	4.97	2.87	0.06
17.40	4.76	2.69	0.07	20.00	4.97	2.87	0.06
17.45	4.77	2.69	0.07	20.05	4.98	2.87	0.06
17.50	4.77	2.69	0.07	20.10	4.98	2.88	0.06
17.55	4.78	2.70	0.07	20.15	4.99	2.88	0.06
17.60	4.78	2.70	0.07	20.20	4.99	2.88	0.05
17.65	4.78	2.71	0.07	20.25	4.99	2.89	0.05
17.70	4.79	2.71	0.07	20.30	5.00	2.89	0.05
17.75	4.79	2.71	0.07	20.35	5.00	2.89	0.05
17.80	4.80	2.72	0.07	20.40	5.00	2.90	0.05
17.85	4.80	2.72	0.07	20.45	5.01	2.90	0.05
17.90	4.81	2.73	0.07	20.50	5.01	2.90	0.05
17.95	4.81	2.73	0.07	20.55	5.01	2.91	0.05
18.00	4.82	2.73	0.06	20.60	5.02	2.91	0.05
18.05	4.82	2.74	0.06	20.65	5.02	2.91	0.05
18.10	4.82	2.74	0.06	20.70	5.02	2.91	0.05
18.15	4.83	2.74	0.06	20.75	5.03	2.92	0.05

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.03	2.92	0.05	23.40	5.20	3.06	0.04
20.85	5.04	2.92	0.05	23.45	5.20	3.07	0.04
20.90	5.04	2.93	0.05	23.50	5.20	3.07	0.04
20.95	5.04	2.93	0.05	23.55	5.20	3.07	0.04
21.00	5.05	2.93	0.05	23.60	5.21	3.07	0.04
21.05	5.05	2.94	0.05	23.65	5.21	3.08	0.04
21.10	5.05	2.94	0.05	23.70	5.21	3.08	0.04
21.15	5.06	2.94	0.05	23.75	5.22	3.08	0.04
21.20	5.06	2.94	0.05	23.80	5.22	3.08	0.04
21.25	5.06	2.95	0.05	23.85	5.22	3.09	0.04
21.30	5.07	2.95	0.05	23.90	5.22	3.09	0.04
21.35	5.07	2.95	0.05	23.95	5.23	3.09	0.04
21.40	5.07	2.96	0.05	24.00	**5.23**	**3.09**	0.05
21.45	5.08	2.96	0.05				
21.50	5.08	2.96	0.05				
21.55	5.08	2.97	0.05				
21.60	5.09	2.97	0.05				
21.65	5.09	2.97	0.05				
21.70	5.09	2.97	0.05				
21.75	5.10	2.98	0.05				
21.80	5.10	2.98	0.05				
21.85	5.10	2.98	0.05				
21.90	5.11	2.98	0.05				
21.95	5.11	2.99	0.05				
22.00	5.11	2.99	0.05				
22.05	5.11	2.99	0.05				
22.10	5.12	3.00	0.05				
22.15	5.12	3.00	0.05				
22.20	5.12	3.00	0.05				
22.25	5.13	3.00	0.05				
22.30	5.13	3.01	0.05				
22.35	5.13	3.01	0.05				
22.40	5.14	3.01	0.05				
22.45	5.14	3.02	0.05				
22.50	5.14	3.02	0.05				
22.55	5.15	3.02	0.05				
22.60	5.15	3.02	0.05				
22.65	5.15	3.03	0.05				
22.70	5.16	3.03	0.05				
22.75	5.16	3.03	0.05				
22.80	5.16	3.03	0.05				
22.85	5.16	3.04	0.04				
22.90	5.17	3.04	0.04				
22.95	5.17	3.04	0.04				
23.00	5.17	3.04	0.04				
23.05	5.18	3.05	0.04				
23.10	5.18	3.05	0.04				
23.15	5.18	3.05	0.04				
23.20	5.18	3.05	0.04				
23.25	5.19	3.06	0.04				
23.30	5.19	3.06	0.04				
23.35	5.19	3.06	0.04				

Summary for Subcatchment EDA4 IMP: EDA4 IMP

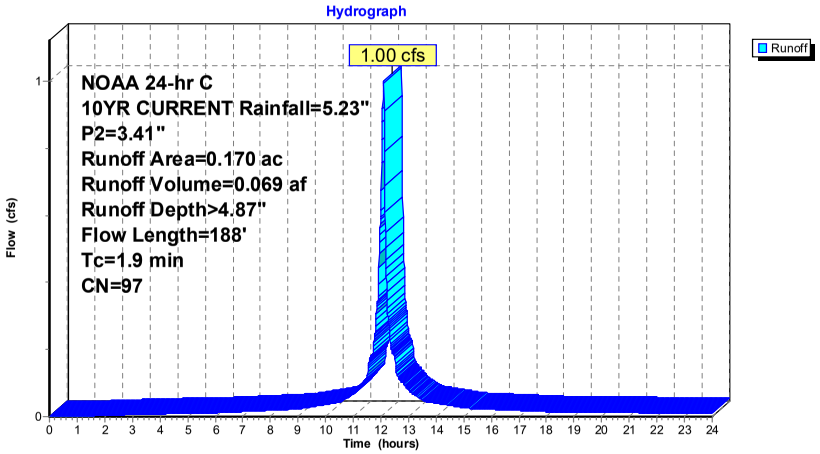
Runoff = 1.00 cfs @ 12.10 hrs, Volume= 0.069 af, Depth> 4.87"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR CURRENT Rainfall=5.23", P2=3.41"

	Area (ac)	CN	Description
*	0.120	98	Impervious vehicular
	0.050	96	Gravel surface, HSG D
	0.170	97	Weighted Average
	0.050		29.41% Pervious Area
	0.120		70.59% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	100	0.0160	1.30		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.6	88	0.0150	2.49		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
1.9	188	Total			

Subcatchment EDA4 IMP: EDA4 IMP



Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.16	0.02	0.00
0.05	0.00	0.00	0.00	2.65	0.16	0.02	0.00
0.10	0.01	0.00	0.00	2.70	0.16	0.03	0.00
0.15	0.01	0.00	0.00	2.75	0.17	0.03	0.01
0.20	0.01	0.00	0.00	2.80	0.17	0.03	0.01
0.25	0.01	0.00	0.00	2.85	0.17	0.03	0.01
0.30	0.02	0.00	0.00	2.90	0.18	0.03	0.01
0.35	0.02	0.00	0.00	2.95	0.18	0.03	0.01
0.40	0.02	0.00	0.00	3.00	0.18	0.03	0.01
0.45	0.03	0.00	0.00	3.05	0.19	0.04	0.01
0.50	0.03	0.00	0.00	3.10	0.19	0.04	0.01
0.55	0.03	0.00	0.00	3.15	0.19	0.04	0.01
0.60	0.03	0.00	0.00	3.20	0.20	0.04	0.01
0.65	0.04	0.00	0.00	3.25	0.20	0.04	0.01
0.70	0.04	0.00	0.00	3.30	0.21	0.05	0.01
0.75	0.04	0.00	0.00	3.35	0.21	0.05	0.01
0.80	0.05	0.00	0.00	3.40	0.21	0.05	0.01
0.85	0.05	0.00	0.00	3.45	0.22	0.05	0.01
0.90	0.05	0.00	0.00	3.50	0.22	0.05	0.01
0.95	0.05	0.00	0.00	3.55	0.22	0.06	0.01
1.00	0.06	0.00	0.00	3.60	0.23	0.06	0.01
1.05	0.06	0.00	0.00	3.65	0.23	0.06	0.01
1.10	0.06	0.00	0.00	3.70	0.23	0.06	0.01
1.15	0.07	0.00	0.00	3.75	0.24	0.06	0.01
1.20	0.07	0.00	0.00	3.80	0.24	0.07	0.01
1.25	0.07	0.00	0.00	3.85	0.24	0.07	0.01
1.30	0.07	0.00	0.00	3.90	0.25	0.07	0.01
1.35	0.08	0.00	0.00	3.95	0.25	0.07	0.01
1.40	0.08	0.00	0.00	4.00	0.26	0.07	0.01
1.45	0.08	0.00	0.00	4.05	0.26	0.08	0.01
1.50	0.09	0.00	0.00	4.10	0.26	0.08	0.01
1.55	0.09	0.00	0.00	4.15	0.27	0.08	0.01
1.60	0.09	0.00	0.00	4.20	0.27	0.08	0.01
1.65	0.10	0.00	0.00	4.25	0.27	0.09	0.01
1.70	0.10	0.00	0.00	4.30	0.28	0.09	0.01
1.75	0.10	0.00	0.00	4.35	0.28	0.09	0.01
1.80	0.11	0.01	0.00	4.40	0.29	0.09	0.01
1.85	0.11	0.01	0.00	4.45	0.29	0.10	0.01
1.90	0.11	0.01	0.00	4.50	0.29	0.10	0.01
1.95	0.12	0.01	0.00	4.55	0.30	0.10	0.01
2.00	0.12	0.01	0.00	4.60	0.30	0.10	0.01
2.05	0.12	0.01	0.00	4.65	0.31	0.11	0.01
2.10	0.12	0.01	0.00	4.70	0.31	0.11	0.01
2.15	0.13	0.01	0.00	4.75	0.31	0.11	0.01
2.20	0.13	0.01	0.00	4.80	0.32	0.12	0.01
2.25	0.13	0.01	0.00	4.85	0.32	0.12	0.01
2.30	0.14	0.01	0.00	4.90	0.32	0.12	0.01
2.35	0.14	0.02	0.00	4.95	0.33	0.12	0.01
2.40	0.14	0.02	0.00	5.00	0.33	0.13	0.01
2.45	0.15	0.02	0.00	5.05	0.34	0.13	0.01
2.50	0.15	0.02	0.00	5.10	0.34	0.13	0.01
2.55	0.15	0.02	0.00	5.15	0.34	0.14	0.01

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.35	0.14	0.01	7.80	0.60	0.34	0.02
5.25	0.35	0.14	0.01	7.85	0.61	0.35	0.02
5.30	0.36	0.14	0.01	7.90	0.61	0.35	0.02
5.35	0.36	0.15	0.01	7.95	0.62	0.36	0.02
5.40	0.36	0.15	0.01	8.00	0.63	0.36	0.02
5.45	0.37	0.15	0.01	8.05	0.63	0.37	0.02
5.50	0.37	0.16	0.01	8.10	0.64	0.38	0.02
5.55	0.38	0.16	0.01	8.15	0.65	0.38	0.02
5.60	0.38	0.16	0.01	8.20	0.65	0.39	0.02
5.65	0.39	0.17	0.01	8.25	0.66	0.39	0.02
5.70	0.39	0.17	0.01	8.30	0.67	0.40	0.02
5.75	0.39	0.17	0.01	8.35	0.67	0.41	0.02
5.80	0.40	0.17	0.01	8.40	0.68	0.41	0.02
5.85	0.40	0.18	0.01	8.45	0.69	0.42	0.02
5.90	0.41	0.18	0.01	8.50	0.69	0.42	0.02
5.95	0.41	0.18	0.01	8.55	0.70	0.43	0.02
6.00	0.41	0.19	0.01	8.60	0.71	0.44	0.02
6.05	0.42	0.19	0.01	8.65	0.71	0.44	0.02
6.10	0.42	0.19	0.01	8.70	0.72	0.45	0.02
6.15	0.43	0.20	0.01	8.75	0.73	0.45	0.02
6.20	0.43	0.20	0.01	8.80	0.73	0.46	0.02
6.25	0.44	0.21	0.01	8.85	0.74	0.47	0.02
6.30	0.44	0.21	0.01	8.90	0.75	0.47	0.02
6.35	0.45	0.21	0.01	8.95	0.76	0.48	0.02
6.40	0.45	0.22	0.01	9.00	0.76	0.49	0.02
6.45	0.45	0.22	0.01	9.05	0.77	0.49	0.02
6.50	0.46	0.22	0.01	9.10	0.78	0.50	0.02
6.55	0.46	0.23	0.01	9.15	0.79	0.51	0.02
6.60	0.47	0.23	0.01	9.20	0.80	0.52	0.03
6.65	0.47	0.24	0.01	9.25	0.80	0.52	0.03
6.70	0.48	0.24	0.01	9.30	0.81	0.53	0.03
6.75	0.48	0.24	0.01	9.35	0.82	0.54	0.03
6.80	0.49	0.25	0.01	9.40	0.83	0.55	0.03
6.85	0.49	0.25	0.01	9.45	0.84	0.56	0.03
6.90	0.50	0.26	0.01	9.50	0.85	0.56	0.03
6.95	0.50	0.26	0.01	9.55	0.86	0.57	0.03
7.00	0.51	0.27	0.01	9.60	0.87	0.58	0.03
7.05	0.52	0.27	0.02	9.65	0.88	0.59	0.03
7.10	0.52	0.27	0.02	9.70	0.89	0.60	0.03
7.15	0.53	0.28	0.02	9.75	0.90	0.61	0.03
7.20	0.53	0.28	0.02	9.80	0.91	0.62	0.03
7.25	0.54	0.29	0.02	9.85	0.92	0.63	0.03
7.30	0.54	0.29	0.02	9.90	0.93	0.64	0.03
7.35	0.55	0.30	0.02	9.95	0.94	0.65	0.04
7.40	0.55	0.30	0.02	10.00	0.95	0.66	0.04
7.45	0.56	0.31	0.02	10.05	0.97	0.67	0.04
7.50	0.57	0.31	0.02	10.10	0.98	0.68	0.04
7.55	0.57	0.32	0.02	10.15	0.99	0.70	0.04
7.60	0.58	0.32	0.02	10.20	1.00	0.71	0.04
7.65	0.58	0.33	0.02	10.25	1.01	0.72	0.04
7.70	0.59	0.33	0.02	10.30	1.03	0.73	0.04
7.75	0.60	0.34	0.02	10.35	1.04	0.74	0.04

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.05	0.75	0.04	13.00	3.97	3.63	0.08
10.45	1.06	0.77	0.04	13.05	4.00	3.65	0.07
10.50	1.08	0.78	0.04	13.10	4.02	3.67	0.07
10.55	1.09	0.79	0.05	13.15	4.04	3.69	0.07
10.60	1.11	0.81	0.05	13.20	4.05	3.71	0.07
10.65	1.12	0.82	0.05	13.25	4.07	3.72	0.06
10.70	1.14	0.84	0.05	13.30	4.09	3.74	0.06
10.75	1.16	0.85	0.06	13.35	4.11	3.76	0.06
10.80	1.18	0.87	0.06	13.40	4.12	3.77	0.06
10.85	1.19	0.89	0.06	13.45	4.14	3.79	0.05
10.90	1.21	0.91	0.06	13.50	4.15	3.80	0.05
10.95	1.23	0.93	0.07	13.55	4.17	3.82	0.05
11.00	1.26	0.95	0.07	13.60	4.18	3.83	0.05
11.05	1.28	0.97	0.07	13.65	4.19	3.84	0.04
11.10	1.30	0.99	0.08	13.70	4.20	3.85	0.04
11.15	1.33	1.02	0.08	13.75	4.22	3.87	0.04
11.20	1.35	1.04	0.09	13.80	4.23	3.88	0.04
11.25	1.38	1.07	0.09	13.85	4.24	3.89	0.04
11.30	1.41	1.10	0.10	13.90	4.25	3.90	0.04
11.35	1.45	1.13	0.10	13.95	4.26	3.91	0.04
11.40	1.48	1.16	0.11	14.00	4.28	3.93	0.04
11.45	1.51	1.19	0.11	14.05	4.29	3.94	0.04
11.50	1.55	1.23	0.11	14.10	4.30	3.95	0.04
11.55	1.60	1.28	0.15	14.15	4.31	3.96	0.04
11.60	1.65	1.33	0.17	14.20	4.32	3.97	0.04
11.65	1.71	1.38	0.18	14.25	4.33	3.98	0.04
11.70	1.76	1.44	0.19	14.30	4.34	3.99	0.04
11.75	1.84	1.51	0.23	14.35	4.35	4.00	0.03
11.80	1.92	1.59	0.25	14.40	4.36	4.01	0.03
11.85	2.02	1.69	0.32	14.45	4.37	4.02	0.03
11.90	2.13	1.80	0.35	14.50	4.38	4.03	0.03
11.95	2.31	1.98	0.52	14.55	4.39	4.04	0.03
12.00	2.49	2.16	0.60	14.60	4.40	4.05	0.03
12.05	2.80	2.46	0.88	14.65	4.41	4.06	0.03
12.10	3.10	2.76	**1.00**	14.70	4.42	4.07	0.03
12.15	3.21	2.87	0.61	14.75	4.43	4.08	0.03
12.20	3.31	2.97	0.42	14.80	4.43	4.08	0.03
12.25	3.39	3.05	0.31	14.85	4.44	4.09	0.03
12.30	3.47	3.12	0.27	14.90	4.45	4.10	0.03
12.35	3.52	3.18	0.22	14.95	4.46	4.11	0.03
12.40	3.58	3.23	0.20	15.00	4.47	4.12	0.03
12.45	3.63	3.29	0.18	15.05	4.47	4.12	0.03
12.50	3.68	3.34	0.18	15.10	4.48	4.13	0.03
12.55	3.72	3.37	0.14	15.15	4.49	4.14	0.02
12.60	3.75	3.41	0.12	15.20	4.50	4.14	0.02
12.65	3.78	3.44	0.11	15.25	4.50	4.15	0.02
12.70	3.82	3.47	0.11	15.30	4.51	4.16	0.02
12.75	3.85	3.50	0.10	15.35	4.52	4.17	0.02
12.80	3.88	3.53	0.10	15.40	4.52	4.17	0.02
12.85	3.90	3.55	0.09	15.45	4.53	4.18	0.02
12.90	3.93	3.58	0.09	15.50	4.54	4.19	0.02
12.95	3.95	3.60	0.08	15.55	4.54	4.19	0.02

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	4.55	4.20	0.02	18.20	4.83	4.48	0.01
15.65	4.56	4.21	0.02	18.25	4.84	4.48	0.01
15.70	4.56	4.21	0.02	18.30	4.84	4.49	0.01
15.75	4.57	4.22	0.02	18.35	4.84	4.49	0.01
15.80	4.58	4.23	0.02	18.40	4.85	4.50	0.01
15.85	4.58	4.23	0.02	18.45	4.85	4.50	0.01
15.90	4.59	4.24	0.02	18.50	4.86	4.50	0.01
15.95	4.60	4.25	0.02	18.55	4.86	4.51	0.01
16.00	4.60	4.25	0.02	18.60	4.87	4.51	0.01
16.05	4.61	4.26	0.02	18.65	4.87	4.52	0.01
16.10	4.62	4.26	0.02	18.70	4.87	4.52	0.01
16.15	4.62	4.27	0.02	18.75	4.88	4.52	0.01
16.20	4.63	4.28	0.02	18.80	4.88	4.53	0.01
16.25	4.63	4.28	0.02	18.85	4.89	4.53	0.01
16.30	4.64	4.29	0.02	18.90	4.89	4.54	0.01
16.35	4.65	4.29	0.02	18.95	4.89	4.54	0.01
16.40	4.65	4.30	0.02	19.00	4.90	4.54	0.01
16.45	4.66	4.31	0.02	19.05	4.90	4.55	0.01
16.50	4.66	4.31	0.02	19.10	4.91	4.55	0.01
16.55	4.67	4.32	0.02	19.15	4.91	4.56	0.01
16.60	4.68	4.32	0.02	19.20	4.91	4.56	0.01
16.65	4.68	4.33	0.02	19.25	4.92	4.56	0.01
16.70	4.69	4.34	0.02	19.30	4.92	4.57	0.01
16.75	4.69	4.34	0.02	19.35	4.92	4.57	0.01
16.80	4.70	4.35	0.02	19.40	4.93	4.58	0.01
16.85	4.70	4.35	0.02	19.45	4.93	4.58	0.01
16.90	4.71	4.36	0.02	19.50	4.94	4.58	0.01
16.95	4.71	4.36	0.02	19.55	4.94	4.59	0.01
17.00	4.72	4.37	0.02	19.60	4.94	4.59	0.01
17.05	4.73	4.37	0.02	19.65	4.95	4.60	0.01
17.10	4.73	4.38	0.02	19.70	4.95	4.60	0.01
17.15	4.74	4.38	0.02	19.75	4.96	4.60	0.01
17.20	4.74	4.39	0.02	19.80	4.96	4.61	0.01
17.25	4.75	4.39	0.02	19.85	4.96	4.61	0.01
17.30	4.75	4.40	0.02	19.90	4.97	4.61	0.01
17.35	4.76	4.40	0.02	19.95	4.97	4.62	0.01
17.40	4.76	4.41	0.02	20.00	4.97	4.62	0.01
17.45	4.77	4.41	0.02	20.05	4.98	4.62	0.01
17.50	4.77	4.42	0.02	20.10	4.98	4.63	0.01
17.55	4.78	4.42	0.02	20.15	4.99	4.63	0.01
17.60	4.78	4.43	0.02	20.20	4.99	4.64	0.01
17.65	4.78	4.43	0.02	20.25	4.99	4.64	0.01
17.70	4.79	4.44	0.02	20.30	5.00	4.64	0.01
17.75	4.79	4.44	0.02	20.35	5.00	4.65	0.01
17.80	4.80	4.45	0.02	20.40	5.00	4.65	0.01
17.85	4.80	4.45	0.02	20.45	5.01	4.65	0.01
17.90	4.81	4.45	0.02	20.50	5.01	4.66	0.01
17.95	4.81	4.46	0.01	20.55	5.01	4.66	0.01
18.00	4.82	4.46	0.01	20.60	5.02	4.66	0.01
18.05	4.82	4.47	0.01	20.65	5.02	4.67	0.01
18.10	4.82	4.47	0.01	20.70	5.02	4.67	0.01
18.15	4.83	4.48	0.01	20.75	5.03	4.68	0.01

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.03	4.68	0.01	23.40	5.20	4.84	0.01
20.85	5.04	4.68	0.01	23.45	5.20	4.85	0.01
20.90	5.04	4.69	0.01	23.50	5.20	4.85	0.01
20.95	5.04	4.69	0.01	23.55	5.20	4.85	0.01
21.00	5.05	4.69	0.01	23.60	5.21	4.85	0.01
21.05	5.05	4.70	0.01	23.65	5.21	4.86	0.01
21.10	5.05	4.70	0.01	23.70	5.21	4.86	0.01
21.15	5.06	4.70	0.01	23.75	5.22	4.86	0.01
21.20	5.06	4.71	0.01	23.80	5.22	4.86	0.01
21.25	5.06	4.71	0.01	23.85	5.22	4.87	0.01
21.30	5.07	4.71	0.01	23.90	5.22	4.87	0.01
21.35	5.07	4.72	0.01	23.95	5.23	4.87	0.01
21.40	5.07	4.72	0.01	24.00	**5.23**	**4.88**	0.01
21.45	5.08	4.72	0.01				
21.50	5.08	4.73	0.01				
21.55	5.08	4.73	0.01				
21.60	5.09	4.73	0.01				
21.65	5.09	4.74	0.01				
21.70	5.09	4.74	0.01				
21.75	5.10	4.74	0.01				
21.80	5.10	4.75	0.01				
21.85	5.10	4.75	0.01				
21.90	5.11	4.75	0.01				
21.95	5.11	4.76	0.01				
22.00	5.11	4.76	0.01				
22.05	5.11	4.76	0.01				
22.10	5.12	4.76	0.01				
22.15	5.12	4.77	0.01				
22.20	5.12	4.77	0.01				
22.25	5.13	4.77	0.01				
22.30	5.13	4.78	0.01				
22.35	5.13	4.78	0.01				
22.40	5.14	4.78	0.01				
22.45	5.14	4.79	0.01				
22.50	5.14	4.79	0.01				
22.55	5.15	4.79	0.01				
22.60	5.15	4.80	0.01				
22.65	5.15	4.80	0.01				
22.70	5.16	4.80	0.01				
22.75	5.16	4.80	0.01				
22.80	5.16	4.81	0.01				
22.85	5.16	4.81	0.01				
22.90	5.17	4.81	0.01				
22.95	5.17	4.82	0.01				
23.00	5.17	4.82	0.01				
23.05	5.18	4.82	0.01				
23.10	5.18	4.83	0.01				
23.15	5.18	4.83	0.01				
23.20	5.18	4.83	0.01				
23.25	5.19	4.83	0.01				
23.30	5.19	4.84	0.01				
23.35	5.19	4.84	0.01				

Summary for Subcatchment EDA4 PERV: EDA4 PERV

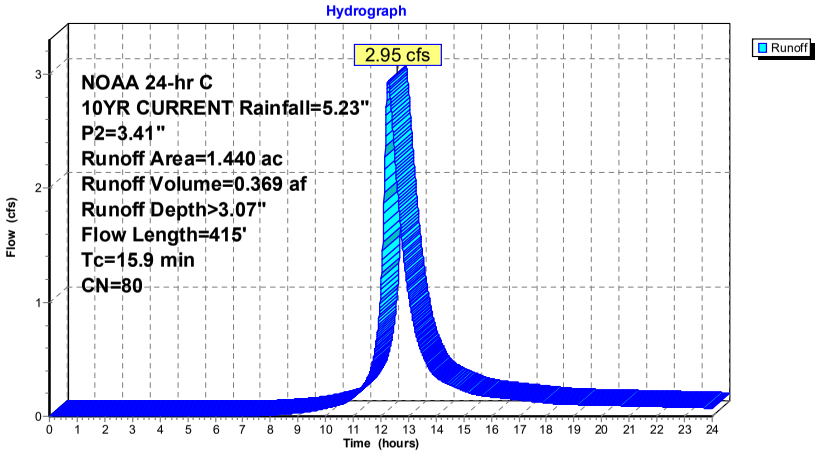
Runoff = 2.95 cfs @ 12.26 hrs, Volume= 0.369 af, Depth> 3.07"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR CURRENT Rainfall=5.23", P2=3.41"

Area (ac)	CN	Description
1.440	80	>75% Grass cover, Good, HSG D
1.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	100	0.0080	0.12		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
1.1	115	0.0140	1.77		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
0.5	100	0.0039	3.22	5.69	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.6	100	0.0020	2.79	8.77	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
15.9	415	Total			

Subcatchment EDA4 PERV: EDA4 PERV



Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.16	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.16	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.16	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.17	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.17	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.17	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.18	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.18	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.18	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.19	0.00	0.00
0.50	0.03	0.00	0.00	3.10	0.19	0.00	0.00
0.55	0.03	0.00	0.00	3.15	0.19	0.00	0.00
0.60	0.03	0.00	0.00	3.20	0.20	0.00	0.00
0.65	0.04	0.00	0.00	3.25	0.20	0.00	0.00
0.70	0.04	0.00	0.00	3.30	0.21	0.00	0.00
0.75	0.04	0.00	0.00	3.35	0.21	0.00	0.00
0.80	0.05	0.00	0.00	3.40	0.21	0.00	0.00
0.85	0.05	0.00	0.00	3.45	0.22	0.00	0.00
0.90	0.05	0.00	0.00	3.50	0.22	0.00	0.00
0.95	0.05	0.00	0.00	3.55	0.22	0.00	0.00
1.00	0.06	0.00	0.00	3.60	0.23	0.00	0.00
1.05	0.06	0.00	0.00	3.65	0.23	0.00	0.00
1.10	0.06	0.00	0.00	3.70	0.23	0.00	0.00
1.15	0.07	0.00	0.00	3.75	0.24	0.00	0.00
1.20	0.07	0.00	0.00	3.80	0.24	0.00	0.00
1.25	0.07	0.00	0.00	3.85	0.24	0.00	0.00
1.30	0.07	0.00	0.00	3.90	0.25	0.00	0.00
1.35	0.08	0.00	0.00	3.95	0.25	0.00	0.00
1.40	0.08	0.00	0.00	4.00	0.26	0.00	0.00
1.45	0.08	0.00	0.00	4.05	0.26	0.00	0.00
1.50	0.09	0.00	0.00	4.10	0.26	0.00	0.00
1.55	0.09	0.00	0.00	4.15	0.27	0.00	0.00
1.60	0.09	0.00	0.00	4.20	0.27	0.00	0.00
1.65	0.10	0.00	0.00	4.25	0.27	0.00	0.00
1.70	0.10	0.00	0.00	4.30	0.28	0.00	0.00
1.75	0.10	0.00	0.00	4.35	0.28	0.00	0.00
1.80	0.11	0.00	0.00	4.40	0.29	0.00	0.00
1.85	0.11	0.00	0.00	4.45	0.29	0.00	0.00
1.90	0.11	0.00	0.00	4.50	0.29	0.00	0.00
1.95	0.12	0.00	0.00	4.55	0.30	0.00	0.00
2.00	0.12	0.00	0.00	4.60	0.30	0.00	0.00
2.05	0.12	0.00	0.00	4.65	0.31	0.00	0.00
2.10	0.12	0.00	0.00	4.70	0.31	0.00	0.00
2.15	0.13	0.00	0.00	4.75	0.31	0.00	0.00
2.20	0.13	0.00	0.00	4.80	0.32	0.00	0.00
2.25	0.13	0.00	0.00	4.85	0.32	0.00	0.00
2.30	0.14	0.00	0.00	4.90	0.32	0.00	0.00
2.35	0.14	0.00	0.00	4.95	0.33	0.00	0.00
2.40	0.14	0.00	0.00	5.00	0.33	0.00	0.00
2.45	0.15	0.00	0.00	5.05	0.34	0.00	0.00
2.50	0.15	0.00	0.00	5.10	0.34	0.00	0.00
2.55	0.15	0.00	0.00	5.15	0.34	0.00	0.00

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.35	0.00	0.00	7.80	0.60	0.00	0.01
5.25	0.35	0.00	0.00	7.85	0.61	0.00	0.01
5.30	0.36	0.00	0.00	7.90	0.61	0.00	0.01
5.35	0.36	0.00	0.00	7.95	0.62	0.01	0.01
5.40	0.36	0.00	0.00	8.00	0.63	0.01	0.01
5.45	0.37	0.00	0.00	8.05	0.63	0.01	0.01
5.50	0.37	0.00	0.00	8.10	0.64	0.01	0.01
5.55	0.38	0.00	0.00	8.15	0.65	0.01	0.01
5.60	0.38	0.00	0.00	8.20	0.65	0.01	0.01
5.65	0.39	0.00	0.00	8.25	0.66	0.01	0.01
5.70	0.39	0.00	0.00	8.30	0.67	0.01	0.02
5.75	0.39	0.00	0.00	8.35	0.67	0.01	0.02
5.80	0.40	0.00	0.00	8.40	0.68	0.01	0.02
5.85	0.40	0.00	0.00	8.45	0.69	0.01	0.02
5.90	0.41	0.00	0.00	8.50	0.69	0.01	0.02
5.95	0.41	0.00	0.00	8.55	0.70	0.01	0.02
6.00	0.41	0.00	0.00	8.60	0.71	0.02	0.02
6.05	0.42	0.00	0.00	8.65	0.71	0.02	0.02
6.10	0.42	0.00	0.00	8.70	0.72	0.02	0.02
6.15	0.43	0.00	0.00	8.75	0.73	0.02	0.02
6.20	0.43	0.00	0.00	8.80	0.73	0.02	0.03
6.25	0.44	0.00	0.00	8.85	0.74	0.02	0.03
6.30	0.44	0.00	0.00	8.90	0.75	0.02	0.03
6.35	0.45	0.00	0.00	8.95	0.76	0.02	0.03
6.40	0.45	0.00	0.00	9.00	0.76	0.03	0.03
6.45	0.45	0.00	0.00	9.05	0.77	0.03	0.03
6.50	0.46	0.00	0.00	9.10	0.78	0.03	0.03
6.55	0.46	0.00	0.00	9.15	0.79	0.03	0.03
6.60	0.47	0.00	0.00	9.20	0.80	0.03	0.03
6.65	0.47	0.00	0.00	9.25	0.80	0.03	0.04
6.70	0.48	0.00	0.00	9.30	0.81	0.03	0.04
6.75	0.48	0.00	0.00	9.35	0.82	0.04	0.04
6.80	0.49	0.00	0.00	9.40	0.83	0.04	0.04
6.85	0.49	0.00	0.00	9.45	0.84	0.04	0.04
6.90	0.50	0.00	0.00	9.50	0.85	0.04	0.05
6.95	0.50	0.00	0.00	9.55	0.86	0.04	0.05
7.00	0.51	0.00	0.00	9.60	0.87	0.05	0.05
7.05	0.52	0.00	0.00	9.65	0.88	0.05	0.05
7.10	0.52	0.00	0.00	9.70	0.89	0.05	0.05
7.15	0.53	0.00	0.00	9.75	0.90	0.05	0.06
7.20	0.53	0.00	0.00	9.80	0.91	0.06	0.06
7.25	0.54	0.00	0.00	9.85	0.92	0.06	0.06
7.30	0.54	0.00	0.00	9.90	0.93	0.06	0.06
7.35	0.55	0.00	0.00	9.95	0.94	0.07	0.07
7.40	0.55	0.00	0.00	10.00	0.95	0.07	0.07
7.45	0.56	0.00	0.00	10.05	0.97	0.07	0.07
7.50	0.57	0.00	0.00	10.10	0.98	0.08	0.08
7.55	0.57	0.00	0.00	10.15	0.99	0.08	0.08
7.60	0.58	0.00	0.00	10.20	1.00	0.08	0.08
7.65	0.58	0.00	0.01	10.25	1.01	0.09	0.08
7.70	0.59	0.00	0.01	10.30	1.03	0.09	0.09
7.75	0.60	0.00	0.01	10.35	1.04	0.10	0.09

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.05	0.10	0.09	13.00	3.97	2.02	1.07
10.45	1.06	0.10	0.10	13.05	4.00	2.04	0.99
10.50	1.08	0.11	0.10	13.10	4.02	2.06	0.92
10.55	1.09	0.11	0.11	13.15	4.04	2.07	0.86
10.60	1.11	0.12	0.11	13.20	4.05	2.09	0.80
10.65	1.12	0.12	0.11	13.25	4.07	2.10	0.74
10.70	1.14	0.13	0.12	13.30	4.09	2.12	0.69
10.75	1.16	0.14	0.13	13.35	4.11	2.13	0.65
10.80	1.18	0.14	0.13	13.40	4.12	2.14	0.61
10.85	1.19	0.15	0.14	13.45	4.14	2.16	0.58
10.90	1.21	0.16	0.15	13.50	4.15	2.17	0.55
10.95	1.23	0.17	0.16	13.55	4.17	2.18	0.52
11.00	1.26	0.18	0.17	13.60	4.18	2.19	0.49
11.05	1.28	0.18	0.18	13.65	4.19	2.20	0.47
11.10	1.30	0.19	0.19	13.70	4.20	2.21	0.44
11.15	1.33	0.21	0.20	13.75	4.22	2.22	0.42
11.20	1.35	0.22	0.21	13.80	4.23	2.23	0.40
11.25	1.38	0.23	0.23	13.85	4.24	2.24	0.38
11.30	1.41	0.24	0.25	13.90	4.25	2.25	0.37
11.35	1.45	0.26	0.26	13.95	4.26	2.26	0.36
11.40	1.48	0.27	0.28	14.00	4.28	2.27	0.35
11.45	1.51	0.29	0.30	14.05	4.29	2.28	0.34
11.50	1.55	0.31	0.33	14.10	4.30	2.29	0.33
11.55	1.60	0.34	0.35	14.15	4.31	2.30	0.32
11.60	1.65	0.36	0.38	14.20	4.32	2.31	0.31
11.65	1.71	0.39	0.42	14.25	4.33	2.32	0.30
11.70	1.76	0.42	0.48	14.30	4.34	2.33	0.30
11.75	1.84	0.47	0.54	14.35	4.35	2.34	0.29
11.80	1.92	0.51	0.60	14.40	4.36	2.34	0.29
11.85	2.02	0.58	0.68	14.45	4.37	2.35	0.28
11.90	2.13	0.64	0.78	14.50	4.38	2.36	0.27
11.95	2.31	0.76	0.92	14.55	4.39	2.37	0.27
12.00	2.49	0.88	1.11	14.60	4.40	2.38	0.26
12.05	2.80	1.10	1.38	14.65	4.41	2.38	0.26
12.10	3.10	1.33	1.78	14.70	4.42	2.39	0.25
12.15	3.21	1.41	2.27	14.75	4.43	2.40	0.25
12.20	3.31	1.49	2.71	14.80	4.43	2.41	0.24
12.25	3.39	1.55	**2.93**	14.85	4.44	2.41	0.24
12.30	3.47	1.61	**2.91**	14.90	4.45	2.42	0.23
12.35	3.52	1.65	2.78	14.95	4.46	2.43	0.23
12.40	3.58	1.70	2.63	15.00	4.47	2.43	0.22
12.45	3.63	1.74	2.46	15.05	4.47	2.44	0.22
12.50	3.68	1.78	2.29	15.10	4.48	2.45	0.21
12.55	3.72	1.81	2.14	15.15	4.49	2.45	0.21
12.60	3.75	1.84	1.99	15.20	4.50	2.46	0.21
12.65	3.78	1.87	1.85	15.25	4.50	2.46	0.20
12.70	3.82	1.89	1.70	15.30	4.51	2.47	0.20
12.75	3.85	1.92	1.56	15.35	4.52	2.48	0.19
12.80	3.88	1.94	1.44	15.40	4.52	2.48	0.19
12.85	3.90	1.96	1.34	15.45	4.53	2.49	0.19
12.90	3.93	1.98	1.24	15.50	4.54	2.49	0.19
12.95	3.95	2.00	1.15	15.55	4.54	2.50	0.18

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	4.55	2.51	0.18	18.20	4.83	2.75	0.11
15.65	4.56	2.51	0.18	18.25	4.84	2.75	0.11
15.70	4.56	2.52	0.18	18.30	4.84	2.75	0.11
15.75	4.57	2.52	0.18	18.35	4.84	2.76	0.11
15.80	4.58	2.53	0.17	18.40	4.85	2.76	0.11
15.85	4.58	2.53	0.17	18.45	4.85	2.77	0.11
15.90	4.59	2.54	0.17	18.50	4.86	2.77	0.11
15.95	4.60	2.54	0.17	18.55	4.86	2.77	0.11
16.00	4.60	2.55	0.17	18.60	4.87	2.78	0.11
16.05	4.61	2.56	0.17	18.65	4.87	2.78	0.11
16.10	4.62	2.56	0.17	18.70	4.87	2.78	0.11
16.15	4.62	2.57	0.16	18.75	4.88	2.79	0.10
16.20	4.63	2.57	0.16	18.80	4.88	2.79	0.10
16.25	4.63	2.58	0.16	18.85	4.89	2.79	0.10
16.30	4.64	2.58	0.16	18.90	4.89	2.80	0.10
16.35	4.65	2.59	0.16	18.95	4.89	2.80	0.10
16.40	4.65	2.59	0.16	19.00	4.90	2.80	0.10
16.45	4.66	2.60	0.16	19.05	4.90	2.81	0.10
16.50	4.66	2.60	0.16	19.10	4.91	2.81	0.10
16.55	4.67	2.61	0.15	19.15	4.91	2.81	0.10
16.60	4.68	2.61	0.15	19.20	4.91	2.82	0.10
16.65	4.68	2.62	0.15	19.25	4.92	2.82	0.10
16.70	4.69	2.62	0.15	19.30	4.92	2.82	0.10
16.75	4.69	2.63	0.15	19.35	4.92	2.83	0.10
16.80	4.70	2.63	0.15	19.40	4.93	2.83	0.10
16.85	4.70	2.64	0.15	19.45	4.93	2.83	0.10
16.90	4.71	2.64	0.15	19.50	4.94	2.84	0.10
16.95	4.71	2.65	0.14	19.55	4.94	2.84	0.10
17.00	4.72	2.65	0.14	19.60	4.94	2.84	0.10
17.05	4.73	2.65	0.14	19.65	4.95	2.85	0.10
17.10	4.73	2.66	0.14	19.70	4.95	2.85	0.10
17.15	4.74	2.66	0.14	19.75	4.96	2.85	0.10
17.20	4.74	2.67	0.14	19.80	4.96	2.86	0.10
17.25	4.75	2.67	0.14	19.85	4.96	2.86	0.10
17.30	4.75	2.68	0.14	19.90	4.97	2.86	0.10
17.35	4.76	2.68	0.13	19.95	4.97	2.87	0.10
17.40	4.76	2.69	0.13	20.00	4.97	2.87	0.10
17.45	4.77	2.69	0.13	20.05	4.98	2.87	0.10
17.50	4.77	2.69	0.13	20.10	4.98	2.88	0.10
17.55	4.78	2.70	0.13	20.15	4.99	2.88	0.10
17.60	4.78	2.70	0.13	20.20	4.99	2.88	0.10
17.65	4.78	2.71	0.13	20.25	4.99	2.89	0.09
17.70	4.79	2.71	0.13	20.30	5.00	2.89	0.09
17.75	4.79	2.71	0.12	20.35	5.00	2.89	0.09
17.80	4.80	2.72	0.12	20.40	5.00	2.90	0.09
17.85	4.80	2.72	0.12	20.45	5.01	2.90	0.09
17.90	4.81	2.73	0.12	20.50	5.01	2.90	0.09
17.95	4.81	2.73	0.12	20.55	5.01	2.91	0.09
18.00	4.82	2.73	0.12	20.60	5.02	2.91	0.09
18.05	4.82	2.74	0.12	20.65	5.02	2.91	0.09
18.10	4.82	2.74	0.12	20.70	5.02	2.91	0.09
18.15	4.83	2.74	0.11	20.75	5.03	2.92	0.09

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

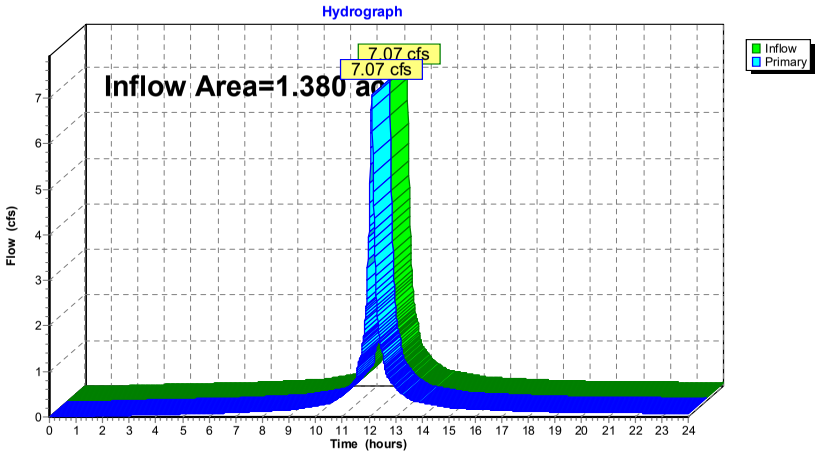
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.03	2.92	0.09	23.40	5.20	3.06	0.07
20.85	5.04	2.92	0.09	23.45	5.20	3.07	0.07
20.90	5.04	2.93	0.09	23.50	5.20	3.07	0.07
20.95	5.04	2.93	0.09	23.55	5.20	3.07	0.07
21.00	5.05	2.93	0.09	23.60	5.21	3.07	0.07
21.05	5.05	2.94	0.09	23.65	5.21	3.08	0.07
21.10	5.05	2.94	0.09	23.70	5.21	3.08	0.07
21.15	5.06	2.94	0.09	23.75	5.22	3.08	0.07
21.20	5.06	2.94	0.09	23.80	5.22	3.08	0.07
21.25	5.06	2.95	0.09	23.85	5.22	3.09	0.07
21.30	5.07	2.95	0.09	23.90	5.22	3.09	0.07
21.35	5.07	2.95	0.09	23.95	5.23	3.09	0.07
21.40	5.07	2.96	0.09	24.00	**5.23**	**3.09**	0.07
21.45	5.08	2.96	0.09				
21.50	5.08	2.96	0.09				
21.55	5.08	2.97	0.09				
21.60	5.09	2.97	0.09				
21.65	5.09	2.97	0.09				
21.70	5.09	2.97	0.09				
21.75	5.10	2.98	0.09				
21.80	5.10	2.98	0.08				
21.85	5.10	2.98	0.08				
21.90	5.11	2.98	0.08				
21.95	5.11	2.99	0.08				
22.00	5.11	2.99	0.08				
22.05	5.11	2.99	0.08				
22.10	5.12	3.00	0.08				
22.15	5.12	3.00	0.08				
22.20	5.12	3.00	0.08				
22.25	5.13	3.00	0.08				
22.30	5.13	3.01	0.08				
22.35	5.13	3.01	0.08				
22.40	5.14	3.01	0.08				
22.45	5.14	3.02	0.08				
22.50	5.14	3.02	0.08				
22.55	5.15	3.02	0.08				
22.60	5.15	3.02	0.08				
22.65	5.15	3.03	0.08				
22.70	5.16	3.03	0.08				
22.75	5.16	3.03	0.08				
22.80	5.16	3.03	0.08				
22.85	5.16	3.04	0.08				
22.90	5.17	3.04	0.08				
22.95	5.17	3.04	0.08				
23.00	5.17	3.04	0.08				
23.05	5.18	3.05	0.08				
23.10	5.18	3.05	0.08				
23.15	5.18	3.05	0.08				
23.20	5.18	3.05	0.08				
23.25	5.19	3.06	0.08				
23.30	5.19	3.06	0.08				
23.35	5.19	3.06	0.07				

Summary for Link E1A: E1A

Inflow Area = 1.380 ac, 54.35% Impervious, Inflow Depth > 4.51" for 10YR CURRENT event
Inflow = 7.07 cfs @ 12.11 hrs, Volume= 0.519 af
Primary = 7.07 cfs @ 12.11 hrs, Volume= 0.519 af, Atten= 0%, Lag= 0.0 min
Routed to Link EPOI-1 : EPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link E1A: E1A



Hydrograph for Link E1A: E1A

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.03	0.00	0.03
0.05	0.00	0.00	0.00	2.65	0.03	0.00	0.03
0.10	0.00	0.00	0.00	2.70	0.03	0.00	0.03
0.15	0.00	0.00	0.00	2.75	0.03	0.00	0.03
0.20	0.00	0.00	0.00	2.80	0.03	0.00	0.03
0.25	0.00	0.00	0.00	2.85	0.03	0.00	0.03
0.30	0.00	0.00	0.00	2.90	0.03	0.00	0.03
0.35	0.00	0.00	0.00	2.95	0.04	0.00	0.04
0.40	0.00	0.00	0.00	3.00	0.04	0.00	0.04
0.45	0.00	0.00	0.00	3.05	0.04	0.00	0.04
0.50	0.00	0.00	0.00	3.10	0.04	0.00	0.04
0.55	0.00	0.00	0.00	3.15	0.04	0.00	0.04
0.60	0.00	0.00	0.00	3.20	0.04	0.00	0.04
0.65	0.00	0.00	0.00	3.25	0.04	0.00	0.04
0.70	0.00	0.00	0.00	3.30	0.04	0.00	0.04
0.75	0.00	0.00	0.00	3.35	0.04	0.00	0.04
0.80	0.00	0.00	0.00	3.40	0.04	0.00	0.04
0.85	0.00	0.00	0.00	3.45	0.04	0.00	0.04
0.90	0.00	0.00	0.00	3.50	0.04	0.00	0.04
0.95	0.00	0.00	0.00	3.55	0.04	0.00	0.04
1.00	0.00	0.00	0.00	3.60	0.04	0.00	0.04
1.05	0.00	0.00	0.00	3.65	0.05	0.00	0.05
1.10	0.00	0.00	0.00	3.70	0.05	0.00	0.05
1.15	0.00	0.00	0.00	3.75	0.05	0.00	0.05
1.20	0.00	0.00	0.00	3.80	0.05	0.00	0.05
1.25	0.00	0.00	0.00	3.85	0.05	0.00	0.05
1.30	0.00	0.00	0.00	3.90	0.05	0.00	0.05
1.35	0.00	0.00	0.00	3.95	0.05	0.00	0.05
1.40	0.01	0.00	0.01	4.00	0.05	0.00	0.05
1.45	0.01	0.00	0.01	4.05	0.05	0.00	0.05
1.50	0.01	0.00	0.01	4.10	0.05	0.00	0.05
1.55	0.01	0.00	0.01	4.15	0.05	0.00	0.05
1.60	0.01	0.00	0.01	4.20	0.05	0.00	0.05
1.65	0.01	0.00	0.01	4.25	0.05	0.00	0.05
1.70	0.01	0.00	0.01	4.30	0.05	0.00	0.05
1.75	0.01	0.00	0.01	4.35	0.05	0.00	0.05
1.80	0.01	0.00	0.01	4.40	0.06	0.00	0.06
1.85	0.02	0.00	0.02	4.45	0.06	0.00	0.06
1.90	0.02	0.00	0.02	4.50	0.06	0.00	0.06
1.95	0.02	0.00	0.02	4.55	0.06	0.00	0.06
2.00	0.02	0.00	0.02	4.60	0.06	0.00	0.06
2.05	0.02	0.00	0.02	4.65	0.06	0.00	0.06
2.10	0.02	0.00	0.02	4.70	0.06	0.00	0.06
2.15	0.02	0.00	0.02	4.75	0.06	0.00	0.06
2.20	0.02	0.00	0.02	4.80	0.06	0.00	0.06
2.25	0.02	0.00	0.02	4.85	0.06	0.00	0.06
2.30	0.02	0.00	0.02	4.90	0.06	0.00	0.06
2.35	0.03	0.00	0.03	4.95	0.06	0.00	0.06
2.40	0.03	0.00	0.03	5.00	0.06	0.00	0.06
2.45	0.03	0.00	0.03	5.05	0.06	0.00	0.06
2.50	0.03	0.00	0.03	5.10	0.06	0.00	0.06
2.55	0.03	0.00	0.03	5.15	0.06	0.00	0.06

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.06	0.00	0.06	7.80	0.12	0.00	0.12
5.25	0.06	0.00	0.06	7.85	0.12	0.00	0.12
5.30	0.07	0.00	0.07	7.90	0.12	0.00	0.12
5.35	0.07	0.00	0.07	7.95	0.12	0.00	0.12
5.40	0.07	0.00	0.07	8.00	0.12	0.00	0.12
5.45	0.07	0.00	0.07	8.05	0.13	0.00	0.13
5.50	0.07	0.00	0.07	8.10	0.13	0.00	0.13
5.55	0.07	0.00	0.07	8.15	0.13	0.00	0.13
5.60	0.07	0.00	0.07	8.20	0.13	0.00	0.13
5.65	0.07	0.00	0.07	8.25	0.13	0.00	0.13
5.70	0.07	0.00	0.07	8.30	0.13	0.00	0.13
5.75	0.07	0.00	0.07	8.35	0.13	0.00	0.13
5.80	0.07	0.00	0.07	8.40	0.14	0.00	0.14
5.85	0.07	0.00	0.07	8.45	0.14	0.00	0.14
5.90	0.07	0.00	0.07	8.50	0.14	0.00	0.14
5.95	0.07	0.00	0.07	8.55	0.14	0.00	0.14
6.00	0.07	0.00	0.07	8.60	0.14	0.00	0.14
6.05	0.07	0.00	0.07	8.65	0.14	0.00	0.14
6.10	0.07	0.00	0.07	8.70	0.14	0.00	0.14
6.15	0.08	0.00	0.08	8.75	0.15	0.00	0.15
6.20	0.08	0.00	0.08	8.80	0.15	0.00	0.15
6.25	0.08	0.00	0.08	8.85	0.15	0.00	0.15
6.30	0.08	0.00	0.08	8.90	0.15	0.00	0.15
6.35	0.08	0.00	0.08	8.95	0.15	0.00	0.15
6.40	0.08	0.00	0.08	9.00	0.15	0.00	0.15
6.45	0.08	0.00	0.08	9.05	0.16	0.00	0.16
6.50	0.08	0.00	0.08	9.10	0.16	0.00	0.16
6.55	0.09	0.00	0.09	9.15	0.17	0.00	0.17
6.60	0.09	0.00	0.09	9.20	0.17	0.00	0.17
6.65	0.09	0.00	0.09	9.25	0.17	0.00	0.17
6.70	0.09	0.00	0.09	9.30	0.18	0.00	0.18
6.75	0.09	0.00	0.09	9.35	0.18	0.00	0.18
6.80	0.09	0.00	0.09	9.40	0.19	0.00	0.19
6.85	0.09	0.00	0.09	9.45	0.19	0.00	0.19
6.90	0.09	0.00	0.09	9.50	0.20	0.00	0.20
6.95	0.09	0.00	0.09	9.55	0.20	0.00	0.20
7.00	0.10	0.00	0.10	9.60	0.21	0.00	0.21
7.05	0.10	0.00	0.10	9.65	0.21	0.00	0.21
7.10	0.10	0.00	0.10	9.70	0.22	0.00	0.22
7.15	0.10	0.00	0.10	9.75	0.22	0.00	0.22
7.20	0.10	0.00	0.10	9.80	0.23	0.00	0.23
7.25	0.10	0.00	0.10	9.85	0.23	0.00	0.23
7.30	0.10	0.00	0.10	9.90	0.24	0.00	0.24
7.35	0.11	0.00	0.11	9.95	0.24	0.00	0.24
7.40	0.11	0.00	0.11	10.00	0.25	0.00	0.25
7.45	0.11	0.00	0.11	10.05	0.25	0.00	0.25
7.50	0.11	0.00	0.11	10.10	0.26	0.00	0.26
7.55	0.11	0.00	0.11	10.15	0.26	0.00	0.26
7.60	0.11	0.00	0.11	10.20	0.27	0.00	0.27
7.65	0.11	0.00	0.11	10.25	0.27	0.00	0.27
7.70	0.12	0.00	0.12	10.30	0.28	0.00	0.28
7.75	0.12	0.00	0.12	10.35	0.28	0.00	0.28

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.29	0.00	0.29	13.00	0.65	0.00	0.65
10.45	0.29	0.00	0.29	13.05	0.61	0.00	0.61
10.50	0.30	0.00	0.30	13.10	0.58	0.00	0.58
10.55	0.31	0.00	0.31	13.15	0.55	0.00	0.55
10.60	0.33	0.00	0.33	13.20	0.53	0.00	0.53
10.65	0.35	0.00	0.35	13.25	0.51	0.00	0.51
10.70	0.36	0.00	0.36	13.30	0.49	0.00	0.49
10.75	0.38	0.00	0.38	13.35	0.47	0.00	0.47
10.80	0.40	0.00	0.40	13.40	0.45	0.00	0.45
10.85	0.42	0.00	0.42	13.45	0.43	0.00	0.43
10.90	0.44	0.00	0.44	13.50	0.41	0.00	0.41
10.95	0.46	0.00	0.46	13.55	0.39	0.00	0.39
11.00	0.47	0.00	0.47	13.60	0.37	0.00	0.37
11.05	0.51	0.00	0.51	13.65	0.36	0.00	0.36
11.10	0.53	0.00	0.53	13.70	0.35	0.00	0.35
11.15	0.57	0.00	0.57	13.75	0.34	0.00	0.34
11.20	0.60	0.00	0.60	13.80	0.34	0.00	0.34
11.25	0.64	0.00	0.64	13.85	0.33	0.00	0.33
11.30	0.67	0.00	0.67	13.90	0.33	0.00	0.33
11.35	0.71	0.00	0.71	13.95	0.32	0.00	0.32
11.40	0.75	0.00	0.75	14.00	0.32	0.00	0.32
11.45	0.78	0.00	0.78	14.05	0.31	0.00	0.31
11.50	0.81	0.00	0.81	14.10	0.31	0.00	0.31
11.55	0.98	0.00	0.98	14.15	0.30	0.00	0.30
11.60	1.16	0.00	1.16	14.20	0.30	0.00	0.30
11.65	1.26	0.00	1.26	14.25	0.29	0.00	0.29
11.70	1.33	0.00	1.33	14.30	0.28	0.00	0.28
11.75	1.54	0.00	1.54	14.35	0.28	0.00	0.28
11.80	1.75	0.00	1.75	14.40	0.27	0.00	0.27
11.85	2.10	0.00	2.10	14.45	0.27	0.00	0.27
11.90	2.43	0.00	2.43	14.50	0.26	0.00	0.26
11.95	3.26	0.00	3.26	14.55	0.26	0.00	0.26
12.00	4.07	0.00	4.07	14.60	0.25	0.00	0.25
12.05	5.55	0.00	5.55	14.65	0.25	0.00	0.25
12.10	**6.92**	0.00	**6.92**	14.70	0.24	0.00	0.24
12.15	**5.76**	0.00	**5.76**	14.75	0.24	0.00	0.24
12.20	4.12	0.00	4.12	14.80	0.23	0.00	0.23
12.25	3.10	0.00	3.10	14.85	0.23	0.00	0.23
12.30	2.45	0.00	2.45	14.90	0.22	0.00	0.22
12.35	2.00	0.00	2.00	14.95	0.22	0.00	0.22
12.40	1.69	0.00	1.69	15.00	0.21	0.00	0.21
12.45	1.53	0.00	1.53	15.05	0.21	0.00	0.21
12.50	1.45	0.00	1.45	15.10	0.20	0.00	0.20
12.55	1.25	0.00	1.25	15.15	0.20	0.00	0.20
12.60	1.06	0.00	1.06	15.20	0.20	0.00	0.20
12.65	0.95	0.00	0.95	15.25	0.19	0.00	0.19
12.70	0.89	0.00	0.89	15.30	0.19	0.00	0.19
12.75	0.84	0.00	0.84	15.35	0.19	0.00	0.19
12.80	0.80	0.00	0.80	15.40	0.19	0.00	0.19
12.85	0.76	0.00	0.76	15.45	0.19	0.00	0.19
12.90	0.73	0.00	0.73	15.50	0.19	0.00	0.19
12.95	0.69	0.00	0.69	15.55	0.19	0.00	0.19

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.18	0.00	0.18	18.20	0.11	0.00	0.11
15.65	0.18	0.00	0.18	18.25	0.11	0.00	0.11
15.70	0.18	0.00	0.18	18.30	0.11	0.00	0.11
15.75	0.18	0.00	0.18	18.35	0.11	0.00	0.11
15.80	0.18	0.00	0.18	18.40	0.11	0.00	0.11
15.85	0.18	0.00	0.18	18.45	0.11	0.00	0.11
15.90	0.18	0.00	0.18	18.50	0.11	0.00	0.11
15.95	0.17	0.00	0.17	18.55	0.11	0.00	0.11
16.00	0.17	0.00	0.17	18.60	0.11	0.00	0.11
16.05	0.17	0.00	0.17	18.65	0.11	0.00	0.11
16.10	0.17	0.00	0.17	18.70	0.11	0.00	0.11
16.15	0.17	0.00	0.17	18.75	0.11	0.00	0.11
16.20	0.17	0.00	0.17	18.80	0.11	0.00	0.11
16.25	0.17	0.00	0.17	18.85	0.11	0.00	0.11
16.30	0.16	0.00	0.16	18.90	0.11	0.00	0.11
16.35	0.16	0.00	0.16	18.95	0.11	0.00	0.11
16.40	0.16	0.00	0.16	19.00	0.11	0.00	0.11
16.45	0.16	0.00	0.16	19.05	0.11	0.00	0.11
16.50	0.16	0.00	0.16	19.10	0.11	0.00	0.11
16.55	0.16	0.00	0.16	19.15	0.11	0.00	0.11
16.60	0.16	0.00	0.16	19.20	0.11	0.00	0.11
16.65	0.16	0.00	0.16	19.25	0.11	0.00	0.11
16.70	0.15	0.00	0.15	19.30	0.11	0.00	0.11
16.75	0.15	0.00	0.15	19.35	0.11	0.00	0.11
16.80	0.15	0.00	0.15	19.40	0.10	0.00	0.10
16.85	0.15	0.00	0.15	19.45	0.10	0.00	0.10
16.90	0.15	0.00	0.15	19.50	0.10	0.00	0.10
16.95	0.15	0.00	0.15	19.55	0.10	0.00	0.10
17.00	0.15	0.00	0.15	19.60	0.10	0.00	0.10
17.05	0.14	0.00	0.14	19.65	0.10	0.00	0.10
17.10	0.14	0.00	0.14	19.70	0.10	0.00	0.10
17.15	0.14	0.00	0.14	19.75	0.10	0.00	0.10
17.20	0.14	0.00	0.14	19.80	0.10	0.00	0.10
17.25	0.14	0.00	0.14	19.85	0.10	0.00	0.10
17.30	0.14	0.00	0.14	19.90	0.10	0.00	0.10
17.35	0.14	0.00	0.14	19.95	0.10	0.00	0.10
17.40	0.13	0.00	0.13	20.00	0.10	0.00	0.10
17.45	0.13	0.00	0.13	20.05	0.10	0.00	0.10
17.50	0.13	0.00	0.13	20.10	0.10	0.00	0.10
17.55	0.13	0.00	0.13	20.15	0.10	0.00	0.10
17.60	0.13	0.00	0.13	20.20	0.10	0.00	0.10
17.65	0.13	0.00	0.13	20.25	0.10	0.00	0.10
17.70	0.13	0.00	0.13	20.30	0.10	0.00	0.10
17.75	0.12	0.00	0.12	20.35	0.10	0.00	0.10
17.80	0.12	0.00	0.12	20.40	0.10	0.00	0.10
17.85	0.12	0.00	0.12	20.45	0.10	0.00	0.10
17.90	0.12	0.00	0.12	20.50	0.10	0.00	0.10
17.95	0.12	0.00	0.12	20.55	0.10	0.00	0.10
18.00	0.12	0.00	0.12	20.60	0.10	0.00	0.10
18.05	0.12	0.00	0.12	20.65	0.10	0.00	0.10
18.10	0.11	0.00	0.11	20.70	0.10	0.00	0.10
18.15	0.11	0.00	0.11	20.75	0.10	0.00	0.10

Hydrograph for Link E1A: E1A (continued)

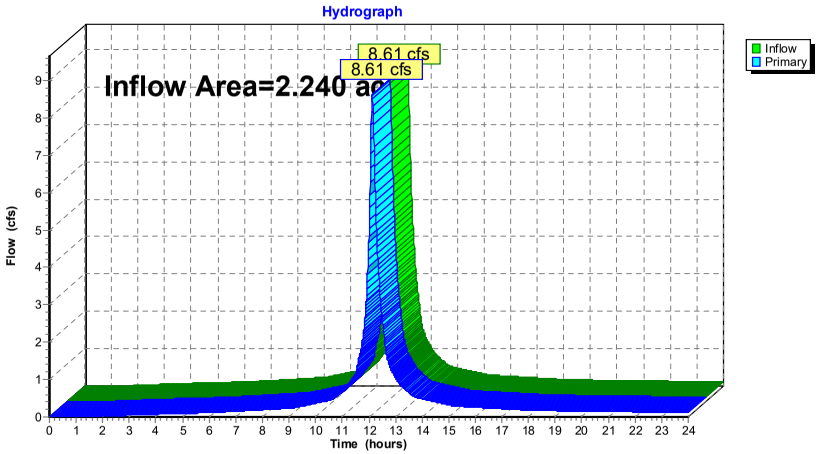
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.10	0.00	0.10	23.40	0.08	0.00	0.08
20.85	0.09	0.00	0.09	23.45	0.08	0.00	0.08
20.90	0.09	0.00	0.09	23.50	0.08	0.00	0.08
20.95	0.09	0.00	0.09	23.55	0.08	0.00	0.08
21.00	0.09	0.00	0.09	23.60	0.08	0.00	0.08
21.05	0.09	0.00	0.09	23.65	0.08	0.00	0.08
21.10	0.09	0.00	0.09	23.70	0.08	0.00	0.08
21.15	0.09	0.00	0.09	23.75	0.07	0.00	0.07
21.20	0.09	0.00	0.09	23.80	0.07	0.00	0.07
21.25	0.09	0.00	0.09	23.85	0.07	0.00	0.07
21.30	0.09	0.00	0.09	23.90	0.07	0.00	0.07
21.35	0.09	0.00	0.09	23.95	0.08	0.00	0.08
21.40	0.09	0.00	0.09	24.00	0.09	0.00	0.09
21.45	0.09	0.00	0.09				
21.50	0.09	0.00	0.09				
21.55	0.09	0.00	0.09				
21.60	0.09	0.00	0.09				
21.65	0.09	0.00	0.09				
21.70	0.09	0.00	0.09				
21.75	0.09	0.00	0.09				
21.80	0.09	0.00	0.09				
21.85	0.09	0.00	0.09				
21.90	0.09	0.00	0.09				
21.95	0.09	0.00	0.09				
22.00	0.09	0.00	0.09				
22.05	0.09	0.00	0.09				
22.10	0.09	0.00	0.09				
22.15	0.09	0.00	0.09				
22.20	0.09	0.00	0.09				
22.25	0.09	0.00	0.09				
22.30	0.08	0.00	0.08				
22.35	0.08	0.00	0.08				
22.40	0.08	0.00	0.08				
22.45	0.08	0.00	0.08				
22.50	0.08	0.00	0.08				
22.55	0.08	0.00	0.08				
22.60	0.08	0.00	0.08				
22.65	0.08	0.00	0.08				
22.70	0.08	0.00	0.08				
22.75	0.08	0.00	0.08				
22.80	0.08	0.00	0.08				
22.85	0.08	0.00	0.08				
22.90	0.08	0.00	0.08				
22.95	0.08	0.00	0.08				
23.00	0.08	0.00	0.08				
23.05	0.08	0.00	0.08				
23.10	0.08	0.00	0.08				
23.15	0.08	0.00	0.08				
23.20	0.08	0.00	0.08				
23.25	0.08	0.00	0.08				
23.30	0.08	0.00	0.08				
23.35	0.08	0.00	0.08				

Summary for Link E1B: E1B

Inflow Area = 2.240 ac, 27.23% Impervious, Inflow Depth > 4.14" for 10YR CURRENT event
Inflow = 8.61 cfs @ 12.12 hrs, Volume= 0.773 af
Primary = 8.61 cfs @ 12.12 hrs, Volume= 0.773 af, Atten= 0%, Lag= 0.0 min
Routed to Link EPOI-1 : EPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link E1B: E1B



Hydrograph for Link E1B: E1B

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.04	0.00	0.04
0.05	0.00	0.00	0.00	2.65	0.04	0.00	0.04
0.10	0.00	0.00	0.00	2.70	0.04	0.00	0.04
0.15	0.00	0.00	0.00	2.75	0.04	0.00	0.04
0.20	0.00	0.00	0.00	2.80	0.04	0.00	0.04
0.25	0.00	0.00	0.00	2.85	0.04	0.00	0.04
0.30	0.00	0.00	0.00	2.90	0.05	0.00	0.05
0.35	0.00	0.00	0.00	2.95	0.05	0.00	0.05
0.40	0.00	0.00	0.00	3.00	0.05	0.00	0.05
0.45	0.00	0.00	0.00	3.05	0.05	0.00	0.05
0.50	0.00	0.00	0.00	3.10	0.05	0.00	0.05
0.55	0.00	0.00	0.00	3.15	0.05	0.00	0.05
0.60	0.00	0.00	0.00	3.20	0.05	0.00	0.05
0.65	0.00	0.00	0.00	3.25	0.05	0.00	0.05
0.70	0.00	0.00	0.00	3.30	0.06	0.00	0.06
0.75	0.00	0.00	0.00	3.35	0.06	0.00	0.06
0.80	0.00	0.00	0.00	3.40	0.06	0.00	0.06
0.85	0.00	0.00	0.00	3.45	0.06	0.00	0.06
0.90	0.00	0.00	0.00	3.50	0.06	0.00	0.06
0.95	0.00	0.00	0.00	3.55	0.06	0.00	0.06
1.00	0.00	0.00	0.00	3.60	0.06	0.00	0.06
1.05	0.00	0.00	0.00	3.65	0.06	0.00	0.06
1.10	0.00	0.00	0.00	3.70	0.07	0.00	0.07
1.15	0.00	0.00	0.00	3.75	0.07	0.00	0.07
1.20	0.00	0.00	0.00	3.80	0.07	0.00	0.07
1.25	0.00	0.00	0.00	3.85	0.07	0.00	0.07
1.30	0.00	0.00	0.00	3.90	0.07	0.00	0.07
1.35	0.00	0.00	0.00	3.95	0.07	0.00	0.07
1.40	0.01	0.00	0.01	4.00	0.07	0.00	0.07
1.45	0.01	0.00	0.01	4.05	0.07	0.00	0.07
1.50	0.01	0.00	0.01	4.10	0.07	0.00	0.07
1.55	0.01	0.00	0.01	4.15	0.08	0.00	0.08
1.60	0.01	0.00	0.01	4.20	0.08	0.00	0.08
1.65	0.01	0.00	0.01	4.25	0.08	0.00	0.08
1.70	0.01	0.00	0.01	4.30	0.08	0.00	0.08
1.75	0.01	0.00	0.01	4.35	0.08	0.00	0.08
1.80	0.01	0.00	0.01	4.40	0.08	0.00	0.08
1.85	0.02	0.00	0.02	4.45	0.08	0.00	0.08
1.90	0.02	0.00	0.02	4.50	0.08	0.00	0.08
1.95	0.02	0.00	0.02	4.55	0.08	0.00	0.08
2.00	0.02	0.00	0.02	4.60	0.09	0.00	0.09
2.05	0.02	0.00	0.02	4.65	0.09	0.00	0.09
2.10	0.02	0.00	0.02	4.70	0.09	0.00	0.09
2.15	0.02	0.00	0.02	4.75	0.09	0.00	0.09
2.20	0.03	0.00	0.03	4.80	0.09	0.00	0.09
2.25	0.03	0.00	0.03	4.85	0.09	0.00	0.09
2.30	0.03	0.00	0.03	4.90	0.09	0.00	0.09
2.35	0.03	0.00	0.03	4.95	0.09	0.00	0.09
2.40	0.03	0.00	0.03	5.00	0.09	0.00	0.09
2.45	0.03	0.00	0.03	5.05	0.09	0.00	0.09
2.50	0.03	0.00	0.03	5.10	0.10	0.00	0.10
2.55	0.04	0.00	0.04	5.15	0.10	0.00	0.10

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.10	0.00	0.10	7.80	0.18	0.00	0.18
5.25	0.10	0.00	0.10	7.85	0.19	0.00	0.19
5.30	0.10	0.00	0.10	7.90	0.19	0.00	0.19
5.35	0.10	0.00	0.10	7.95	0.19	0.00	0.19
5.40	0.10	0.00	0.10	8.00	0.19	0.00	0.19
5.45	0.10	0.00	0.10	8.05	0.19	0.00	0.19
5.50	0.10	0.00	0.10	8.10	0.20	0.00	0.20
5.55	0.10	0.00	0.10	8.15	0.20	0.00	0.20
5.60	0.10	0.00	0.10	8.20	0.20	0.00	0.20
5.65	0.11	0.00	0.11	8.25	0.20	0.00	0.20
5.70	0.11	0.00	0.11	8.30	0.20	0.00	0.20
5.75	0.11	0.00	0.11	8.35	0.21	0.00	0.21
5.80	0.11	0.00	0.11	8.40	0.21	0.00	0.21
5.85	0.11	0.00	0.11	8.45	0.21	0.00	0.21
5.90	0.11	0.00	0.11	8.50	0.21	0.00	0.21
5.95	0.11	0.00	0.11	8.55	0.22	0.00	0.22
6.00	0.11	0.00	0.11	8.60	0.22	0.00	0.22
6.05	0.11	0.00	0.11	8.65	0.22	0.00	0.22
6.10	0.11	0.00	0.11	8.70	0.22	0.00	0.22
6.15	0.12	0.00	0.12	8.75	0.22	0.00	0.22
6.20	0.12	0.00	0.12	8.80	0.23	0.00	0.23
6.25	0.12	0.00	0.12	8.85	0.23	0.00	0.23
6.30	0.12	0.00	0.12	8.90	0.23	0.00	0.23
6.35	0.12	0.00	0.12	8.95	0.23	0.00	0.23
6.40	0.13	0.00	0.13	9.00	0.24	0.00	0.24
6.45	0.13	0.00	0.13	9.05	0.24	0.00	0.24
6.50	0.13	0.00	0.13	9.10	0.24	0.00	0.24
6.55	0.13	0.00	0.13	9.15	0.25	0.00	0.25
6.60	0.13	0.00	0.13	9.20	0.26	0.00	0.26
6.65	0.14	0.00	0.14	9.25	0.26	0.00	0.26
6.70	0.14	0.00	0.14	9.30	0.27	0.00	0.27
6.75	0.14	0.00	0.14	9.35	0.28	0.00	0.28
6.80	0.14	0.00	0.14	9.40	0.28	0.00	0.28
6.85	0.14	0.00	0.14	9.45	0.29	0.00	0.29
6.90	0.15	0.00	0.15	9.50	0.30	0.00	0.30
6.95	0.15	0.00	0.15	9.55	0.30	0.00	0.30
7.00	0.15	0.00	0.15	9.60	0.31	0.00	0.31
7.05	0.15	0.00	0.15	9.65	0.32	0.00	0.32
7.10	0.15	0.00	0.15	9.70	0.32	0.00	0.32
7.15	0.16	0.00	0.16	9.75	0.33	0.00	0.33
7.20	0.16	0.00	0.16	9.80	0.34	0.00	0.34
7.25	0.16	0.00	0.16	9.85	0.35	0.00	0.35
7.30	0.16	0.00	0.16	9.90	0.35	0.00	0.35
7.35	0.16	0.00	0.16	9.95	0.36	0.00	0.36
7.40	0.17	0.00	0.17	10.00	0.37	0.00	0.37
7.45	0.17	0.00	0.17	10.05	0.38	0.00	0.38
7.50	0.17	0.00	0.17	10.10	0.38	0.00	0.38
7.55	0.17	0.00	0.17	10.15	0.39	0.00	0.39
7.60	0.17	0.00	0.17	10.20	0.40	0.00	0.40
7.65	0.18	0.00	0.18	10.25	0.41	0.00	0.41
7.70	0.18	0.00	0.18	10.30	0.41	0.00	0.41
7.75	0.18	0.00	0.18	10.35	0.42	0.00	0.42

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.43	0.00	0.43	13.00	1.05	0.00	1.05
10.45	0.43	0.00	0.43	13.05	0.99	0.00	0.99
10.50	0.44	0.00	0.44	13.10	0.93	0.00	0.93
10.55	0.46	0.00	0.46	13.15	0.89	0.00	0.89
10.60	0.47	0.00	0.47	13.20	0.84	0.00	0.84
10.65	0.50	0.00	0.50	13.25	0.81	0.00	0.81
10.70	0.52	0.00	0.52	13.30	0.77	0.00	0.77
10.75	0.54	0.00	0.54	13.35	0.74	0.00	0.74
10.80	0.57	0.00	0.57	13.40	0.71	0.00	0.71
10.85	0.60	0.00	0.60	13.45	0.68	0.00	0.68
10.90	0.62	0.00	0.62	13.50	0.65	0.00	0.65
10.95	0.65	0.00	0.65	13.55	0.62	0.00	0.62
11.00	0.68	0.00	0.68	13.60	0.59	0.00	0.59
11.05	0.71	0.00	0.71	13.65	0.56	0.00	0.56
11.10	0.75	0.00	0.75	13.70	0.55	0.00	0.55
11.15	0.80	0.00	0.80	13.75	0.53	0.00	0.53
11.20	0.84	0.00	0.84	13.80	0.52	0.00	0.52
11.25	0.89	0.00	0.89	13.85	0.51	0.00	0.51
11.30	0.94	0.00	0.94	13.90	0.50	0.00	0.50
11.35	0.99	0.00	0.99	13.95	0.49	0.00	0.49
11.40	1.04	0.00	1.04	14.00	0.48	0.00	0.48
11.45	1.09	0.00	1.09	14.05	0.48	0.00	0.48
11.50	1.14	0.00	1.14	14.10	0.47	0.00	0.47
11.55	1.27	0.00	1.27	14.15	0.46	0.00	0.46
11.60	1.49	0.00	1.49	14.20	0.45	0.00	0.45
11.65	1.65	0.00	1.65	14.25	0.44	0.00	0.44
11.70	1.78	0.00	1.78	14.30	0.44	0.00	0.44
11.75	1.98	0.00	1.98	14.35	0.43	0.00	0.43
11.80	2.25	0.00	2.25	14.40	0.42	0.00	0.42
11.85	2.61	0.00	2.61	14.45	0.41	0.00	0.41
11.90	3.06	0.00	3.06	14.50	0.41	0.00	0.41
11.95	3.80	0.00	3.80	14.55	0.40	0.00	0.40
12.00	4.85	0.00	4.85	14.60	0.39	0.00	0.39
12.05	6.29	0.00	6.29	14.65	0.38	0.00	0.38
12.10	**8.15**	0.00	**8.15**	14.70	0.37	0.00	0.37
12.15	**8.33**	0.00	**8.33**	14.75	0.37	0.00	0.37
12.20	6.96	0.00	6.96	14.80	0.36	0.00	0.36
12.25	5.78	0.00	5.78	14.85	0.35	0.00	0.35
12.30	4.83	0.00	4.83	14.90	0.34	0.00	0.34
12.35	4.08	0.00	4.08	14.95	0.33	0.00	0.33
12.40	3.44	0.00	3.44	15.00	0.33	0.00	0.33
12.45	2.97	0.00	2.97	15.05	0.32	0.00	0.32
12.50	2.64	0.00	2.64	15.10	0.31	0.00	0.31
12.55	2.32	0.00	2.32	15.15	0.31	0.00	0.31
12.60	1.97	0.00	1.97	15.20	0.30	0.00	0.30
12.65	1.73	0.00	1.73	15.25	0.30	0.00	0.30
12.70	1.56	0.00	1.56	15.30	0.29	0.00	0.29
12.75	1.43	0.00	1.43	15.35	0.29	0.00	0.29
12.80	1.33	0.00	1.33	15.40	0.29	0.00	0.29
12.85	1.25	0.00	1.25	15.45	0.29	0.00	0.29
12.90	1.17	0.00	1.17	15.50	0.28	0.00	0.28
12.95	1.11	0.00	1.11	15.55	0.28	0.00	0.28

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.28	0.00	0.28	18.20	0.17	0.00	0.17
15.65	0.28	0.00	0.28	18.25	0.17	0.00	0.17
15.70	0.28	0.00	0.28	18.30	0.17	0.00	0.17
15.75	0.27	0.00	0.27	18.35	0.17	0.00	0.17
15.80	0.27	0.00	0.27	18.40	0.17	0.00	0.17
15.85	0.27	0.00	0.27	18.45	0.17	0.00	0.17
15.90	0.27	0.00	0.27	18.50	0.17	0.00	0.17
15.95	0.27	0.00	0.27	18.55	0.17	0.00	0.17
16.00	0.26	0.00	0.26	18.60	0.17	0.00	0.17
16.05	0.26	0.00	0.26	18.65	0.17	0.00	0.17
16.10	0.26	0.00	0.26	18.70	0.17	0.00	0.17
16.15	0.26	0.00	0.26	18.75	0.17	0.00	0.17
16.20	0.26	0.00	0.26	18.80	0.17	0.00	0.17
16.25	0.25	0.00	0.25	18.85	0.16	0.00	0.16
16.30	0.25	0.00	0.25	18.90	0.16	0.00	0.16
16.35	0.25	0.00	0.25	18.95	0.16	0.00	0.16
16.40	0.25	0.00	0.25	19.00	0.16	0.00	0.16
16.45	0.24	0.00	0.24	19.05	0.16	0.00	0.16
16.50	0.24	0.00	0.24	19.10	0.16	0.00	0.16
16.55	0.24	0.00	0.24	19.15	0.16	0.00	0.16
16.60	0.24	0.00	0.24	19.20	0.16	0.00	0.16
16.65	0.24	0.00	0.24	19.25	0.16	0.00	0.16
16.70	0.23	0.00	0.23	19.30	0.16	0.00	0.16
16.75	0.23	0.00	0.23	19.35	0.16	0.00	0.16
16.80	0.23	0.00	0.23	19.40	0.16	0.00	0.16
16.85	0.23	0.00	0.23	19.45	0.16	0.00	0.16
16.90	0.23	0.00	0.23	19.50	0.16	0.00	0.16
16.95	0.22	0.00	0.22	19.55	0.16	0.00	0.16
17.00	0.22	0.00	0.22	19.60	0.16	0.00	0.16
17.05	0.22	0.00	0.22	19.65	0.16	0.00	0.16
17.10	0.22	0.00	0.22	19.70	0.16	0.00	0.16
17.15	0.22	0.00	0.22	19.75	0.16	0.00	0.16
17.20	0.21	0.00	0.21	19.80	0.16	0.00	0.16
17.25	0.21	0.00	0.21	19.85	0.15	0.00	0.15
17.30	0.21	0.00	0.21	19.90	0.15	0.00	0.15
17.35	0.21	0.00	0.21	19.95	0.15	0.00	0.15
17.40	0.20	0.00	0.20	20.00	0.15	0.00	0.15
17.45	0.20	0.00	0.20	20.05	0.15	0.00	0.15
17.50	0.20	0.00	0.20	20.10	0.15	0.00	0.15
17.55	0.20	0.00	0.20	20.15	0.15	0.00	0.15
17.60	0.20	0.00	0.20	20.20	0.15	0.00	0.15
17.65	0.19	0.00	0.19	20.25	0.15	0.00	0.15
17.70	0.19	0.00	0.19	20.30	0.15	0.00	0.15
17.75	0.19	0.00	0.19	20.35	0.15	0.00	0.15
17.80	0.19	0.00	0.19	20.40	0.15	0.00	0.15
17.85	0.19	0.00	0.19	20.45	0.15	0.00	0.15
17.90	0.18	0.00	0.18	20.50	0.15	0.00	0.15
17.95	0.18	0.00	0.18	20.55	0.15	0.00	0.15
18.00	0.18	0.00	0.18	20.60	0.15	0.00	0.15
18.05	0.18	0.00	0.18	20.65	0.15	0.00	0.15
18.10	0.18	0.00	0.18	20.70	0.15	0.00	0.15
18.15	0.17	0.00	0.17	20.75	0.14	0.00	0.14

Hydrograph for Link E1B: E1B (continued)

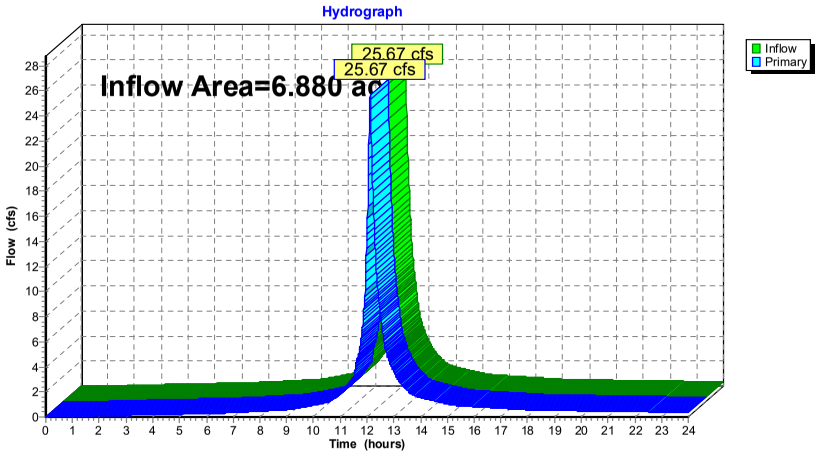
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.14	0.00	0.14	23.40	0.12	0.00	0.12
20.85	0.14	0.00	0.14	23.45	0.12	0.00	0.12
20.90	0.14	0.00	0.14	23.50	0.12	0.00	0.12
20.95	0.14	0.00	0.14	23.55	0.12	0.00	0.12
21.00	0.14	0.00	0.14	23.60	0.11	0.00	0.11
21.05	0.14	0.00	0.14	23.65	0.11	0.00	0.11
21.10	0.14	0.00	0.14	23.70	0.11	0.00	0.11
21.15	0.14	0.00	0.14	23.75	0.11	0.00	0.11
21.20	0.14	0.00	0.14	23.80	0.11	0.00	0.11
21.25	0.14	0.00	0.14	23.85	0.11	0.00	0.11
21.30	0.14	0.00	0.14	23.90	0.11	0.00	0.11
21.35	0.14	0.00	0.14	23.95	0.12	0.00	0.12
21.40	0.14	0.00	0.14	24.00	0.12	0.00	0.12
21.45	0.14	0.00	0.14				
21.50	0.14	0.00	0.14				
21.55	0.14	0.00	0.14				
21.60	0.14	0.00	0.14				
21.65	0.14	0.00	0.14				
21.70	0.13	0.00	0.13				
21.75	0.13	0.00	0.13				
21.80	0.13	0.00	0.13				
21.85	0.13	0.00	0.13				
21.90	0.13	0.00	0.13				
21.95	0.13	0.00	0.13				
22.00	0.13	0.00	0.13				
22.05	0.13	0.00	0.13				
22.10	0.13	0.00	0.13				
22.15	0.13	0.00	0.13				
22.20	0.13	0.00	0.13				
22.25	0.13	0.00	0.13				
22.30	0.13	0.00	0.13				
22.35	0.13	0.00	0.13				
22.40	0.13	0.00	0.13				
22.45	0.13	0.00	0.13				
22.50	0.13	0.00	0.13				
22.55	0.13	0.00	0.13				
22.60	0.13	0.00	0.13				
22.65	0.13	0.00	0.13				
22.70	0.12	0.00	0.12				
22.75	0.12	0.00	0.12				
22.80	0.12	0.00	0.12				
22.85	0.12	0.00	0.12				
22.90	0.12	0.00	0.12				
22.95	0.12	0.00	0.12				
23.00	0.12	0.00	0.12				
23.05	0.12	0.00	0.12				
23.10	0.12	0.00	0.12				
23.15	0.12	0.00	0.12				
23.20	0.12	0.00	0.12				
23.25	0.12	0.00	0.12				
23.30	0.12	0.00	0.12				
23.35	0.12	0.00	0.12				

Summary for Link EPOI-1: EPOI-1

Inflow Area = 6.880 ac, 33.14% Impervious, Inflow Depth > 3.98" for 10YR CURRENT event
Inflow = 25.67 cfs @ 12.12 hrs, Volume= 2.281 af
Primary = 25.67 cfs @ 12.12 hrs, Volume= 2.281 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link EPOI-1: EPOI-1



Hydrograph for Link EPOI-1: EPOI-1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.10	0.00	0.10
0.05	0.00	0.00	0.00	2.65	0.11	0.00	0.11
0.10	0.00	0.00	0.00	2.70	0.11	0.00	0.11
0.15	0.00	0.00	0.00	2.75	0.11	0.00	0.11
0.20	0.00	0.00	0.00	2.80	0.11	0.00	0.11
0.25	0.00	0.00	0.00	2.85	0.12	0.00	0.12
0.30	0.00	0.00	0.00	2.90	0.12	0.00	0.12
0.35	0.00	0.00	0.00	2.95	0.12	0.00	0.12
0.40	0.00	0.00	0.00	3.00	0.12	0.00	0.12
0.45	0.00	0.00	0.00	3.05	0.13	0.00	0.13
0.50	0.00	0.00	0.00	3.10	0.13	0.00	0.13
0.55	0.00	0.00	0.00	3.15	0.13	0.00	0.13
0.60	0.00	0.00	0.00	3.20	0.14	0.00	0.14
0.65	0.00	0.00	0.00	3.25	0.14	0.00	0.14
0.70	0.00	0.00	0.00	3.30	0.14	0.00	0.14
0.75	0.00	0.00	0.00	3.35	0.14	0.00	0.14
0.80	0.00	0.00	0.00	3.40	0.15	0.00	0.15
0.85	0.00	0.00	0.00	3.45	0.15	0.00	0.15
0.90	0.00	0.00	0.00	3.50	0.15	0.00	0.15
0.95	0.00	0.00	0.00	3.55	0.15	0.00	0.15
1.00	0.01	0.00	0.01	3.60	0.16	0.00	0.16
1.05	0.01	0.00	0.01	3.65	0.16	0.00	0.16
1.10	0.01	0.00	0.01	3.70	0.16	0.00	0.16
1.15	0.01	0.00	0.01	3.75	0.16	0.00	0.16
1.20	0.01	0.00	0.01	3.80	0.17	0.00	0.17
1.25	0.02	0.00	0.02	3.85	0.17	0.00	0.17
1.30	0.02	0.00	0.02	3.90	0.17	0.00	0.17
1.35	0.02	0.00	0.02	3.95	0.17	0.00	0.17
1.40	0.02	0.00	0.02	4.00	0.17	0.00	0.17
1.45	0.03	0.00	0.03	4.05	0.18	0.00	0.18
1.50	0.03	0.00	0.03	4.10	0.18	0.00	0.18
1.55	0.03	0.00	0.03	4.15	0.18	0.00	0.18
1.60	0.04	0.00	0.04	4.20	0.18	0.00	0.18
1.65	0.04	0.00	0.04	4.25	0.19	0.00	0.19
1.70	0.04	0.00	0.04	4.30	0.19	0.00	0.19
1.75	0.05	0.00	0.05	4.35	0.19	0.00	0.19
1.80	0.05	0.00	0.05	4.40	0.19	0.00	0.19
1.85	0.05	0.00	0.05	4.45	0.19	0.00	0.19
1.90	0.06	0.00	0.06	4.50	0.20	0.00	0.20
1.95	0.06	0.00	0.06	4.55	0.20	0.00	0.20
2.00	0.06	0.00	0.06	4.60	0.20	0.00	0.20
2.05	0.07	0.00	0.07	4.65	0.20	0.00	0.20
2.10	0.07	0.00	0.07	4.70	0.20	0.00	0.20
2.15	0.07	0.00	0.07	4.75	0.21	0.00	0.21
2.20	0.08	0.00	0.08	4.80	0.21	0.00	0.21
2.25	0.08	0.00	0.08	4.85	0.21	0.00	0.21
2.30	0.08	0.00	0.08	4.90	0.21	0.00	0.21
2.35	0.09	0.00	0.09	4.95	0.21	0.00	0.21
2.40	0.09	0.00	0.09	5.00	0.22	0.00	0.22
2.45	0.09	0.00	0.09	5.05	0.22	0.00	0.22
2.50	0.10	0.00	0.10	5.10	0.22	0.00	0.22
2.55	0.10	0.00	0.10	5.15	0.22	0.00	0.22

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.22	0.00	0.22	7.80	0.42	0.00	0.42
5.25	0.23	0.00	0.23	7.85	0.43	0.00	0.43
5.30	0.23	0.00	0.23	7.90	0.44	0.00	0.44
5.35	0.23	0.00	0.23	7.95	0.44	0.00	0.44
5.40	0.23	0.00	0.23	8.00	0.45	0.00	0.45
5.45	0.23	0.00	0.23	8.05	0.45	0.00	0.45
5.50	0.24	0.00	0.24	8.10	0.46	0.00	0.46
5.55	0.24	0.00	0.24	8.15	0.47	0.00	0.47
5.60	0.24	0.00	0.24	8.20	0.47	0.00	0.47
5.65	0.24	0.00	0.24	8.25	0.48	0.00	0.48
5.70	0.24	0.00	0.24	8.30	0.48	0.00	0.48
5.75	0.25	0.00	0.25	8.35	0.49	0.00	0.49
5.80	0.25	0.00	0.25	8.40	0.50	0.00	0.50
5.85	0.25	0.00	0.25	8.45	0.50	0.00	0.50
5.90	0.25	0.00	0.25	8.50	0.51	0.00	0.51
5.95	0.25	0.00	0.25	8.55	0.52	0.00	0.52
6.00	0.25	0.00	0.25	8.60	0.52	0.00	0.52
6.05	0.26	0.00	0.26	8.65	0.53	0.00	0.53
6.10	0.26	0.00	0.26	8.70	0.54	0.00	0.54
6.15	0.26	0.00	0.26	8.75	0.54	0.00	0.54
6.20	0.27	0.00	0.27	8.80	0.55	0.00	0.55
6.25	0.27	0.00	0.27	8.85	0.55	0.00	0.55
6.30	0.28	0.00	0.28	8.90	0.56	0.00	0.56
6.35	0.28	0.00	0.28	8.95	0.57	0.00	0.57
6.40	0.28	0.00	0.28	9.00	0.57	0.00	0.57
6.45	0.29	0.00	0.29	9.05	0.59	0.00	0.59
6.50	0.29	0.00	0.29	9.10	0.60	0.00	0.60
6.55	0.30	0.00	0.30	9.15	0.62	0.00	0.62
6.60	0.30	0.00	0.30	9.20	0.63	0.00	0.63
6.65	0.31	0.00	0.31	9.25	0.65	0.00	0.65
6.70	0.31	0.00	0.31	9.30	0.67	0.00	0.67
6.75	0.31	0.00	0.31	9.35	0.69	0.00	0.69
6.80	0.32	0.00	0.32	9.40	0.70	0.00	0.70
6.85	0.32	0.00	0.32	9.45	0.72	0.00	0.72
6.90	0.33	0.00	0.33	9.50	0.74	0.00	0.74
6.95	0.33	0.00	0.33	9.55	0.76	0.00	0.76
7.00	0.34	0.00	0.34	9.60	0.78	0.00	0.78
7.05	0.34	0.00	0.34	9.65	0.80	0.00	0.80
7.10	0.35	0.00	0.35	9.70	0.82	0.00	0.82
7.15	0.35	0.00	0.35	9.75	0.84	0.00	0.84
7.20	0.36	0.00	0.36	9.80	0.86	0.00	0.86
7.25	0.36	0.00	0.36	9.85	0.88	0.00	0.88
7.30	0.37	0.00	0.37	9.90	0.90	0.00	0.90
7.35	0.37	0.00	0.37	9.95	0.92	0.00	0.92
7.40	0.38	0.00	0.38	10.00	0.94	0.00	0.94
7.45	0.38	0.00	0.38	10.05	0.97	0.00	0.97
7.50	0.39	0.00	0.39	10.10	0.99	0.00	0.99
7.55	0.39	0.00	0.39	10.15	1.01	0.00	1.01
7.60	0.40	0.00	0.40	10.20	1.03	0.00	1.03
7.65	0.41	0.00	0.41	10.25	1.05	0.00	1.05
7.70	0.41	0.00	0.41	10.30	1.07	0.00	1.07
7.75	0.42	0.00	0.42	10.35	1.10	0.00	1.10

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	1.12	0.00	1.12	13.00	3.61	0.00	3.61
10.45	1.14	0.00	1.14	13.05	3.39	0.00	3.39
10.50	1.16	0.00	1.16	13.10	3.18	0.00	3.18
10.55	1.21	0.00	1.21	13.15	3.00	0.00	3.00
10.60	1.26	0.00	1.26	13.20	2.85	0.00	2.85
10.65	1.32	0.00	1.32	13.25	2.71	0.00	2.71
10.70	1.39	0.00	1.39	13.30	2.58	0.00	2.58
10.75	1.46	0.00	1.46	13.35	2.46	0.00	2.46
10.80	1.53	0.00	1.53	13.40	2.34	0.00	2.34
10.85	1.61	0.00	1.61	13.45	2.23	0.00	2.23
10.90	1.68	0.00	1.68	13.50	2.13	0.00	2.13
10.95	1.76	0.00	1.76	13.55	2.02	0.00	2.02
11.00	1.83	0.00	1.83	13.60	1.92	0.00	1.92
11.05	1.94	0.00	1.94	13.65	1.84	0.00	1.84
11.10	2.06	0.00	2.06	13.70	1.78	0.00	1.78
11.15	2.19	0.00	2.19	13.75	1.73	0.00	1.73
11.20	2.32	0.00	2.32	13.80	1.68	0.00	1.68
11.25	2.46	0.00	2.46	13.85	1.64	0.00	1.64
11.30	2.60	0.00	2.60	13.90	1.61	0.00	1.61
11.35	2.76	0.00	2.76	13.95	1.58	0.00	1.58
11.40	2.90	0.00	2.90	14.00	1.55	0.00	1.55
11.45	3.05	0.00	3.05	14.05	1.52	0.00	1.52
11.50	3.18	0.00	3.18	14.10	1.49	0.00	1.49
11.55	3.66	0.00	3.66	14.15	1.46	0.00	1.46
11.60	4.29	0.00	4.29	14.20	1.43	0.00	1.43
11.65	4.74	0.00	4.74	14.25	1.41	0.00	1.41
11.70	5.08	0.00	5.08	14.30	1.38	0.00	1.38
11.75	5.75	0.00	5.75	14.35	1.35	0.00	1.35
11.80	6.55	0.00	6.55	14.40	1.33	0.00	1.33
11.85	7.71	0.00	7.71	14.45	1.30	0.00	1.30
11.90	8.99	0.00	8.99	14.50	1.28	0.00	1.28
11.95	11.52	0.00	11.52	14.55	1.25	0.00	1.25
12.00	14.56	0.00	14.56	14.60	1.23	0.00	1.23
12.05	19.30	0.00	19.30	14.65	1.20	0.00	1.20
12.10	**24.68**	0.00	**24.68**	14.70	1.18	0.00	1.18
12.15	**23.54**	0.00	**23.54**	14.75	1.15	0.00	1.15
12.20	19.23	0.00	19.23	14.80	1.13	0.00	1.13
12.25	16.10	0.00	16.10	14.85	1.11	0.00	1.11
12.30	13.66	0.00	13.66	14.90	1.08	0.00	1.08
12.35	11.70	0.00	11.70	14.95	1.06	0.00	1.06
12.40	10.10	0.00	10.10	15.00	1.03	0.00	1.03
12.45	9.03	0.00	9.03	15.05	1.01	0.00	1.01
12.50	8.30	0.00	8.30	15.10	0.98	0.00	0.98
12.55	7.38	0.00	7.38	15.15	0.97	0.00	0.97
12.60	6.44	0.00	6.44	15.20	0.95	0.00	0.95
12.65	5.79	0.00	5.79	15.25	0.94	0.00	0.94
12.70	5.32	0.00	5.32	15.30	0.93	0.00	0.93
12.75	4.93	0.00	4.93	15.35	0.92	0.00	0.92
12.80	4.61	0.00	4.61	15.40	0.91	0.00	0.91
12.85	4.33	0.00	4.33	15.45	0.90	0.00	0.90
12.90	4.08	0.00	4.08	15.50	0.89	0.00	0.89
12.95	3.84	0.00	3.84	15.55	0.89	0.00	0.89

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.88	0.00	0.88	18.20	0.54	0.00	0.54
15.65	0.87	0.00	0.87	18.25	0.54	0.00	0.54
15.70	0.87	0.00	0.87	18.30	0.54	0.00	0.54
15.75	0.86	0.00	0.86	18.35	0.53	0.00	0.53
15.80	0.85	0.00	0.85	18.40	0.53	0.00	0.53
15.85	0.84	0.00	0.84	18.45	0.53	0.00	0.53
15.90	0.84	0.00	0.84	18.50	0.53	0.00	0.53
15.95	0.83	0.00	0.83	18.55	0.53	0.00	0.53
16.00	0.82	0.00	0.82	18.60	0.52	0.00	0.52
16.05	0.82	0.00	0.82	18.65	0.52	0.00	0.52
16.10	0.81	0.00	0.81	18.70	0.52	0.00	0.52
16.15	0.81	0.00	0.81	18.75	0.52	0.00	0.52
16.20	0.80	0.00	0.80	18.80	0.52	0.00	0.52
16.25	0.79	0.00	0.79	18.85	0.52	0.00	0.52
16.30	0.79	0.00	0.79	18.90	0.51	0.00	0.51
16.35	0.78	0.00	0.78	18.95	0.51	0.00	0.51
16.40	0.77	0.00	0.77	19.00	0.51	0.00	0.51
16.45	0.77	0.00	0.77	19.05	0.51	0.00	0.51
16.50	0.76	0.00	0.76	19.10	0.51	0.00	0.51
16.55	0.75	0.00	0.75	19.15	0.51	0.00	0.51
16.60	0.75	0.00	0.75	19.20	0.50	0.00	0.50
16.65	0.74	0.00	0.74	19.25	0.50	0.00	0.50
16.70	0.73	0.00	0.73	19.30	0.50	0.00	0.50
16.75	0.73	0.00	0.73	19.35	0.50	0.00	0.50
16.80	0.72	0.00	0.72	19.40	0.50	0.00	0.50
16.85	0.71	0.00	0.71	19.45	0.50	0.00	0.50
16.90	0.71	0.00	0.71	19.50	0.49	0.00	0.49
16.95	0.70	0.00	0.70	19.55	0.49	0.00	0.49
17.00	0.70	0.00	0.70	19.60	0.49	0.00	0.49
17.05	0.69	0.00	0.69	19.65	0.49	0.00	0.49
17.10	0.68	0.00	0.68	19.70	0.49	0.00	0.49
17.15	0.68	0.00	0.68	19.75	0.49	0.00	0.49
17.20	0.67	0.00	0.67	19.80	0.49	0.00	0.49
17.25	0.66	0.00	0.66	19.85	0.48	0.00	0.48
17.30	0.66	0.00	0.66	19.90	0.48	0.00	0.48
17.35	0.65	0.00	0.65	19.95	0.48	0.00	0.48
17.40	0.64	0.00	0.64	20.00	0.48	0.00	0.48
17.45	0.64	0.00	0.64	20.05	0.48	0.00	0.48
17.50	0.63	0.00	0.63	20.10	0.47	0.00	0.47
17.55	0.62	0.00	0.62	20.15	0.47	0.00	0.47
17.60	0.62	0.00	0.62	20.20	0.47	0.00	0.47
17.65	0.61	0.00	0.61	20.25	0.47	0.00	0.47
17.70	0.60	0.00	0.60	20.30	0.47	0.00	0.47
17.75	0.60	0.00	0.60	20.35	0.47	0.00	0.47
17.80	0.59	0.00	0.59	20.40	0.46	0.00	0.46
17.85	0.58	0.00	0.58	20.45	0.46	0.00	0.46
17.90	0.58	0.00	0.58	20.50	0.46	0.00	0.46
17.95	0.57	0.00	0.57	20.55	0.46	0.00	0.46
18.00	0.56	0.00	0.56	20.60	0.46	0.00	0.46
18.05	0.56	0.00	0.56	20.65	0.46	0.00	0.46
18.10	0.55	0.00	0.55	20.70	0.46	0.00	0.46
18.15	0.55	0.00	0.55	20.75	0.45	0.00	0.45

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.45	0.00	0.45	23.40	0.37	0.00	0.37
20.85	0.45	0.00	0.45	23.45	0.37	0.00	0.37
20.90	0.45	0.00	0.45	23.50	0.36	0.00	0.36
20.95	0.45	0.00	0.45	23.55	0.36	0.00	0.36
21.00	0.45	0.00	0.45	23.60	0.36	0.00	0.36
21.05	0.44	0.00	0.44	23.65	0.36	0.00	0.36
21.10	0.44	0.00	0.44	23.70	0.36	0.00	0.36
21.15	0.44	0.00	0.44	23.75	0.36	0.00	0.36
21.20	0.44	0.00	0.44	23.80	0.35	0.00	0.35
21.25	0.44	0.00	0.44	23.85	0.35	0.00	0.35
21.30	0.44	0.00	0.44	23.90	0.35	0.00	0.35
21.35	0.44	0.00	0.44	23.95	0.36	0.00	0.36
21.40	0.43	0.00	0.43	24.00	0.39	0.00	0.39
21.45	0.43	0.00	0.43				
21.50	0.43	0.00	0.43				
21.55	0.43	0.00	0.43				
21.60	0.43	0.00	0.43				
21.65	0.42	0.00	0.42				
21.70	0.42	0.00	0.42				
21.75	0.42	0.00	0.42				
21.80	0.42	0.00	0.42				
21.85	0.42	0.00	0.42				
21.90	0.42	0.00	0.42				
21.95	0.41	0.00	0.41				
22.00	0.41	0.00	0.41				
22.05	0.41	0.00	0.41				
22.10	0.41	0.00	0.41				
22.15	0.41	0.00	0.41				
22.20	0.41	0.00	0.41				
22.25	0.41	0.00	0.41				
22.30	0.40	0.00	0.40				
22.35	0.40	0.00	0.40				
22.40	0.40	0.00	0.40				
22.45	0.40	0.00	0.40				
22.50	0.40	0.00	0.40				
22.55	0.39	0.00	0.39				
22.60	0.39	0.00	0.39				
22.65	0.39	0.00	0.39				
22.70	0.39	0.00	0.39				
22.75	0.39	0.00	0.39				
22.80	0.39	0.00	0.39				
22.85	0.38	0.00	0.38				
22.90	0.38	0.00	0.38				
22.95	0.38	0.00	0.38				
23.00	0.38	0.00	0.38				
23.05	0.38	0.00	0.38				
23.10	0.38	0.00	0.38				
23.15	0.37	0.00	0.37				
23.20	0.37	0.00	0.37				
23.25	0.37	0.00	0.37				
23.30	0.37	0.00	0.37				
23.35	0.37	0.00	0.37				

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment EDA 1B PERV: EDA-1B PERV Runoff Area=0.380 ac 0.00% Impervious Runoff Depth>1.61"
Flow Length=761' Tc=5.5 min CN=53 Runoff=0.60 cfs 0.051 af

Subcatchment EDA1AIMP: EDA1A IMP Runoff Area=1.100 ac 68.18% Impervious Runoff Depth>6.09"
Flow Length=496' Tc=3.2 min CN=97 Runoff=7.38 cfs 0.558 af

Subcatchment EDA1APERV: EDA-1APERV Runoff Area=0.280 ac 0.00% Impervious Runoff Depth>4.18"
Flow Length=496' Tc=3.2 min CN=80 Runoff=1.48 cfs 0.098 af

Subcatchment EDA1B IMP: EDA1B IMP Runoff Area=1.550 ac 19.35% Impervious Runoff Depth>5.96"
Flow Length=787' Tc=6.3 min CN=96 Runoff=8.47 cfs 0.770 af

Subcatchment EDA2 IMP: EDA2 IMP Runoff Area=0.310 ac 100.00% Impervious Runoff Depth>6.21"
Flow Length=351' Tc=2.3 min CN=98 Runoff=2.22 cfs 0.160 af

Subcatchment EDA3 IMP: EDA3 IMP Runoff Area=0.800 ac 100.00% Impervious Runoff Depth>6.20"
Flow Length=804' Tc=4.8 min CN=98 Runoff=4.84 cfs 0.413 af

Subcatchment EDA3 PERV: EDA3 PERV Runoff Area=0.850 ac 0.00% Impervious Runoff Depth>4.18"
Flow Length=131' Tc=3.6 min CN=80 Runoff=4.38 cfs 0.296 af

Subcatchment EDA4 IMP: EDA4 IMP Runoff Area=0.170 ac 70.59% Impervious Runoff Depth>6.09"
Flow Length=188' Tc=1.9 min CN=97 Runoff=1.24 cfs 0.086 af

Subcatchment EDA4 PERV: EDA4 PERV Runoff Area=1.440 ac 0.00% Impervious Runoff Depth>4.16"
Flow Length=415' Tc=15.9 min CN=80 Runoff=3.99 cfs 0.500 af

Link E1A: E1A Inflow=8.86 cfs 0.656 af
Primary=8.86 cfs 0.656 af

Link E1B: E1B Inflow=10.89 cfs 0.982 af
Primary=10.89 cfs 0.982 af

Link EPOI-1: EPOI-1 Inflow=32.71 cfs 2.933 af
Primary=32.71 cfs 2.933 af

Total Runoff Area = 6.880 ac Runoff Volume = 2.933 af Average Runoff Depth = 5.12"
66.86% Pervious = 4.600 ac 33.14% Impervious = 2.280 ac

Summary for Subcatchment EDA 1B PERV: EDA-1B PERV

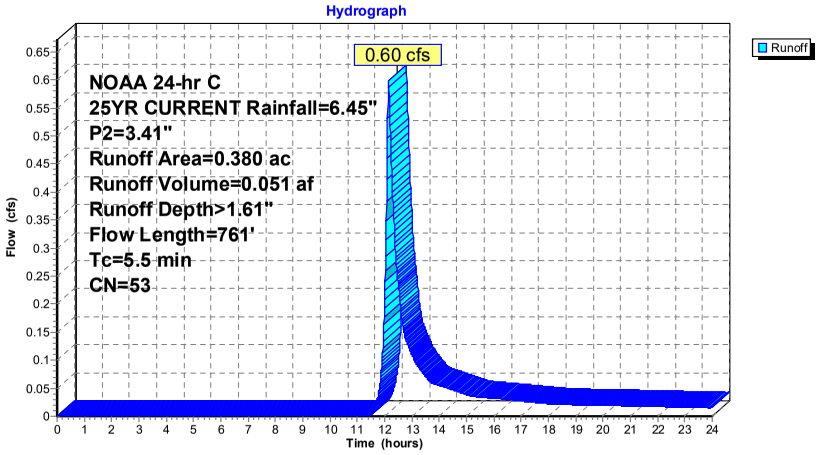
Runoff = 0.60 cfs @ 12.14 hrs, Volume= 0.051 af, Depth> 1.61"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR CURRENT Rainfall=6.45", P2=3.41"

Area (ac)	CN	Description
0.250	39	>75% Grass cover, Good, HSG A
0.130	80	>75% Grass cover, Good, HSG D
0.380	53	Weighted Average
0.380		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	93	0.0100	1.06		**Sheet Flow, Grass** Smooth surfaces n= 0.011 P2= 3.41"
0.8	74	0.0100	1.50		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.3	93	0.0110	5.40	9.55	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
5.5	761	Total			

Subcatchment EDA 1B PERV: EDA-1B PERV



Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.20	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.20	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.21	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.21	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.21	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.22	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.22	0.00	0.00
0.40	0.03	0.00	0.00	3.00	0.23	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.23	0.00	0.00
0.50	0.04	0.00	0.00	3.10	0.24	0.00	0.00
0.55	0.04	0.00	0.00	3.15	0.24	0.00	0.00
0.60	0.04	0.00	0.00	3.20	0.24	0.00	0.00
0.65	0.05	0.00	0.00	3.25	0.25	0.00	0.00
0.70	0.05	0.00	0.00	3.30	0.25	0.00	0.00
0.75	0.05	0.00	0.00	3.35	0.26	0.00	0.00
0.80	0.06	0.00	0.00	3.40	0.26	0.00	0.00
0.85	0.06	0.00	0.00	3.45	0.27	0.00	0.00
0.90	0.06	0.00	0.00	3.50	0.27	0.00	0.00
0.95	0.07	0.00	0.00	3.55	0.28	0.00	0.00
1.00	0.07	0.00	0.00	3.60	0.28	0.00	0.00
1.05	0.07	0.00	0.00	3.65	0.28	0.00	0.00
1.10	0.08	0.00	0.00	3.70	0.29	0.00	0.00
1.15	0.08	0.00	0.00	3.75	0.29	0.00	0.00
1.20	0.09	0.00	0.00	3.80	0.30	0.00	0.00
1.25	0.09	0.00	0.00	3.85	0.30	0.00	0.00
1.30	0.09	0.00	0.00	3.90	0.31	0.00	0.00
1.35	0.10	0.00	0.00	3.95	0.31	0.00	0.00
1.40	0.10	0.00	0.00	4.00	0.32	0.00	0.00
1.45	0.10	0.00	0.00	4.05	0.32	0.00	0.00
1.50	0.11	0.00	0.00	4.10	0.32	0.00	0.00
1.55	0.11	0.00	0.00	4.15	0.33	0.00	0.00
1.60	0.11	0.00	0.00	4.20	0.33	0.00	0.00
1.65	0.12	0.00	0.00	4.25	0.34	0.00	0.00
1.70	0.12	0.00	0.00	4.30	0.34	0.00	0.00
1.75	0.13	0.00	0.00	4.35	0.35	0.00	0.00
1.80	0.13	0.00	0.00	4.40	0.35	0.00	0.00
1.85	0.13	0.00	0.00	4.45	0.36	0.00	0.00
1.90	0.14	0.00	0.00	4.50	0.36	0.00	0.00
1.95	0.14	0.00	0.00	4.55	0.37	0.00	0.00
2.00	0.15	0.00	0.00	4.60	0.37	0.00	0.00
2.05	0.15	0.00	0.00	4.65	0.38	0.00	0.00
2.10	0.15	0.00	0.00	4.70	0.38	0.00	0.00
2.15	0.16	0.00	0.00	4.75	0.39	0.00	0.00
2.20	0.16	0.00	0.00	4.80	0.39	0.00	0.00
2.25	0.17	0.00	0.00	4.85	0.40	0.00	0.00
2.30	0.17	0.00	0.00	4.90	0.40	0.00	0.00
2.35	0.17	0.00	0.00	4.95	0.41	0.00	0.00
2.40	0.18	0.00	0.00	5.00	0.41	0.00	0.00
2.45	0.18	0.00	0.00	5.05	0.42	0.00	0.00
2.50	0.19	0.00	0.00	5.10	0.42	0.00	0.00
2.55	0.19	0.00	0.00	5.15	0.42	0.00	0.00

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.43	0.00	0.00	7.80	0.74	0.00	0.00
5.25	0.43	0.00	0.00	7.85	0.75	0.00	0.00
5.30	0.44	0.00	0.00	7.90	0.76	0.00	0.00
5.35	0.44	0.00	0.00	7.95	0.77	0.00	0.00
5.40	0.45	0.00	0.00	8.00	0.77	0.00	0.00
5.45	0.45	0.00	0.00	8.05	0.78	0.00	0.00
5.50	0.46	0.00	0.00	8.10	0.79	0.00	0.00
5.55	0.46	0.00	0.00	8.15	0.80	0.00	0.00
5.60	0.47	0.00	0.00	8.20	0.80	0.00	0.00
5.65	0.48	0.00	0.00	8.25	0.81	0.00	0.00
5.70	0.48	0.00	0.00	8.30	0.82	0.00	0.00
5.75	0.49	0.00	0.00	8.35	0.83	0.00	0.00
5.80	0.49	0.00	0.00	8.40	0.84	0.00	0.00
5.85	0.50	0.00	0.00	8.45	0.85	0.00	0.00
5.90	0.50	0.00	0.00	8.50	0.85	0.00	0.00
5.95	0.51	0.00	0.00	8.55	0.86	0.00	0.00
6.00	0.51	0.00	0.00	8.60	0.87	0.00	0.00
6.05	0.52	0.00	0.00	8.65	0.88	0.00	0.00
6.10	0.52	0.00	0.00	8.70	0.89	0.00	0.00
6.15	0.53	0.00	0.00	8.75	0.90	0.00	0.00
6.20	0.53	0.00	0.00	8.80	0.91	0.00	0.00
6.25	0.54	0.00	0.00	8.85	0.91	0.00	0.00
6.30	0.54	0.00	0.00	8.90	0.92	0.00	0.00
6.35	0.55	0.00	0.00	8.95	0.93	0.00	0.00
6.40	0.56	0.00	0.00	9.00	0.94	0.00	0.00
6.45	0.56	0.00	0.00	9.05	0.95	0.00	0.00
6.50	0.57	0.00	0.00	9.10	0.96	0.00	0.00
6.55	0.57	0.00	0.00	9.15	0.97	0.00	0.00
6.60	0.58	0.00	0.00	9.20	0.98	0.00	0.00
6.65	0.58	0.00	0.00	9.25	0.99	0.00	0.00
6.70	0.59	0.00	0.00	9.30	1.00	0.00	0.00
6.75	0.60	0.00	0.00	9.35	1.01	0.00	0.00
6.80	0.60	0.00	0.00	9.40	1.02	0.00	0.00
6.85	0.61	0.00	0.00	9.45	1.04	0.00	0.00
6.90	0.62	0.00	0.00	9.50	1.05	0.00	0.00
6.95	0.62	0.00	0.00	9.55	1.06	0.00	0.00
7.00	0.63	0.00	0.00	9.60	1.07	0.00	0.00
7.05	0.64	0.00	0.00	9.65	1.08	0.00	0.00
7.10	0.64	0.00	0.00	9.70	1.10	0.00	0.00
7.15	0.65	0.00	0.00	9.75	1.11	0.00	0.00
7.20	0.66	0.00	0.00	9.80	1.12	0.00	0.00
7.25	0.66	0.00	0.00	9.85	1.13	0.00	0.00
7.30	0.67	0.00	0.00	9.90	1.15	0.00	0.00
7.35	0.68	0.00	0.00	9.95	1.16	0.00	0.00
7.40	0.68	0.00	0.00	10.00	1.18	0.00	0.00
7.45	0.69	0.00	0.00	10.05	1.19	0.00	0.00
7.50	0.70	0.00	0.00	10.10	1.20	0.00	0.00
7.55	0.70	0.00	0.00	10.15	1.22	0.00	0.00
7.60	0.71	0.00	0.00	10.20	1.23	0.00	0.00
7.65	0.72	0.00	0.00	10.25	1.25	0.00	0.00
7.70	0.73	0.00	0.00	10.30	1.27	0.00	0.00
7.75	0.73	0.00	0.00	10.35	1.28	0.00	0.00

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.30	0.00	0.00	13.00	4.90	0.82	0.11
10.45	1.31	0.00	0.00	13.05	4.93	0.83	0.10
10.50	1.33	0.00	0.00	13.10	4.95	0.84	0.10
10.55	1.35	0.00	0.00	13.15	4.98	0.85	0.09
10.60	1.37	0.00	0.00	13.20	5.00	0.86	0.09
10.65	1.39	0.00	0.00	13.25	5.02	0.87	0.09
10.70	1.41	0.00	0.00	13.30	5.04	0.88	0.08
10.75	1.43	0.00	0.00	13.35	5.06	0.89	0.08
10.80	1.45	0.00	0.00	13.40	5.08	0.90	0.08
10.85	1.47	0.00	0.00	13.45	5.10	0.91	0.07
10.90	1.50	0.00	0.00	13.50	5.12	0.92	0.07
10.95	1.52	0.00	0.00	13.55	5.14	0.92	0.07
11.00	1.55	0.00	0.00	13.60	5.15	0.93	0.06
11.05	1.58	0.00	0.00	13.65	5.17	0.94	0.06
11.10	1.61	0.00	0.00	13.70	5.18	0.95	0.06
11.15	1.64	0.00	0.00	13.75	5.20	0.96	0.06
11.20	1.67	0.00	0.00	13.80	5.22	0.96	0.06
11.25	1.71	0.00	0.00	13.85	5.23	0.97	0.06
11.30	1.74	0.00	0.00	13.90	5.25	0.98	0.06
11.35	1.78	0.00	0.00	13.95	5.26	0.98	0.06
11.40	1.82	0.00	0.00	14.00	5.27	0.99	0.05
11.45	1.86	0.00	0.00	14.05	5.29	1.00	0.05
11.50	1.91	0.00	0.00	14.10	5.30	1.00	0.05
11.55	1.97	0.00	0.01	14.15	5.32	1.01	0.05
11.60	2.04	0.01	0.01	14.20	5.33	1.02	0.05
11.65	2.11	0.01	0.02	14.25	5.34	1.02	0.05
11.70	2.17	0.02	0.02	14.30	5.35	1.03	0.05
11.75	2.27	0.03	0.03	14.35	5.37	1.04	0.05
11.80	2.36	0.04	0.05	14.40	5.38	1.04	0.05
11.85	2.49	0.05	0.07	14.45	5.39	1.05	0.05
11.90	2.62	0.07	0.09	14.50	5.40	1.05	0.05
11.95	2.85	0.12	0.13	14.55	5.41	1.06	0.05
12.00	3.07	0.17	0.21	14.60	5.43	1.07	0.05
12.05	3.45	0.27	0.31	14.65	5.44	1.07	0.04
12.10	3.83	0.39	**0.50**	14.70	5.45	1.08	0.04
12.15	3.96	0.43	**0.60**	14.75	5.46	1.08	0.04
12.20	4.09	0.48	0.52	14.80	5.47	1.09	0.04
12.25	4.18	0.51	0.45	14.85	5.48	1.09	0.04
12.30	4.28	0.55	0.39	14.90	5.49	1.10	0.04
12.35	4.34	0.58	0.34	14.95	5.50	1.10	0.04
12.40	4.41	0.61	0.29	15.00	5.51	1.11	0.04
12.45	4.48	0.63	0.26	15.05	5.52	1.11	0.04
12.50	4.54	0.66	0.24	15.10	5.53	1.12	0.04
12.55	4.59	0.68	0.22	15.15	5.54	1.12	0.04
12.60	4.63	0.70	0.19	15.20	5.54	1.12	0.04
12.65	4.67	0.71	0.17	15.25	5.55	1.13	0.04
12.70	4.71	0.73	0.15	15.30	5.56	1.13	0.03
12.75	4.74	0.74	0.14	15.35	5.57	1.14	0.03
12.80	4.78	0.76	0.13	15.40	5.58	1.14	0.03
12.85	4.81	0.78	0.13	15.45	5.59	1.15	0.03
12.90	4.84	0.79	0.12	15.50	5.60	1.15	0.03
12.95	4.87	0.80	0.12	15.55	5.60	1.16	0.03

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.61	1.16	0.03	18.20	5.96	1.34	0.02
15.65	5.62	1.16	0.03	18.25	5.96	1.35	0.02
15.70	5.63	1.17	0.03	18.30	5.97	1.35	0.02
15.75	5.64	1.17	0.03	18.35	5.97	1.35	0.02
15.80	5.65	1.18	0.03	18.40	5.98	1.35	0.02
15.85	5.65	1.18	0.03	18.45	5.99	1.36	0.02
15.90	5.66	1.19	0.03	18.50	5.99	1.36	0.02
15.95	5.67	1.19	0.03	18.55	6.00	1.36	0.02
16.00	5.68	1.19	0.03	18.60	6.00	1.36	0.02
16.05	5.68	1.20	0.03	18.65	6.01	1.37	0.02
16.10	5.69	1.20	0.03	18.70	6.01	1.37	0.02
16.15	5.70	1.21	0.03	18.75	6.02	1.37	0.02
16.20	5.71	1.21	0.03	18.80	6.02	1.38	0.02
16.25	5.72	1.21	0.03	18.85	6.03	1.38	0.02
16.30	5.72	1.22	0.03	18.90	6.03	1.38	0.02
16.35	5.73	1.22	0.03	18.95	6.03	1.38	0.02
16.40	5.74	1.22	0.03	19.00	6.04	1.39	0.02
16.45	5.75	1.23	0.03	19.05	6.04	1.39	0.02
16.50	5.75	1.23	0.03	19.10	6.05	1.39	0.02
16.55	5.76	1.24	0.03	19.15	6.05	1.39	0.02
16.60	5.77	1.24	0.03	19.20	6.06	1.40	0.02
16.65	5.77	1.24	0.03	19.25	6.06	1.40	0.02
16.70	5.78	1.25	0.03	19.30	6.07	1.40	0.02
16.75	5.79	1.25	0.03	19.35	6.07	1.40	0.02
16.80	5.79	1.25	0.03	19.40	6.08	1.41	0.02
16.85	5.80	1.26	0.03	19.45	6.08	1.41	0.02
16.90	5.81	1.26	0.03	19.50	6.09	1.41	0.02
16.95	5.81	1.26	0.03	19.55	6.09	1.41	0.02
17.00	5.82	1.27	0.03	19.60	6.10	1.42	0.02
17.05	5.83	1.27	0.03	19.65	6.10	1.42	0.02
17.10	5.83	1.28	0.03	19.70	6.11	1.42	0.02
17.15	5.84	1.28	0.03	19.75	6.11	1.42	0.02
17.20	5.85	1.28	0.03	19.80	6.12	1.43	0.02
17.25	5.85	1.29	0.03	19.85	6.12	1.43	0.02
17.30	5.86	1.29	0.03	19.90	6.13	1.43	0.02
17.35	5.87	1.29	0.03	19.95	6.13	1.43	0.02
17.40	5.87	1.29	0.03	20.00	6.13	1.44	0.02
17.45	5.88	1.30	0.03	20.05	6.14	1.44	0.02
17.50	5.88	1.30	0.02	20.10	6.14	1.44	0.02
17.55	5.89	1.30	0.02	20.15	6.15	1.44	0.02
17.60	5.89	1.31	0.02	20.20	6.15	1.45	0.02
17.65	5.90	1.31	0.02	20.25	6.16	1.45	0.02
17.70	5.91	1.31	0.02	20.30	6.16	1.45	0.02
17.75	5.91	1.32	0.02	20.35	6.17	1.45	0.02
17.80	5.92	1.32	0.02	20.40	6.17	1.46	0.02
17.85	5.92	1.32	0.02	20.45	6.17	1.46	0.02
17.90	5.93	1.33	0.02	20.50	6.18	1.46	0.02
17.95	5.93	1.33	0.02	20.55	6.18	1.46	0.02
18.00	5.94	1.33	0.02	20.60	6.19	1.47	0.02
18.05	5.94	1.33	0.02	20.65	6.19	1.47	0.02
18.10	5.95	1.34	0.02	20.70	6.20	1.47	0.02
18.15	5.95	1.34	0.02	20.75	6.20	1.47	0.02

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	6.21	1.48	0.02	23.40	6.41	1.59	0.02
20.85	6.21	1.48	0.02	23.45	6.41	1.59	0.02
20.90	6.21	1.48	0.02	23.50	6.41	1.59	0.02
20.95	6.22	1.48	0.02	23.55	6.42	1.60	0.02
21.00	6.22	1.49	0.02	23.60	6.42	1.60	0.02
21.05	6.23	1.49	0.02	23.65	6.42	1.60	0.01
21.10	6.23	1.49	0.02	23.70	6.43	1.60	0.01
21.15	6.24	1.49	0.02	23.75	6.43	1.60	0.01
21.20	6.24	1.50	0.02	23.80	6.44	1.61	0.01
21.25	6.24	1.50	0.02	23.85	6.44	1.61	0.01
21.30	6.25	1.50	0.02	23.90	6.44	1.61	0.01
21.35	6.25	1.50	0.02	23.95	6.45	1.61	0.01
21.40	6.26	1.50	0.02	24.00	**6.45**	**1.61**	0.02
21.45	6.26	1.51	0.02				
21.50	6.26	1.51	0.02				
21.55	6.27	1.51	0.02				
21.60	6.27	1.51	0.02				
21.65	6.28	1.52	0.02				
21.70	6.28	1.52	0.02				
21.75	6.28	1.52	0.02				
21.80	6.29	1.52	0.02				
21.85	6.29	1.53	0.02				
21.90	6.30	1.53	0.02				
21.95	6.30	1.53	0.02				
22.00	6.30	1.53	0.02				
22.05	6.31	1.53	0.02				
22.10	6.31	1.54	0.02				
22.15	6.32	1.54	0.02				
22.20	6.32	1.54	0.02				
22.25	6.32	1.54	0.02				
22.30	6.33	1.55	0.02				
22.35	6.33	1.55	0.02				
22.40	6.34	1.55	0.02				
22.45	6.34	1.55	0.02				
22.50	6.34	1.55	0.02				
22.55	6.35	1.56	0.02				
22.60	6.35	1.56	0.02				
22.65	6.35	1.56	0.02				
22.70	6.36	1.56	0.02				
22.75	6.36	1.56	0.02				
22.80	6.36	1.57	0.02				
22.85	6.37	1.57	0.02				
22.90	6.37	1.57	0.02				
22.95	6.38	1.57	0.02				
23.00	6.38	1.57	0.02				
23.05	6.38	1.58	0.02				
23.10	6.39	1.58	0.02				
23.15	6.39	1.58	0.02				
23.20	6.39	1.58	0.02				
23.25	6.40	1.58	0.02				
23.30	6.40	1.59	0.02				
23.35	6.40	1.59	0.02				

Summary for Subcatchment EDA1A IMP: EDA1A IMP

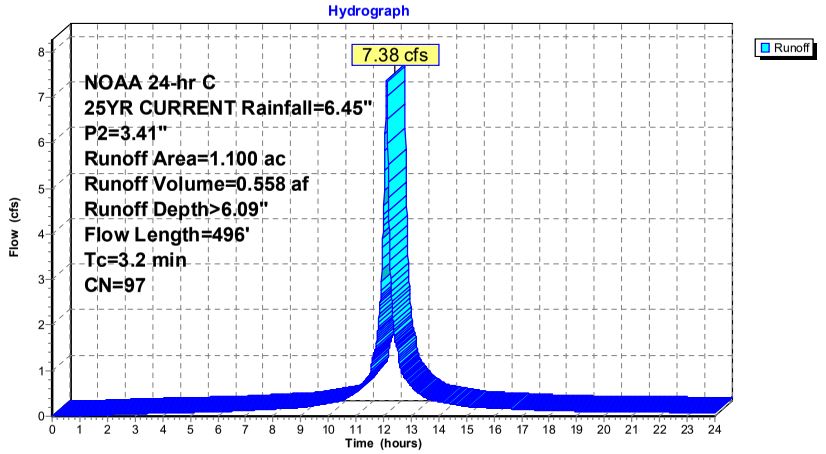
Runoff = 7.38 cfs @ 12.11 hrs, Volume= 0.558 af, Depth> 6.09"
Routed to Link E1A : E1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR CURRENT Rainfall=6.45", P2=3.41"

	Area (ac)	CN	Description
	0.350	96	Gravel surface, HSG D
*	0.570	98	Impervious vehicular
*	0.180	98	Impervious non vehicular
	1.100	97	Weighted Average
	0.350		31.82% Pervious Area
	0.750		68.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	100	0.0100	1.08		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
3.2	496	Total			

Subcatchment EDA1A IMP: EDA1A IMP



Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.04	0.04
0.05	0.00	0.00	0.00	2.65	0.20	0.04	0.05
0.10	0.01	0.00	0.00	2.70	0.20	0.04	0.05
0.15	0.01	0.00	0.00	2.75	0.21	0.05	0.05
0.20	0.01	0.00	0.00	2.80	0.21	0.05	0.05
0.25	0.02	0.00	0.00	2.85	0.21	0.05	0.05
0.30	0.02	0.00	0.00	2.90	0.22	0.05	0.05
0.35	0.03	0.00	0.00	2.95	0.22	0.06	0.05
0.40	0.03	0.00	0.00	3.00	0.23	0.06	0.05
0.45	0.03	0.00	0.00	3.05	0.23	0.06	0.05
0.50	0.04	0.00	0.00	3.10	0.24	0.06	0.05
0.55	0.04	0.00	0.00	3.15	0.24	0.07	0.06
0.60	0.04	0.00	0.00	3.20	0.24	0.07	0.06
0.65	0.05	0.00	0.00	3.25	0.25	0.07	0.06
0.70	0.05	0.00	0.00	3.30	0.25	0.07	0.06
0.75	0.05	0.00	0.00	3.35	0.26	0.08	0.06
0.80	0.06	0.00	0.00	3.40	0.26	0.08	0.06
0.85	0.06	0.00	0.00	3.45	0.27	0.08	0.06
0.90	0.06	0.00	0.00	3.50	0.27	0.08	0.06
0.95	0.07	0.00	0.00	3.55	0.28	0.09	0.06
1.00	0.07	0.00	0.00	3.60	0.28	0.09	0.06
1.05	0.07	0.00	0.00	3.65	0.28	0.09	0.06
1.10	0.08	0.00	0.00	3.70	0.29	0.10	0.06
1.15	0.08	0.00	0.01	3.75	0.29	0.10	0.07
1.20	0.09	0.00	0.01	3.80	0.30	0.10	0.07
1.25	0.09	0.00	0.01	3.85	0.30	0.10	0.07
1.30	0.09	0.00	0.01	3.90	0.31	0.11	0.07
1.35	0.10	0.00	0.01	3.95	0.31	0.11	0.07
1.40	0.10	0.00	0.01	4.00	0.32	0.11	0.07
1.45	0.10	0.00	0.02	4.05	0.32	0.12	0.07
1.50	0.11	0.01	0.02	4.10	0.32	0.12	0.07
1.55	0.11	0.01	0.02	4.15	0.33	0.12	0.07
1.60	0.11	0.01	0.02	4.20	0.33	0.13	0.07
1.65	0.12	0.01	0.02	4.25	0.34	0.13	0.07
1.70	0.12	0.01	0.02	4.30	0.34	0.13	0.07
1.75	0.13	0.01	0.02	4.35	0.35	0.14	0.07
1.80	0.13	0.01	0.03	4.40	0.35	0.14	0.08
1.85	0.13	0.01	0.03	4.45	0.36	0.14	0.08
1.90	0.14	0.02	0.03	4.50	0.36	0.15	0.08
1.95	0.14	0.02	0.03	4.55	0.37	0.15	0.08
2.00	0.15	0.02	0.03	4.60	0.37	0.16	0.08
2.05	0.15	0.02	0.03	4.65	0.38	0.16	0.08
2.10	0.15	0.02	0.03	4.70	0.38	0.16	0.08
2.15	0.16	0.02	0.03	4.75	0.39	0.17	0.08
2.20	0.16	0.02	0.04	4.80	0.39	0.17	0.08
2.25	0.17	0.03	0.04	4.85	0.40	0.17	0.08
2.30	0.17	0.03	0.04	4.90	0.40	0.18	0.08
2.35	0.17	0.03	0.04	4.95	0.41	0.18	0.08
2.40	0.18	0.03	0.04	5.00	0.41	0.18	0.08
2.45	0.18	0.03	0.04	5.05	0.42	0.19	0.08
2.50	0.19	0.04	0.04	5.10	0.42	0.19	0.08
2.55	0.19	0.04	0.04	5.15	0.42	0.20	0.09

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.43	0.20	0.09	7.80	0.74	0.47	0.15
5.25	0.43	0.20	0.09	7.85	0.75	0.47	0.15
5.30	0.44	0.21	0.09	7.90	0.76	0.48	0.15
5.35	0.44	0.21	0.09	7.95	0.77	0.49	0.15
5.40	0.45	0.22	0.09	8.00	0.77	0.50	0.16
5.45	0.45	0.22	0.09	8.05	0.78	0.50	0.16
5.50	0.46	0.22	0.09	8.10	0.79	0.51	0.16
5.55	0.46	0.23	0.09	8.15	0.80	0.52	0.16
5.60	0.47	0.23	0.09	8.20	0.80	0.52	0.16
5.65	0.48	0.24	0.09	8.25	0.81	0.53	0.16
5.70	0.48	0.24	0.09	8.30	0.82	0.54	0.16
5.75	0.49	0.24	0.09	8.35	0.83	0.55	0.17
5.80	0.49	0.25	0.09	8.40	0.84	0.55	0.17
5.85	0.50	0.25	0.09	8.45	0.85	0.56	0.17
5.90	0.50	0.26	0.09	8.50	0.85	0.57	0.17
5.95	0.51	0.26	0.09	8.55	0.86	0.58	0.17
6.00	0.51	0.27	0.10	8.60	0.87	0.59	0.17
6.05	0.52	0.27	0.10	8.65	0.88	0.59	0.18
6.10	0.52	0.28	0.10	8.70	0.89	0.60	0.18
6.15	0.53	0.28	0.10	8.75	0.90	0.61	0.18
6.20	0.53	0.28	0.10	8.80	0.91	0.62	0.18
6.25	0.54	0.29	0.10	8.85	0.91	0.63	0.18
6.30	0.54	0.29	0.10	8.90	0.92	0.63	0.18
6.35	0.55	0.30	0.11	8.95	0.93	0.64	0.18
6.40	0.56	0.30	0.11	9.00	0.94	0.65	0.19
6.45	0.56	0.31	0.11	9.05	0.95	0.66	0.19
6.50	0.57	0.31	0.11	9.10	0.96	0.67	0.19
6.55	0.57	0.32	0.11	9.15	0.97	0.68	0.20
6.60	0.58	0.32	0.11	9.20	0.98	0.69	0.20
6.65	0.58	0.33	0.11	9.25	0.99	0.70	0.21
6.70	0.59	0.33	0.12	9.30	1.00	0.71	0.21
6.75	0.60	0.34	0.12	9.35	1.01	0.72	0.22
6.80	0.60	0.34	0.12	9.40	1.02	0.73	0.23
6.85	0.61	0.35	0.12	9.45	1.04	0.74	0.23
6.90	0.62	0.36	0.12	9.50	1.05	0.75	0.24
6.95	0.62	0.36	0.12	9.55	1.06	0.76	0.24
7.00	0.63	0.37	0.12	9.60	1.07	0.77	0.25
7.05	0.64	0.37	0.13	9.65	1.08	0.78	0.25
7.10	0.64	0.38	0.13	9.70	1.10	0.80	0.26
7.15	0.65	0.38	0.13	9.75	1.11	0.81	0.26
7.20	0.66	0.39	0.13	9.80	1.12	0.82	0.27
7.25	0.66	0.40	0.13	9.85	1.13	0.83	0.27
7.30	0.67	0.40	0.13	9.90	1.15	0.85	0.28
7.35	0.68	0.41	0.14	9.95	1.16	0.86	0.28
7.40	0.68	0.42	0.14	10.00	1.18	0.87	0.29
7.45	0.69	0.42	0.14	10.05	1.19	0.89	0.30
7.50	0.70	0.43	0.14	10.10	1.20	0.90	0.30
7.55	0.70	0.43	0.14	10.15	1.22	0.91	0.31
7.60	0.71	0.44	0.14	10.20	1.23	0.93	0.31
7.65	0.72	0.45	0.14	10.25	1.25	0.94	0.32
7.70	0.73	0.45	0.15	10.30	1.27	0.96	0.32
7.75	0.73	0.46	0.15	10.35	1.28	0.97	0.33

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.30	0.99	0.33	13.00	4.90	4.55	0.67
10.45	1.31	1.00	0.34	13.05	4.93	4.57	0.63
10.50	1.33	1.02	0.34	13.10	4.95	4.60	0.59
10.55	1.35	1.04	0.36	13.15	4.98	4.62	0.56
10.60	1.37	1.05	0.38	13.20	5.00	4.65	0.54
10.65	1.39	1.07	0.40	13.25	5.02	4.67	0.52
10.70	1.41	1.09	0.41	13.30	5.04	4.69	0.50
10.75	1.43	1.11	0.44	13.35	5.06	4.71	0.47
10.80	1.45	1.13	0.45	13.40	5.08	4.73	0.46
10.85	1.47	1.16	0.48	13.45	5.10	4.75	0.43
10.90	1.50	1.18	0.50	13.50	5.12	4.77	0.42
10.95	1.52	1.21	0.52	13.55	5.14	4.78	0.39
11.00	1.55	1.23	0.54	13.60	5.15	4.80	0.37
11.05	1.58	1.26	0.57	13.65	5.17	4.82	0.36
11.10	1.61	1.29	0.60	13.70	5.18	4.83	0.35
11.15	1.64	1.32	0.64	13.75	5.20	4.85	0.35
11.20	1.67	1.35	0.68	13.80	5.22	4.86	0.34
11.25	1.71	1.38	0.72	13.85	5.23	4.88	0.34
11.30	1.74	1.42	0.75	13.90	5.25	4.89	0.33
11.35	1.78	1.46	0.79	13.95	5.26	4.91	0.33
11.40	1.82	1.50	0.83	14.00	5.27	4.92	0.32
11.45	1.86	1.54	0.86	14.05	5.29	4.93	0.32
11.50	1.91	1.58	0.89	14.10	5.30	4.95	0.31
11.55	1.97	1.64	1.08	14.15	5.32	4.96	0.30
11.60	2.04	1.71	1.27	14.20	5.33	4.97	0.30
11.65	2.11	1.77	1.38	14.25	5.34	4.99	0.29
11.70	2.17	1.84	1.45	14.30	5.35	5.00	0.29
11.75	2.27	1.93	1.67	14.35	5.37	5.01	0.28
11.80	2.36	2.03	1.89	14.40	5.38	5.03	0.28
11.85	2.49	2.16	2.26	14.45	5.39	5.04	0.27
11.90	2.62	2.29	2.61	14.50	5.40	5.05	0.27
11.95	2.85	2.51	3.48	14.55	5.41	5.06	0.26
12.00	3.07	2.73	4.32	14.60	5.43	5.07	0.26
12.05	3.45	3.11	5.84	14.65	5.44	5.08	0.25
12.10	3.83	3.48	**7.24**	14.70	5.45	5.09	0.25
12.15	3.96	3.61	**6.00**	14.75	5.46	5.10	0.24
12.20	4.09	3.74	4.28	14.80	5.47	5.11	0.24
12.25	4.18	3.83	3.21	14.85	5.48	5.12	0.23
12.30	4.28	3.93	2.53	14.90	5.49	5.13	0.22
12.35	4.34	3.99	2.05	14.95	5.50	5.14	0.22
12.40	4.41	4.06	1.73	15.00	5.51	5.15	0.21
12.45	4.48	4.13	1.57	15.05	5.52	5.16	0.21
12.50	4.54	4.19	1.49	15.10	5.53	5.17	0.20
12.55	4.59	4.23	1.28	15.15	5.54	5.18	0.20
12.60	4.63	4.28	1.08	15.20	5.54	5.19	0.20
12.65	4.67	4.32	0.97	15.25	5.55	5.20	0.20
12.70	4.71	4.36	0.91	15.30	5.56	5.21	0.20
12.75	4.74	4.39	0.86	15.35	5.57	5.22	0.19
12.80	4.78	4.43	0.82	15.40	5.58	5.22	0.19
12.85	4.81	4.46	0.78	15.45	5.59	5.23	0.19
12.90	4.84	4.49	0.74	15.50	5.60	5.24	0.19
12.95	4.87	4.52	0.70	15.55	5.60	5.25	0.19

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.61	5.26	0.19	18.20	5.96	5.60	0.11
15.65	5.62	5.27	0.19	18.25	5.96	5.61	0.11
15.70	5.63	5.27	0.18	18.30	5.97	5.61	0.11
15.75	5.64	5.28	0.18	18.35	5.97	5.62	0.11
15.80	5.65	5.29	0.18	18.40	5.98	5.62	0.11
15.85	5.65	5.30	0.18	18.45	5.99	5.63	0.11
15.90	5.66	5.31	0.18	18.50	5.99	5.63	0.11
15.95	5.67	5.31	0.18	18.55	6.00	5.64	0.11
16.00	5.68	5.32	0.18	18.60	6.00	5.64	0.11
16.05	5.68	5.33	0.17	18.65	6.01	5.65	0.11
16.10	5.69	5.34	0.17	18.70	6.01	5.65	0.11
16.15	5.70	5.35	0.17	18.75	6.02	5.66	0.11
16.20	5.71	5.35	0.17	18.80	6.02	5.66	0.11
16.25	5.72	5.36	0.17	18.85	6.03	5.67	0.11
16.30	5.72	5.37	0.17	18.90	6.03	5.67	0.11
16.35	5.73	5.38	0.17	18.95	6.03	5.68	0.11
16.40	5.74	5.38	0.16	19.00	6.04	5.68	0.11
16.45	5.75	5.39	0.16	19.05	6.04	5.69	0.11
16.50	5.75	5.40	0.16	19.10	6.05	5.69	0.11
16.55	5.76	5.40	0.16	19.15	6.05	5.70	0.11
16.60	5.77	5.41	0.16	19.20	6.06	5.70	0.11
16.65	5.77	5.42	0.16	19.25	6.06	5.71	0.11
16.70	5.78	5.43	0.16	19.30	6.07	5.71	0.11
16.75	5.79	5.43	0.15	19.35	6.07	5.72	0.11
16.80	5.79	5.44	0.15	19.40	6.08	5.72	0.11
16.85	5.80	5.45	0.15	19.45	6.08	5.73	0.11
16.90	5.81	5.45	0.15	19.50	6.09	5.73	0.11
16.95	5.81	5.46	0.15	19.55	6.09	5.74	0.10
17.00	5.82	5.47	0.15	19.60	6.10	5.74	0.10
17.05	5.83	5.47	0.15	19.65	6.10	5.75	0.10
17.10	5.83	5.48	0.14	19.70	6.11	5.75	0.10
17.15	5.84	5.48	0.14	19.75	6.11	5.76	0.10
17.20	5.85	5.49	0.14	19.80	6.12	5.76	0.10
17.25	5.85	5.50	0.14	19.85	6.12	5.76	0.10
17.30	5.86	5.50	0.14	19.90	6.13	5.77	0.10
17.35	5.87	5.51	0.14	19.95	6.13	5.77	0.10
17.40	5.87	5.52	0.14	20.00	6.13	5.78	0.10
17.45	5.88	5.52	0.13	20.05	6.14	5.78	0.10
17.50	5.88	5.53	0.13	20.10	6.14	5.79	0.10
17.55	5.89	5.53	0.13	20.15	6.15	5.79	0.10
17.60	5.89	5.54	0.13	20.20	6.15	5.80	0.10
17.65	5.90	5.54	0.13	20.25	6.16	5.80	0.10
17.70	5.91	5.55	0.13	20.30	6.16	5.81	0.10
17.75	5.91	5.56	0.13	20.35	6.17	5.81	0.10
17.80	5.92	5.56	0.12	20.40	6.17	5.81	0.10
17.85	5.92	5.57	0.12	20.45	6.17	5.82	0.10
17.90	5.93	5.57	0.12	20.50	6.18	5.82	0.10
17.95	5.93	5.58	0.12	20.55	6.18	5.83	0.10
18.00	5.94	5.58	0.12	20.60	6.19	5.83	0.10
18.05	5.94	5.59	0.12	20.65	6.19	5.84	0.10
18.10	5.95	5.59	0.12	20.70	6.20	5.84	0.10
18.15	5.95	5.60	0.12	20.75	6.20	5.84	0.10

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	6.21	5.85	0.10	23.40	6.41	6.05	0.08
20.85	6.21	5.85	0.10	23.45	6.41	6.05	0.08
20.90	6.21	5.86	0.10	23.50	6.41	6.06	0.08
20.95	6.22	5.86	0.09	23.55	6.42	6.06	0.08
21.00	6.22	5.87	0.09	23.60	6.42	6.06	0.08
21.05	6.23	5.87	0.09	23.65	6.42	6.07	0.08
21.10	6.23	5.87	0.09	23.70	6.43	6.07	0.08
21.15	6.24	5.88	0.09	23.75	6.43	6.07	0.08
21.20	6.24	5.88	0.09	23.80	6.44	6.08	0.07
21.25	6.24	5.89	0.09	23.85	6.44	6.08	0.07
21.30	6.25	5.89	0.09	23.90	6.44	6.08	0.07
21.35	6.25	5.90	0.09	23.95	6.45	6.09	0.08
21.40	6.26	5.90	0.09	24.00	**6.45**	**6.09**	0.09
21.45	6.26	5.90	0.09				
21.50	6.26	5.91	0.09				
21.55	6.27	5.91	0.09				
21.60	6.27	5.92	0.09				
21.65	6.28	5.92	0.09				
21.70	6.28	5.92	0.09				
21.75	6.28	5.93	0.09				
21.80	6.29	5.93	0.09				
21.85	6.29	5.94	0.09				
21.90	6.30	5.94	0.09				
21.95	6.30	5.94	0.09				
22.00	6.30	5.95	0.09				
22.05	6.31	5.95	0.09				
22.10	6.31	5.96	0.09				
22.15	6.32	5.96	0.09				
22.20	6.32	5.96	0.09				
22.25	6.32	5.97	0.09				
22.30	6.33	5.97	0.09				
22.35	6.33	5.97	0.08				
22.40	6.34	5.98	0.08				
22.45	6.34	5.98	0.08				
22.50	6.34	5.99	0.08				
22.55	6.35	5.99	0.08				
22.60	6.35	5.99	0.08				
22.65	6.35	6.00	0.08				
22.70	6.36	6.00	0.08				
22.75	6.36	6.00	0.08				
22.80	6.36	6.01	0.08				
22.85	6.37	6.01	0.08				
22.90	6.37	6.02	0.08				
22.95	6.38	6.02	0.08				
23.00	6.38	6.02	0.08				
23.05	6.38	6.03	0.08				
23.10	6.39	6.03	0.08				
23.15	6.39	6.03	0.08				
23.20	6.39	6.04	0.08				
23.25	6.40	6.04	0.08				
23.30	6.40	6.04	0.08				
23.35	6.40	6.05	0.08				

Summary for Subcatchment EDA1A PERV: EDA-1A PERV

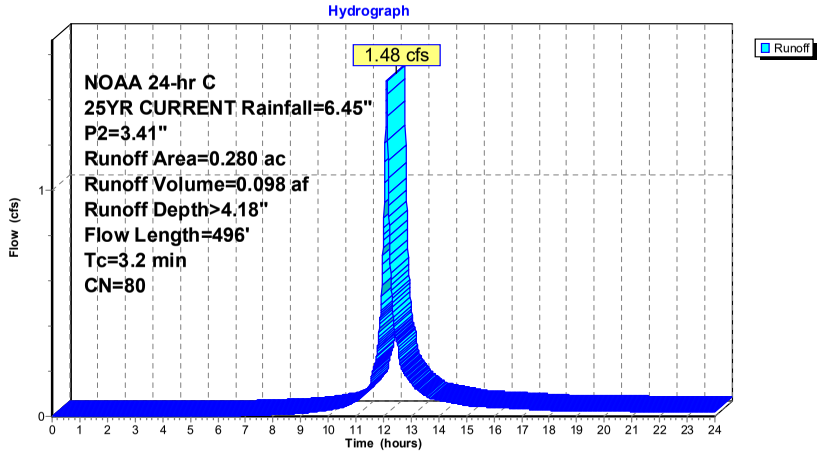
Runoff = 1.48 cfs @ 12.11 hrs, Volume= 0.098 af, Depth> 4.18"
Routed to Link E1A : E1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR CURRENT Rainfall=6.45", P2=3.41"

Area (ac)	CN	Description
0.280	80	>75% Grass cover, Good, HSG D
0.280		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	100	0.0100	1.08		**Sheet Flow, paved** Smooth surfaces n= 0.011 P2= 3.41"
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP-2 Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
3.2	496	Total			

Subcatchment EDA1A PERV: EDA-1A PERV



Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.20	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.20	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.21	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.21	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.21	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.22	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.22	0.00	0.00
0.40	0.03	0.00	0.00	3.00	0.23	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.23	0.00	0.00
0.50	0.04	0.00	0.00	3.10	0.24	0.00	0.00
0.55	0.04	0.00	0.00	3.15	0.24	0.00	0.00
0.60	0.04	0.00	0.00	3.20	0.24	0.00	0.00
0.65	0.05	0.00	0.00	3.25	0.25	0.00	0.00
0.70	0.05	0.00	0.00	3.30	0.25	0.00	0.00
0.75	0.05	0.00	0.00	3.35	0.26	0.00	0.00
0.80	0.06	0.00	0.00	3.40	0.26	0.00	0.00
0.85	0.06	0.00	0.00	3.45	0.27	0.00	0.00
0.90	0.06	0.00	0.00	3.50	0.27	0.00	0.00
0.95	0.07	0.00	0.00	3.55	0.28	0.00	0.00
1.00	0.07	0.00	0.00	3.60	0.28	0.00	0.00
1.05	0.07	0.00	0.00	3.65	0.28	0.00	0.00
1.10	0.08	0.00	0.00	3.70	0.29	0.00	0.00
1.15	0.08	0.00	0.00	3.75	0.29	0.00	0.00
1.20	0.09	0.00	0.00	3.80	0.30	0.00	0.00
1.25	0.09	0.00	0.00	3.85	0.30	0.00	0.00
1.30	0.09	0.00	0.00	3.90	0.31	0.00	0.00
1.35	0.10	0.00	0.00	3.95	0.31	0.00	0.00
1.40	0.10	0.00	0.00	4.00	0.32	0.00	0.00
1.45	0.10	0.00	0.00	4.05	0.32	0.00	0.00
1.50	0.11	0.00	0.00	4.10	0.32	0.00	0.00
1.55	0.11	0.00	0.00	4.15	0.33	0.00	0.00
1.60	0.11	0.00	0.00	4.20	0.33	0.00	0.00
1.65	0.12	0.00	0.00	4.25	0.34	0.00	0.00
1.70	0.12	0.00	0.00	4.30	0.34	0.00	0.00
1.75	0.13	0.00	0.00	4.35	0.35	0.00	0.00
1.80	0.13	0.00	0.00	4.40	0.35	0.00	0.00
1.85	0.13	0.00	0.00	4.45	0.36	0.00	0.00
1.90	0.14	0.00	0.00	4.50	0.36	0.00	0.00
1.95	0.14	0.00	0.00	4.55	0.37	0.00	0.00
2.00	0.15	0.00	0.00	4.60	0.37	0.00	0.00
2.05	0.15	0.00	0.00	4.65	0.38	0.00	0.00
2.10	0.15	0.00	0.00	4.70	0.38	0.00	0.00
2.15	0.16	0.00	0.00	4.75	0.39	0.00	0.00
2.20	0.16	0.00	0.00	4.80	0.39	0.00	0.00
2.25	0.17	0.00	0.00	4.85	0.40	0.00	0.00
2.30	0.17	0.00	0.00	4.90	0.40	0.00	0.00
2.35	0.17	0.00	0.00	4.95	0.41	0.00	0.00
2.40	0.18	0.00	0.00	5.00	0.41	0.00	0.00
2.45	0.18	0.00	0.00	5.05	0.42	0.00	0.00
2.50	0.19	0.00	0.00	5.10	0.42	0.00	0.00
2.55	0.19	0.00	0.00	5.15	0.42	0.00	0.00

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.43	0.00	0.00	7.80	0.74	0.02	0.01
5.25	0.43	0.00	0.00	7.85	0.75	0.02	0.01
5.30	0.44	0.00	0.00	7.90	0.76	0.02	0.01
5.35	0.44	0.00	0.00	7.95	0.77	0.03	0.01
5.40	0.45	0.00	0.00	8.00	0.77	0.03	0.01
5.45	0.45	0.00	0.00	8.05	0.78	0.03	0.01
5.50	0.46	0.00	0.00	8.10	0.79	0.03	0.01
5.55	0.46	0.00	0.00	8.15	0.80	0.03	0.01
5.60	0.47	0.00	0.00	8.20	0.80	0.03	0.01
5.65	0.48	0.00	0.00	8.25	0.81	0.03	0.01
5.70	0.48	0.00	0.00	8.30	0.82	0.04	0.01
5.75	0.49	0.00	0.00	8.35	0.83	0.04	0.01
5.80	0.49	0.00	0.00	8.40	0.84	0.04	0.01
5.85	0.50	0.00	0.00	8.45	0.85	0.04	0.01
5.90	0.50	0.00	0.00	8.50	0.85	0.04	0.01
5.95	0.51	0.00	0.00	8.55	0.86	0.05	0.01
6.00	0.51	0.00	0.00	8.60	0.87	0.05	0.01
6.05	0.52	0.00	0.00	8.65	0.88	0.05	0.01
6.10	0.52	0.00	0.00	8.70	0.89	0.05	0.01
6.15	0.53	0.00	0.00	8.75	0.90	0.05	0.01
6.20	0.53	0.00	0.00	8.80	0.91	0.06	0.01
6.25	0.54	0.00	0.00	8.85	0.91	0.06	0.01
6.30	0.54	0.00	0.00	8.90	0.92	0.06	0.01
6.35	0.55	0.00	0.00	8.95	0.93	0.06	0.01
6.40	0.56	0.00	0.00	9.00	0.94	0.07	0.01
6.45	0.56	0.00	0.00	9.05	0.95	0.07	0.01
6.50	0.57	0.00	0.00	9.10	0.96	0.07	0.01
6.55	0.57	0.00	0.00	9.15	0.97	0.07	0.02
6.60	0.58	0.00	0.00	9.20	0.98	0.08	0.02
6.65	0.58	0.00	0.00	9.25	0.99	0.08	0.02
6.70	0.59	0.00	0.00	9.30	1.00	0.08	0.02
6.75	0.60	0.00	0.00	9.35	1.01	0.09	0.02
6.80	0.60	0.00	0.00	9.40	1.02	0.09	0.02
6.85	0.61	0.00	0.00	9.45	1.04	0.09	0.02
6.90	0.62	0.01	0.00	9.50	1.05	0.10	0.02
6.95	0.62	0.01	0.00	9.55	1.06	0.10	0.02
7.00	0.63	0.01	0.00	9.60	1.07	0.11	0.02
7.05	0.64	0.01	0.00	9.65	1.08	0.11	0.02
7.10	0.64	0.01	0.00	9.70	1.10	0.11	0.02
7.15	0.65	0.01	0.00	9.75	1.11	0.12	0.02
7.20	0.66	0.01	0.00	9.80	1.12	0.12	0.03
7.25	0.66	0.01	0.00	9.85	1.13	0.13	0.03
7.30	0.67	0.01	0.00	9.90	1.15	0.13	0.03
7.35	0.68	0.01	0.00	9.95	1.16	0.14	0.03
7.40	0.68	0.01	0.00	10.00	1.18	0.14	0.03
7.45	0.69	0.01	0.01	10.05	1.19	0.15	0.03
7.50	0.70	0.01	0.01	10.10	1.20	0.15	0.03
7.55	0.70	0.02	0.01	10.15	1.22	0.16	0.03
7.60	0.71	0.02	0.01	10.20	1.23	0.17	0.03
7.65	0.72	0.02	0.01	10.25	1.25	0.17	0.03
7.70	0.73	0.02	0.01	10.30	1.27	0.18	0.03
7.75	0.73	0.02	0.01	10.35	1.28	0.19	0.04

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.30	0.19	0.04	13.00	4.90	2.81	0.15
10.45	1.31	0.20	0.04	13.05	4.93	2.83	0.14
10.50	1.33	0.21	0.04	13.10	4.95	2.85	0.13
10.55	1.35	0.21	0.04	13.15	4.98	2.87	0.12
10.60	1.37	0.22	0.04	13.20	5.00	2.89	0.12
10.65	1.39	0.23	0.05	13.25	5.02	2.91	0.11
10.70	1.41	0.24	0.05	13.30	5.04	2.93	0.11
10.75	1.43	0.25	0.05	13.35	5.06	2.95	0.11
10.80	1.45	0.26	0.06	13.40	5.08	2.97	0.10
10.85	1.47	0.27	0.06	13.45	5.10	2.98	0.10
10.90	1.50	0.28	0.06	13.50	5.12	3.00	0.09
10.95	1.52	0.30	0.07	13.55	5.14	3.01	0.09
11.00	1.55	0.31	0.07	13.60	5.15	3.03	0.08
11.05	1.58	0.32	0.07	13.65	5.17	3.04	0.08
11.10	1.61	0.34	0.08	13.70	5.18	3.05	0.08
11.15	1.64	0.36	0.09	13.75	5.20	3.07	0.08
11.20	1.67	0.37	0.09	13.80	5.22	3.08	0.08
11.25	1.71	0.39	0.10	13.85	5.23	3.09	0.08
11.30	1.74	0.41	0.11	13.90	5.25	3.11	0.07
11.35	1.78	0.43	0.11	13.95	5.26	3.12	0.07
11.40	1.82	0.46	0.12	14.00	5.27	3.13	0.07
11.45	1.86	0.48	0.13	14.05	5.29	3.15	0.07
11.50	1.91	0.51	0.13	14.10	5.30	3.16	0.07
11.55	1.97	0.55	0.16	14.15	5.32	3.17	0.07
11.60	2.04	0.58	0.20	14.20	5.33	3.18	0.07
11.65	2.11	0.63	0.22	14.25	5.34	3.19	0.07
11.70	2.17	0.67	0.23	14.30	5.35	3.20	0.07
11.75	2.27	0.73	0.28	14.35	5.37	3.22	0.06
11.80	2.36	0.79	0.32	14.40	5.38	3.23	0.06
11.85	2.49	0.88	0.39	14.45	5.39	3.24	0.06
11.90	2.62	0.98	0.46	14.50	5.40	3.25	0.06
11.95	2.85	1.14	0.63	14.55	5.41	3.26	0.06
12.00	3.07	1.31	0.80	14.60	5.43	3.27	0.06
12.05	3.45	1.60	1.13	14.65	5.44	3.28	0.06
12.10	3.83	1.90	**1.44**	14.70	5.45	3.29	0.06
12.15	3.96	2.01	**1.22**	14.75	5.46	3.30	0.05
12.20	4.09	2.11	0.88	14.80	5.47	3.31	0.05
12.25	4.18	2.19	0.67	14.85	5.48	3.31	0.05
12.30	4.28	2.27	0.54	14.90	5.49	3.32	0.05
12.35	4.34	2.33	0.44	14.95	5.50	3.33	0.05
12.40	4.41	2.39	0.37	15.00	5.51	3.34	0.05
12.45	4.48	2.44	0.34	15.05	5.52	3.35	0.05
12.50	4.54	2.50	0.32	15.10	5.53	3.36	0.05
12.55	4.59	2.54	0.28	15.15	5.54	3.36	0.05
12.60	4.63	2.57	0.24	15.20	5.54	3.37	0.05
12.65	4.67	2.61	0.21	15.25	5.55	3.38	0.04
12.70	4.71	2.64	0.20	15.30	5.56	3.39	0.04
12.75	4.74	2.67	0.19	15.35	5.57	3.40	0.04
12.80	4.78	2.70	0.18	15.40	5.58	3.40	0.04
12.85	4.81	2.73	0.17	15.45	5.59	3.41	0.04
12.90	4.84	2.76	0.16	15.50	5.60	3.42	0.04
12.95	4.87	2.78	0.16	15.55	5.60	3.43	0.04

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.61	3.43	0.04	18.20	5.96	3.74	0.03
15.65	5.62	3.44	0.04	18.25	5.96	3.75	0.03
15.70	5.63	3.45	0.04	18.30	5.97	3.75	0.03
15.75	5.64	3.46	0.04	18.35	5.97	3.76	0.03
15.80	5.65	3.46	0.04	18.40	5.98	3.76	0.03
15.85	5.65	3.47	0.04	18.45	5.99	3.77	0.03
15.90	5.66	3.48	0.04	18.50	5.99	3.77	0.03
15.95	5.67	3.48	0.04	18.55	6.00	3.78	0.03
16.00	5.68	3.49	0.04	18.60	6.00	3.78	0.03
16.05	5.68	3.50	0.04	18.65	6.01	3.79	0.03
16.10	5.69	3.51	0.04	18.70	6.01	3.79	0.03
16.15	5.70	3.51	0.04	18.75	6.02	3.79	0.03
16.20	5.71	3.52	0.04	18.80	6.02	3.80	0.03
16.25	5.72	3.53	0.04	18.85	6.03	3.80	0.03
16.30	5.72	3.53	0.04	18.90	6.03	3.81	0.03
16.35	5.73	3.54	0.04	18.95	6.03	3.81	0.03
16.40	5.74	3.55	0.04	19.00	6.04	3.82	0.03
16.45	5.75	3.55	0.04	19.05	6.04	3.82	0.02
16.50	5.75	3.56	0.04	19.10	6.05	3.83	0.02
16.55	5.76	3.56	0.04	19.15	6.05	3.83	0.02
16.60	5.77	3.57	0.04	19.20	6.06	3.83	0.02
16.65	5.77	3.58	0.04	19.25	6.06	3.84	0.02
16.70	5.78	3.58	0.04	19.30	6.07	3.84	0.02
16.75	5.79	3.59	0.04	19.35	6.07	3.85	0.02
16.80	5.79	3.60	0.03	19.40	6.08	3.85	0.02
16.85	5.80	3.60	0.03	19.45	6.08	3.86	0.02
16.90	5.81	3.61	0.03	19.50	6.09	3.86	0.02
16.95	5.81	3.61	0.03	19.55	6.09	3.86	0.02
17.00	5.82	3.62	0.03	19.60	6.10	3.87	0.02
17.05	5.83	3.63	0.03	19.65	6.10	3.87	0.02
17.10	5.83	3.63	0.03	19.70	6.11	3.88	0.02
17.15	5.84	3.64	0.03	19.75	6.11	3.88	0.02
17.20	5.85	3.64	0.03	19.80	6.12	3.89	0.02
17.25	5.85	3.65	0.03	19.85	6.12	3.89	0.02
17.30	5.86	3.65	0.03	19.90	6.13	3.89	0.02
17.35	5.87	3.66	0.03	19.95	6.13	3.90	0.02
17.40	5.87	3.67	0.03	20.00	6.13	3.90	0.02
17.45	5.88	3.67	0.03	20.05	6.14	3.91	0.02
17.50	5.88	3.68	0.03	20.10	6.14	3.91	0.02
17.55	5.89	3.68	0.03	20.15	6.15	3.92	0.02
17.60	5.89	3.69	0.03	20.20	6.15	3.92	0.02
17.65	5.90	3.69	0.03	20.25	6.16	3.92	0.02
17.70	5.91	3.70	0.03	20.30	6.16	3.93	0.02
17.75	5.91	3.70	0.03	20.35	6.17	3.93	0.02
17.80	5.92	3.71	0.03	20.40	6.17	3.94	0.02
17.85	5.92	3.71	0.03	20.45	6.17	3.94	0.02
17.90	5.93	3.72	0.03	20.50	6.18	3.94	0.02
17.95	5.93	3.72	0.03	20.55	6.18	3.95	0.02
18.00	5.94	3.73	0.03	20.60	6.19	3.95	0.02
18.05	5.94	3.73	0.03	20.65	6.19	3.96	0.02
18.10	5.95	3.74	0.03	20.70	6.20	3.96	0.02
18.15	5.95	3.74	0.03	20.75	6.20	3.96	0.02

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	6.21	3.97	0.02	23.40	6.41	4.15	0.02
20.85	6.21	3.97	0.02	23.45	6.41	4.15	0.02
20.90	6.21	3.97	0.02	23.50	6.41	4.16	0.02
20.95	6.22	3.98	0.02	23.55	6.42	4.16	0.02
21.00	6.22	3.98	0.02	23.60	6.42	4.16	0.02
21.05	6.23	3.99	0.02	23.65	6.42	4.17	0.02
21.10	6.23	3.99	0.02	23.70	6.43	4.17	0.02
21.15	6.24	3.99	0.02	23.75	6.43	4.17	0.02
21.20	6.24	4.00	0.02	23.80	6.44	4.18	0.02
21.25	6.24	4.00	0.02	23.85	6.44	4.18	0.02
21.30	6.25	4.01	0.02	23.90	6.44	4.18	0.02
21.35	6.25	4.01	0.02	23.95	6.45	4.19	0.02
21.40	6.26	4.01	0.02	24.00	**6.45**	**4.19**	0.02
21.45	6.26	4.02	0.02				
21.50	6.26	4.02	0.02				
21.55	6.27	4.02	0.02				
21.60	6.27	4.03	0.02				
21.65	6.28	4.03	0.02				
21.70	6.28	4.04	0.02				
21.75	6.28	4.04	0.02				
21.80	6.29	4.04	0.02				
21.85	6.29	4.05	0.02				
21.90	6.30	4.05	0.02				
21.95	6.30	4.05	0.02				
22.00	6.30	4.06	0.02				
22.05	6.31	4.06	0.02				
22.10	6.31	4.06	0.02				
22.15	6.32	4.07	0.02				
22.20	6.32	4.07	0.02				
22.25	6.32	4.07	0.02				
22.30	6.33	4.08	0.02				
22.35	6.33	4.08	0.02				
22.40	6.34	4.08	0.02				
22.45	6.34	4.09	0.02				
22.50	6.34	4.09	0.02				
22.55	6.35	4.10	0.02				
22.60	6.35	4.10	0.02				
22.65	6.35	4.10	0.02				
22.70	6.36	4.11	0.02				
22.75	6.36	4.11	0.02				
22.80	6.36	4.11	0.02				
22.85	6.37	4.12	0.02				
22.90	6.37	4.12	0.02				
22.95	6.38	4.12	0.02				
23.00	6.38	4.13	0.02				
23.05	6.38	4.13	0.02				
23.10	6.39	4.13	0.02				
23.15	6.39	4.14	0.02				
23.20	6.39	4.14	0.02				
23.25	6.40	4.14	0.02				
23.30	6.40	4.14	0.02				
23.35	6.40	4.15	0.02				

Summary for Subcatchment EDA1B IMP: EDA1B IMP

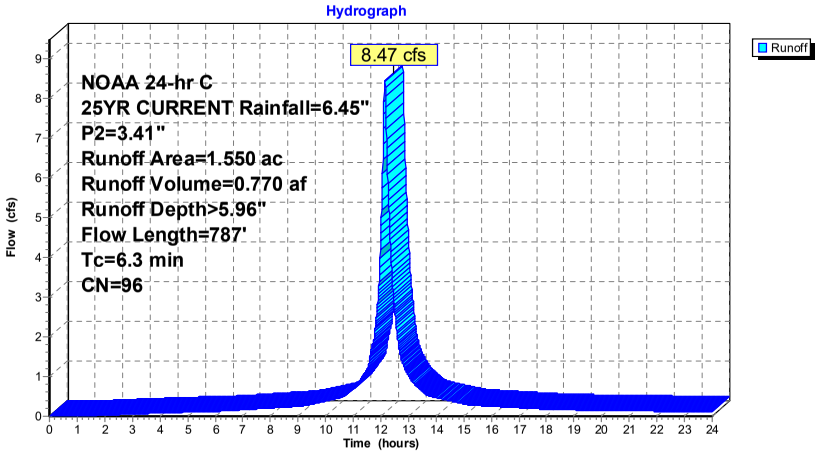
Runoff = 8.47 cfs @ 12.14 hrs, Volume= 0.770 af, Depth> 5.96"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR CURRENT Rainfall=6.45", P2=3.41"

	Area (ac)	CN	Description
	0.940	96	Gravel surface, HSG A
	0.310	96	Gravel surface, HSG D
*	0.190	98	Impervious vehicular
*	0.110	98	Impervious non vehicular
	1.550	96	Weighted Average
	1.250		80.65% Pervious Area
	0.300		19.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	100	0.0100	1.08		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
1.0	93	0.0100	1.50		**Shallow Concentrated Flow, Paved** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.9	93	0.0011	1.71	3.02	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
6.3	787	Total			

Subcatchment EDA1B IMP: EDA1B IMP



Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.02	0.04
0.05	0.00	0.00	0.00	2.65	0.20	0.02	0.05
0.10	0.01	0.00	0.00	2.70	0.20	0.03	0.05
0.15	0.01	0.00	0.00	2.75	0.21	0.03	0.05
0.20	0.01	0.00	0.00	2.80	0.21	0.03	0.05
0.25	0.02	0.00	0.00	2.85	0.21	0.03	0.05
0.30	0.02	0.00	0.00	2.90	0.22	0.03	0.05
0.35	0.03	0.00	0.00	2.95	0.22	0.04	0.05
0.40	0.03	0.00	0.00	3.00	0.23	0.04	0.06
0.45	0.03	0.00	0.00	3.05	0.23	0.04	0.06
0.50	0.04	0.00	0.00	3.10	0.24	0.04	0.06
0.55	0.04	0.00	0.00	3.15	0.24	0.04	0.06
0.60	0.04	0.00	0.00	3.20	0.24	0.05	0.06
0.65	0.05	0.00	0.00	3.25	0.25	0.05	0.06
0.70	0.05	0.00	0.00	3.30	0.25	0.05	0.06
0.75	0.05	0.00	0.00	3.35	0.26	0.05	0.06
0.80	0.06	0.00	0.00	3.40	0.26	0.05	0.07
0.85	0.06	0.00	0.00	3.45	0.27	0.06	0.07
0.90	0.06	0.00	0.00	3.50	0.27	0.06	0.07
0.95	0.07	0.00	0.00	3.55	0.28	0.06	0.07
1.00	0.07	0.00	0.00	3.60	0.28	0.06	0.07
1.05	0.07	0.00	0.00	3.65	0.28	0.07	0.07
1.10	0.08	0.00	0.00	3.70	0.29	0.07	0.07
1.15	0.08	0.00	0.00	3.75	0.29	0.07	0.07
1.20	0.09	0.00	0.00	3.80	0.30	0.07	0.08
1.25	0.09	0.00	0.00	3.85	0.30	0.08	0.08
1.30	0.09	0.00	0.00	3.90	0.31	0.08	0.08
1.35	0.10	0.00	0.00	3.95	0.31	0.08	0.08
1.40	0.10	0.00	0.00	4.00	0.32	0.08	0.08
1.45	0.10	0.00	0.00	4.05	0.32	0.09	0.08
1.50	0.11	0.00	0.01	4.10	0.32	0.09	0.08
1.55	0.11	0.00	0.01	4.15	0.33	0.09	0.08
1.60	0.11	0.00	0.01	4.20	0.33	0.09	0.08
1.65	0.12	0.00	0.01	4.25	0.34	0.10	0.09
1.70	0.12	0.00	0.01	4.30	0.34	0.10	0.09
1.75	0.13	0.00	0.02	4.35	0.35	0.10	0.09
1.80	0.13	0.00	0.02	4.40	0.35	0.11	0.09
1.85	0.13	0.01	0.02	4.45	0.36	0.11	0.09
1.90	0.14	0.01	0.02	4.50	0.36	0.11	0.09
1.95	0.14	0.01	0.02	4.55	0.37	0.11	0.09
2.00	0.15	0.01	0.02	4.60	0.37	0.12	0.09
2.05	0.15	0.01	0.03	4.65	0.38	0.12	0.09
2.10	0.15	0.01	0.03	4.70	0.38	0.12	0.10
2.15	0.16	0.01	0.03	4.75	0.39	0.13	0.10
2.20	0.16	0.01	0.03	4.80	0.39	0.13	0.10
2.25	0.17	0.01	0.03	4.85	0.40	0.13	0.10
2.30	0.17	0.01	0.03	4.90	0.40	0.14	0.10
2.35	0.17	0.02	0.04	4.95	0.41	0.14	0.10
2.40	0.18	0.02	0.04	5.00	0.41	0.14	0.10
2.45	0.18	0.02	0.04	5.05	0.42	0.15	0.10
2.50	0.19	0.02	0.04	5.10	0.42	0.15	0.10
2.55	0.19	0.02	0.04	5.15	0.42	0.15	0.10

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.43	0.16	0.11	7.80	0.74	0.40	0.19
5.25	0.43	0.16	0.11	7.85	0.75	0.41	0.20
5.30	0.44	0.16	0.11	7.90	0.76	0.42	0.20
5.35	0.44	0.17	0.11	7.95	0.77	0.42	0.20
5.40	0.45	0.17	0.11	8.00	0.77	0.43	0.20
5.45	0.45	0.18	0.11	8.05	0.78	0.44	0.21
5.50	0.46	0.18	0.11	8.10	0.79	0.44	0.21
5.55	0.46	0.18	0.11	8.15	0.80	0.45	0.21
5.60	0.47	0.19	0.11	8.20	0.80	0.46	0.21
5.65	0.48	0.19	0.11	8.25	0.81	0.46	0.21
5.70	0.48	0.19	0.11	8.30	0.82	0.47	0.22
5.75	0.49	0.20	0.12	8.35	0.83	0.48	0.22
5.80	0.49	0.20	0.12	8.40	0.84	0.49	0.22
5.85	0.50	0.21	0.12	8.45	0.85	0.49	0.22
5.90	0.50	0.21	0.12	8.50	0.85	0.50	0.22
5.95	0.51	0.21	0.12	8.55	0.86	0.51	0.23
6.00	0.51	0.22	0.12	8.60	0.87	0.52	0.23
6.05	0.52	0.22	0.12	8.65	0.88	0.52	0.23
6.10	0.52	0.22	0.12	8.70	0.89	0.53	0.23
6.15	0.53	0.23	0.12	8.75	0.90	0.54	0.24
6.20	0.53	0.23	0.13	8.80	0.91	0.55	0.24
6.25	0.54	0.24	0.13	8.85	0.91	0.55	0.24
6.30	0.54	0.24	0.13	8.90	0.92	0.56	0.24
6.35	0.55	0.25	0.13	8.95	0.93	0.57	0.24
6.40	0.56	0.25	0.13	9.00	0.94	0.58	0.25
6.45	0.56	0.26	0.14	9.05	0.95	0.59	0.25
6.50	0.57	0.26	0.14	9.10	0.96	0.60	0.26
6.55	0.57	0.26	0.14	9.15	0.97	0.60	0.26
6.60	0.58	0.27	0.14	9.20	0.98	0.61	0.27
6.65	0.58	0.27	0.14	9.25	0.99	0.62	0.27
6.70	0.59	0.28	0.15	9.30	1.00	0.63	0.28
6.75	0.60	0.28	0.15	9.35	1.01	0.64	0.29
6.80	0.60	0.29	0.15	9.40	1.02	0.65	0.29
6.85	0.61	0.29	0.15	9.45	1.04	0.66	0.30
6.90	0.62	0.30	0.15	9.50	1.05	0.67	0.31
6.95	0.62	0.30	0.16	9.55	1.06	0.68	0.32
7.00	0.63	0.31	0.16	9.60	1.07	0.69	0.32
7.05	0.64	0.31	0.16	9.65	1.08	0.71	0.33
7.10	0.64	0.32	0.16	9.70	1.10	0.72	0.34
7.15	0.65	0.33	0.17	9.75	1.11	0.73	0.35
7.20	0.66	0.33	0.17	9.80	1.12	0.74	0.35
7.25	0.66	0.34	0.17	9.85	1.13	0.75	0.36
7.30	0.67	0.34	0.17	9.90	1.15	0.77	0.37
7.35	0.68	0.35	0.17	9.95	1.16	0.78	0.38
7.40	0.68	0.35	0.18	10.00	1.18	0.79	0.38
7.45	0.69	0.36	0.18	10.05	1.19	0.80	0.39
7.50	0.70	0.37	0.18	10.10	1.20	0.82	0.40
7.55	0.70	0.37	0.18	10.15	1.22	0.83	0.41
7.60	0.71	0.38	0.19	10.20	1.23	0.85	0.41
7.65	0.72	0.38	0.19	10.25	1.25	0.86	0.42
7.70	0.73	0.39	0.19	10.30	1.27	0.87	0.43
7.75	0.73	0.40	0.19	10.35	1.28	0.89	0.44

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.30	0.90	0.44	13.00	4.90	4.44	1.03
10.45	1.31	0.92	0.45	13.05	4.93	4.46	0.97
10.50	1.33	0.93	0.46	13.10	4.95	4.49	0.91
10.55	1.35	0.95	0.47	13.15	4.98	4.51	0.87
10.60	1.37	0.97	0.49	13.20	5.00	4.53	0.82
10.65	1.39	0.99	0.51	13.25	5.02	4.55	0.79
10.70	1.41	1.01	0.53	13.30	5.04	4.58	0.75
10.75	1.43	1.03	0.56	13.35	5.06	4.60	0.72
10.80	1.45	1.05	0.59	13.40	5.08	4.62	0.69
10.85	1.47	1.07	0.61	13.45	5.10	4.63	0.66
10.90	1.50	1.09	0.64	13.50	5.12	4.65	0.63
10.95	1.52	1.12	0.67	13.55	5.14	4.67	0.60
11.00	1.55	1.14	0.70	13.60	5.15	4.68	0.57
11.05	1.58	1.17	0.73	13.65	5.17	4.70	0.55
11.10	1.61	1.20	0.77	13.70	5.18	4.72	0.53
11.15	1.64	1.23	0.81	13.75	5.20	4.73	0.51
11.20	1.67	1.26	0.86	13.80	5.22	4.75	0.50
11.25	1.71	1.29	0.91	13.85	5.23	4.76	0.49
11.30	1.74	1.33	0.96	13.90	5.25	4.78	0.48
11.35	1.78	1.36	1.01	13.95	5.26	4.79	0.47
11.40	1.82	1.40	1.07	14.00	5.27	4.80	0.46
11.45	1.86	1.44	1.12	14.05	5.29	4.82	0.46
11.50	1.91	1.48	1.17	14.10	5.30	4.83	0.45
11.55	1.97	1.55	1.26	14.15	5.32	4.85	0.44
11.60	2.04	1.61	1.48	14.20	5.33	4.86	0.43
11.65	2.11	1.68	1.66	14.25	5.34	4.87	0.43
11.70	2.17	1.74	1.80	14.30	5.35	4.88	0.42
11.75	2.27	1.83	1.96	14.35	5.37	4.90	0.41
11.80	2.36	1.93	2.24	14.40	5.38	4.91	0.40
11.85	2.49	2.05	2.54	14.45	5.39	4.92	0.40
11.90	2.62	2.18	3.00	14.50	5.40	4.93	0.39
11.95	2.85	2.40	3.56	14.55	5.41	4.94	0.38
12.00	3.07	2.63	4.62	14.60	5.43	4.96	0.37
12.05	3.45	3.00	5.77	14.65	5.44	4.97	0.37
12.10	3.83	3.37	**7.61**	14.70	5.45	4.98	0.36
12.15	3.96	3.50	**8.43**	14.75	5.46	4.99	0.35
12.20	4.09	3.63	7.24	14.80	5.47	5.00	0.34
12.25	4.18	3.72	6.10	14.85	5.48	5.01	0.34
12.30	4.28	3.81	5.08	14.90	5.49	5.02	0.33
12.35	4.34	3.88	4.30	14.95	5.50	5.03	0.32
12.40	4.41	3.95	3.59	15.00	5.51	5.04	0.31
12.45	4.48	4.01	3.07	15.05	5.52	5.05	0.31
12.50	4.54	4.08	2.68	15.10	5.53	5.06	0.30
12.55	4.59	4.12	2.37	15.15	5.54	5.06	0.29
12.60	4.63	4.16	2.01	15.20	5.54	5.07	0.29
12.65	4.67	4.20	1.75	15.25	5.55	5.08	0.28
12.70	4.71	4.24	1.56	15.30	5.56	5.09	0.28
12.75	4.74	4.28	1.42	15.35	5.57	5.10	0.28
12.80	4.78	4.31	1.31	15.40	5.58	5.11	0.27
12.85	4.81	4.35	1.23	15.45	5.59	5.12	0.27
12.90	4.84	4.38	1.15	15.50	5.60	5.13	0.27
12.95	4.87	4.41	1.09	15.55	5.60	5.13	0.27

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.61	5.14	0.27	18.20	5.96	5.49	0.16
15.65	5.62	5.15	0.26	18.25	5.96	5.49	0.16
15.70	5.63	5.16	0.26	18.30	5.97	5.50	0.16
15.75	5.64	5.17	0.26	18.35	5.97	5.50	0.16
15.80	5.65	5.17	0.26	18.40	5.98	5.51	0.16
15.85	5.65	5.18	0.26	18.45	5.99	5.51	0.16
15.90	5.66	5.19	0.25	18.50	5.99	5.52	0.16
15.95	5.67	5.20	0.25	18.55	6.00	5.52	0.16
16.00	5.68	5.21	0.25	18.60	6.00	5.53	0.16
16.05	5.68	5.21	0.25	18.65	6.01	5.53	0.16
16.10	5.69	5.22	0.25	18.70	6.01	5.54	0.16
16.15	5.70	5.23	0.24	18.75	6.02	5.54	0.16
16.20	5.71	5.24	0.24	18.80	6.02	5.55	0.16
16.25	5.72	5.24	0.24	18.85	6.03	5.55	0.16
16.30	5.72	5.25	0.24	18.90	6.03	5.56	0.15
16.35	5.73	5.26	0.24	18.95	6.03	5.56	0.15
16.40	5.74	5.27	0.23	19.00	6.04	5.57	0.15
16.45	5.75	5.27	0.23	19.05	6.04	5.57	0.15
16.50	5.75	5.28	0.23	19.10	6.05	5.58	0.15
16.55	5.76	5.29	0.23	19.15	6.05	5.58	0.15
16.60	5.77	5.29	0.23	19.20	6.06	5.59	0.15
16.65	5.77	5.30	0.22	19.25	6.06	5.59	0.15
16.70	5.78	5.31	0.22	19.30	6.07	5.60	0.15
16.75	5.79	5.32	0.22	19.35	6.07	5.60	0.15
16.80	5.79	5.32	0.22	19.40	6.08	5.61	0.15
16.85	5.80	5.33	0.22	19.45	6.08	5.61	0.15
16.90	5.81	5.34	0.21	19.50	6.09	5.61	0.15
16.95	5.81	5.34	0.21	19.55	6.09	5.62	0.15
17.00	5.82	5.35	0.21	19.60	6.10	5.62	0.15
17.05	5.83	5.36	0.21	19.65	6.10	5.63	0.15
17.10	5.83	5.36	0.21	19.70	6.11	5.63	0.15
17.15	5.84	5.37	0.20	19.75	6.11	5.64	0.15
17.20	5.85	5.37	0.20	19.80	6.12	5.64	0.15
17.25	5.85	5.38	0.20	19.85	6.12	5.65	0.15
17.30	5.86	5.39	0.20	19.90	6.13	5.65	0.15
17.35	5.87	5.39	0.20	19.95	6.13	5.66	0.14
17.40	5.87	5.40	0.19	20.00	6.13	5.66	0.14
17.45	5.88	5.41	0.19	20.05	6.14	5.67	0.14
17.50	5.88	5.41	0.19	20.10	6.14	5.67	0.14
17.55	5.89	5.42	0.19	20.15	6.15	5.67	0.14
17.60	5.89	5.42	0.19	20.20	6.15	5.68	0.14
17.65	5.90	5.43	0.18	20.25	6.16	5.68	0.14
17.70	5.91	5.43	0.18	20.30	6.16	5.69	0.14
17.75	5.91	5.44	0.18	20.35	6.17	5.69	0.14
17.80	5.92	5.45	0.18	20.40	6.17	5.70	0.14
17.85	5.92	5.45	0.18	20.45	6.17	5.70	0.14
17.90	5.93	5.46	0.17	20.50	6.18	5.71	0.14
17.95	5.93	5.46	0.17	20.55	6.18	5.71	0.14
18.00	5.94	5.47	0.17	20.60	6.19	5.71	0.14
18.05	5.94	5.47	0.17	20.65	6.19	5.72	0.14
18.10	5.95	5.48	0.17	20.70	6.20	5.72	0.14
18.15	5.95	5.48	0.16	20.75	6.20	5.73	0.14

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	6.21	5.73	0.14	23.40	6.41	5.93	0.11
20.85	6.21	5.74	0.14	23.45	6.41	5.94	0.11
20.90	6.21	5.74	0.13	23.50	6.41	5.94	0.11
20.95	6.22	5.74	0.13	23.55	6.42	5.94	0.11
21.00	6.22	5.75	0.13	23.60	6.42	5.95	0.11
21.05	6.23	5.75	0.13	23.65	6.42	5.95	0.11
21.10	6.23	5.76	0.13	23.70	6.43	5.95	0.11
21.15	6.24	5.76	0.13	23.75	6.43	5.96	0.11
21.20	6.24	5.77	0.13	23.80	6.44	5.96	0.11
21.25	6.24	5.77	0.13	23.85	6.44	5.96	0.11
21.30	6.25	5.77	0.13	23.90	6.44	5.97	0.10
21.35	6.25	5.78	0.13	23.95	6.45	5.97	0.11
21.40	6.26	5.78	0.13	24.00	**6.45**	**5.98**	0.11
21.45	6.26	5.79	0.13				
21.50	6.26	5.79	0.13				
21.55	6.27	5.79	0.13				
21.60	6.27	5.80	0.13				
21.65	6.28	5.80	0.13				
21.70	6.28	5.81	0.13				
21.75	6.28	5.81	0.13				
21.80	6.29	5.81	0.13				
21.85	6.29	5.82	0.13				
21.90	6.30	5.82	0.12				
21.95	6.30	5.83	0.12				
22.00	6.30	5.83	0.12				
22.05	6.31	5.83	0.12				
22.10	6.31	5.84	0.12				
22.15	6.32	5.84	0.12				
22.20	6.32	5.85	0.12				
22.25	6.32	5.85	0.12				
22.30	6.33	5.85	0.12				
22.35	6.33	5.86	0.12				
22.40	6.34	5.86	0.12				
22.45	6.34	5.86	0.12				
22.50	6.34	5.87	0.12				
22.55	6.35	5.87	0.12				
22.60	6.35	5.88	0.12				
22.65	6.35	5.88	0.12				
22.70	6.36	5.88	0.12				
22.75	6.36	5.89	0.12				
22.80	6.36	5.89	0.12				
22.85	6.37	5.89	0.12				
22.90	6.37	5.90	0.11				
22.95	6.38	5.90	0.11				
23.00	6.38	5.91	0.11				
23.05	6.38	5.91	0.11				
23.10	6.39	5.91	0.11				
23.15	6.39	5.92	0.11				
23.20	6.39	5.92	0.11				
23.25	6.40	5.92	0.11				
23.30	6.40	5.93	0.11				
23.35	6.40	5.93	0.11				

Summary for Subcatchment EDA2 IMP: EDA2 IMP

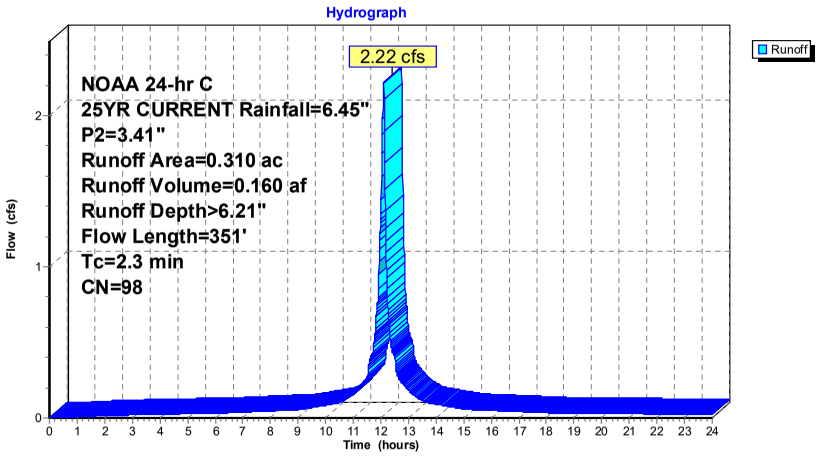
Runoff = 2.22 cfs @ 12.11 hrs, Volume= 0.160 af, Depth> 6.21"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR CURRENT Rainfall=6.45", P2=3.41"

	Area (ac)	CN	Description
*	0.310	98	Impervious vehicular
	0.310		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0180	1.36		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
1.1	251	0.0360	3.85		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
2.3	351	Total			

Subcatchment EDA2 IMP: EDA2 IMP



Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.07	0.02
0.05	0.00	0.00	0.00	2.65	0.20	0.07	0.02
0.10	0.01	0.00	0.00	2.70	0.20	0.07	0.02
0.15	0.01	0.00	0.00	2.75	0.21	0.07	0.02
0.20	0.01	0.00	0.00	2.80	0.21	0.08	0.02
0.25	0.02	0.00	0.00	2.85	0.21	0.08	0.02
0.30	0.02	0.00	0.00	2.90	0.22	0.08	0.02
0.35	0.03	0.00	0.00	2.95	0.22	0.09	0.02
0.40	0.03	0.00	0.00	3.00	0.23	0.09	0.02
0.45	0.03	0.00	0.00	3.05	0.23	0.09	0.02
0.50	0.04	0.00	0.00	3.10	0.24	0.10	0.02
0.55	0.04	0.00	0.00	3.15	0.24	0.10	0.02
0.60	0.04	0.00	0.00	3.20	0.24	0.10	0.02
0.65	0.05	0.00	0.00	3.25	0.25	0.11	0.02
0.70	0.05	0.00	0.00	3.30	0.25	0.11	0.02
0.75	0.05	0.00	0.00	3.35	0.26	0.11	0.02
0.80	0.06	0.00	0.00	3.40	0.26	0.12	0.02
0.85	0.06	0.00	0.00	3.45	0.27	0.12	0.02
0.90	0.06	0.00	0.00	3.50	0.27	0.12	0.02
0.95	0.07	0.00	0.00	3.55	0.28	0.13	0.02
1.00	0.07	0.00	0.00	3.60	0.28	0.13	0.02
1.05	0.07	0.00	0.01	3.65	0.28	0.13	0.02
1.10	0.08	0.01	0.01	3.70	0.29	0.14	0.02
1.15	0.08	0.01	0.01	3.75	0.29	0.14	0.02
1.20	0.09	0.01	0.01	3.80	0.30	0.14	0.02
1.25	0.09	0.01	0.01	3.85	0.30	0.15	0.02
1.30	0.09	0.01	0.01	3.90	0.31	0.15	0.02
1.35	0.10	0.01	0.01	3.95	0.31	0.15	0.02
1.40	0.10	0.01	0.01	4.00	0.32	0.16	0.02
1.45	0.10	0.01	0.01	4.05	0.32	0.16	0.02
1.50	0.11	0.02	0.01	4.10	0.32	0.17	0.02
1.55	0.11	0.02	0.01	4.15	0.33	0.17	0.02
1.60	0.11	0.02	0.01	4.20	0.33	0.17	0.02
1.65	0.12	0.02	0.01	4.25	0.34	0.18	0.02
1.70	0.12	0.02	0.01	4.30	0.34	0.18	0.02
1.75	0.13	0.03	0.01	4.35	0.35	0.18	0.02
1.80	0.13	0.03	0.01	4.40	0.35	0.19	0.02
1.85	0.13	0.03	0.01	4.45	0.36	0.19	0.02
1.90	0.14	0.03	0.01	4.50	0.36	0.20	0.02
1.95	0.14	0.03	0.01	4.55	0.37	0.20	0.03
2.00	0.15	0.04	0.01	4.60	0.37	0.20	0.03
2.05	0.15	0.04	0.01	4.65	0.38	0.21	0.03
2.10	0.15	0.04	0.01	4.70	0.38	0.21	0.03
2.15	0.16	0.04	0.01	4.75	0.39	0.22	0.03
2.20	0.16	0.04	0.01	4.80	0.39	0.22	0.03
2.25	0.17	0.05	0.02	4.85	0.40	0.23	0.03
2.30	0.17	0.05	0.02	4.90	0.40	0.23	0.03
2.35	0.17	0.05	0.02	4.95	0.41	0.23	0.03
2.40	0.18	0.05	0.02	5.00	0.41	0.24	0.03
2.45	0.18	0.06	0.02	5.05	0.42	0.24	0.03
2.50	0.19	0.06	0.02	5.10	0.42	0.25	0.03
2.55	0.19	0.06	0.02	5.15	0.42	0.25	0.03

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.43	0.26	0.03	7.80	0.74	0.54	0.04
5.25	0.43	0.26	0.03	7.85	0.75	0.55	0.04
5.30	0.44	0.26	0.03	7.90	0.76	0.56	0.05
5.35	0.44	0.27	0.03	7.95	0.77	0.56	0.05
5.40	0.45	0.27	0.03	8.00	0.77	0.57	0.05
5.45	0.45	0.28	0.03	8.05	0.78	0.58	0.05
5.50	0.46	0.28	0.03	8.10	0.79	0.59	0.05
5.55	0.46	0.29	0.03	8.15	0.80	0.60	0.05
5.60	0.47	0.29	0.03	8.20	0.80	0.60	0.05
5.65	0.48	0.30	0.03	8.25	0.81	0.61	0.05
5.70	0.48	0.30	0.03	8.30	0.82	0.62	0.05
5.75	0.49	0.30	0.03	8.35	0.83	0.63	0.05
5.80	0.49	0.31	0.03	8.40	0.84	0.63	0.05
5.85	0.50	0.31	0.03	8.45	0.85	0.64	0.05
5.90	0.50	0.32	0.03	8.50	0.85	0.65	0.05
5.95	0.51	0.32	0.03	8.55	0.86	0.66	0.05
6.00	0.51	0.33	0.03	8.60	0.87	0.67	0.05
6.05	0.52	0.33	0.03	8.65	0.88	0.67	0.05
6.10	0.52	0.34	0.03	8.70	0.89	0.68	0.05
6.15	0.53	0.34	0.03	8.75	0.90	0.69	0.05
6.20	0.53	0.35	0.03	8.80	0.91	0.70	0.05
6.25	0.54	0.35	0.03	8.85	0.91	0.71	0.05
6.30	0.54	0.36	0.03	8.90	0.92	0.72	0.05
6.35	0.55	0.36	0.03	8.95	0.93	0.73	0.05
6.40	0.56	0.37	0.03	9.00	0.94	0.73	0.05
6.45	0.56	0.37	0.03	9.05	0.95	0.74	0.06
6.50	0.57	0.38	0.03	9.10	0.96	0.75	0.06
6.55	0.57	0.38	0.03	9.15	0.97	0.76	0.06
6.60	0.58	0.39	0.03	9.20	0.98	0.77	0.06
6.65	0.58	0.40	0.03	9.25	0.99	0.78	0.06
6.70	0.59	0.40	0.04	9.30	1.00	0.79	0.06
6.75	0.60	0.41	0.04	9.35	1.01	0.80	0.07
6.80	0.60	0.41	0.04	9.40	1.02	0.81	0.07
6.85	0.61	0.42	0.04	9.45	1.04	0.83	0.07
6.90	0.62	0.42	0.04	9.50	1.05	0.84	0.07
6.95	0.62	0.43	0.04	9.55	1.06	0.85	0.07
7.00	0.63	0.44	0.04	9.60	1.07	0.86	0.07
7.05	0.64	0.44	0.04	9.65	1.08	0.87	0.07
7.10	0.64	0.45	0.04	9.70	1.10	0.88	0.08
7.15	0.65	0.46	0.04	9.75	1.11	0.90	0.08
7.20	0.66	0.46	0.04	9.80	1.12	0.91	0.08
7.25	0.66	0.47	0.04	9.85	1.13	0.92	0.08
7.30	0.67	0.47	0.04	9.90	1.15	0.94	0.08
7.35	0.68	0.48	0.04	9.95	1.16	0.95	0.08
7.40	0.68	0.49	0.04	10.00	1.18	0.96	0.08
7.45	0.69	0.49	0.04	10.05	1.19	0.98	0.09
7.50	0.70	0.50	0.04	10.10	1.20	0.99	0.09
7.55	0.70	0.51	0.04	10.15	1.22	1.00	0.09
7.60	0.71	0.51	0.04	10.20	1.23	1.02	0.09
7.65	0.72	0.52	0.04	10.25	1.25	1.03	0.09
7.70	0.73	0.53	0.04	10.30	1.27	1.05	0.09
7.75	0.73	0.54	0.04	10.35	1.28	1.06	0.10

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.30	1.08	0.10	13.00	4.90	4.67	0.18
10.45	1.31	1.10	0.10	13.05	4.93	4.69	0.17
10.50	1.33	1.11	0.10	13.10	4.95	4.72	0.16
10.55	1.35	1.13	0.11	13.15	4.98	4.74	0.15
10.60	1.37	1.15	0.11	13.20	5.00	4.76	0.15
10.65	1.39	1.17	0.12	13.25	5.02	4.79	0.14
10.70	1.41	1.19	0.12	13.30	5.04	4.81	0.14
10.75	1.43	1.21	0.13	13.35	5.06	4.83	0.13
10.80	1.45	1.23	0.13	13.40	5.08	4.85	0.13
10.85	1.47	1.25	0.14	13.45	5.10	4.87	0.12
10.90	1.50	1.28	0.14	13.50	5.12	4.88	0.12
10.95	1.52	1.30	0.15	13.55	5.14	4.90	0.11
11.00	1.55	1.33	0.16	13.60	5.15	4.92	0.10
11.05	1.58	1.36	0.17	13.65	5.17	4.93	0.10
11.10	1.61	1.38	0.18	13.70	5.18	4.95	0.10
11.15	1.64	1.42	0.19	13.75	5.20	4.96	0.10
11.20	1.67	1.45	0.20	13.80	5.22	4.98	0.10
11.25	1.71	1.48	0.21	13.85	5.23	4.99	0.09
11.30	1.74	1.52	0.22	13.90	5.25	5.01	0.09
11.35	1.78	1.56	0.23	13.95	5.26	5.02	0.09
11.40	1.82	1.60	0.24	14.00	5.27	5.04	0.09
11.45	1.86	1.64	0.25	14.05	5.29	5.05	0.09
11.50	1.91	1.68	0.26	14.10	5.30	5.06	0.09
11.55	1.97	1.75	0.34	14.15	5.32	5.08	0.09
11.60	2.04	1.81	0.38	14.20	5.33	5.09	0.08
11.65	2.11	1.88	0.41	14.25	5.34	5.10	0.08
11.70	2.17	1.95	0.42	14.30	5.35	5.12	0.08
11.75	2.27	2.04	0.51	14.35	5.37	5.13	0.08
11.80	2.36	2.13	0.56	14.40	5.38	5.14	0.08
11.85	2.49	2.26	0.70	14.45	5.39	5.15	0.08
11.90	2.62	2.39	0.78	14.50	5.40	5.17	0.08
11.95	2.85	2.62	1.11	14.55	5.41	5.18	0.07
12.00	3.07	2.84	1.32	14.60	5.43	5.19	0.07
12.05	3.45	3.22	1.88	14.65	5.44	5.20	0.07
12.10	3.83	3.59	**2.20**	14.70	5.45	5.21	0.07
12.15	3.96	3.72	**1.51**	14.75	5.46	5.22	0.07
12.20	4.09	3.85	1.03	14.80	5.47	5.23	0.07
12.25	4.18	3.95	0.75	14.85	5.48	5.24	0.06
12.30	4.28	4.04	0.63	14.90	5.49	5.25	0.06
12.35	4.34	4.11	0.51	14.95	5.50	5.26	0.06
12.40	4.41	4.18	0.45	15.00	5.51	5.27	0.06
12.45	4.48	4.24	0.42	15.05	5.52	5.28	0.06
12.50	4.54	4.31	0.41	15.10	5.53	5.29	0.06
12.55	4.59	4.35	0.33	15.15	5.54	5.30	0.06
12.60	4.63	4.39	0.28	15.20	5.54	5.31	0.06
12.65	4.67	4.43	0.26	15.25	5.55	5.32	0.06
12.70	4.71	4.47	0.25	15.30	5.56	5.32	0.05
12.75	4.74	4.51	0.24	15.35	5.57	5.33	0.05
12.80	4.78	4.54	0.23	15.40	5.58	5.34	0.05
12.85	4.81	4.57	0.21	15.45	5.59	5.35	0.05
12.90	4.84	4.61	0.21	15.50	5.60	5.36	0.05
12.95	4.87	4.64	0.19	15.55	5.60	5.37	0.05

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.61	5.37	0.05	18.20	5.96	5.72	0.03
15.65	5.62	5.38	0.05	18.25	5.96	5.73	0.03
15.70	5.63	5.39	0.05	18.30	5.97	5.73	0.03
15.75	5.64	5.40	0.05	18.35	5.97	5.74	0.03
15.80	5.65	5.41	0.05	18.40	5.98	5.74	0.03
15.85	5.65	5.42	0.05	18.45	5.99	5.75	0.03
15.90	5.66	5.42	0.05	18.50	5.99	5.75	0.03
15.95	5.67	5.43	0.05	18.55	6.00	5.76	0.03
16.00	5.68	5.44	0.05	18.60	6.00	5.76	0.03
16.05	5.68	5.45	0.05	18.65	6.01	5.77	0.03
16.10	5.69	5.45	0.05	18.70	6.01	5.77	0.03
16.15	5.70	5.46	0.05	18.75	6.02	5.78	0.03
16.20	5.71	5.47	0.05	18.80	6.02	5.78	0.03
16.25	5.72	5.48	0.05	18.85	6.03	5.79	0.03
16.30	5.72	5.49	0.05	18.90	6.03	5.79	0.03
16.35	5.73	5.49	0.05	18.95	6.03	5.80	0.03
16.40	5.74	5.50	0.05	19.00	6.04	5.80	0.03
16.45	5.75	5.51	0.05	19.05	6.04	5.81	0.03
16.50	5.75	5.51	0.05	19.10	6.05	5.81	0.03
16.55	5.76	5.52	0.04	19.15	6.05	5.82	0.03
16.60	5.77	5.53	0.04	19.20	6.06	5.82	0.03
16.65	5.77	5.54	0.04	19.25	6.06	5.83	0.03
16.70	5.78	5.54	0.04	19.30	6.07	5.83	0.03
16.75	5.79	5.55	0.04	19.35	6.07	5.84	0.03
16.80	5.79	5.56	0.04	19.40	6.08	5.84	0.03
16.85	5.80	5.56	0.04	19.45	6.08	5.84	0.03
16.90	5.81	5.57	0.04	19.50	6.09	5.85	0.03
16.95	5.81	5.58	0.04	19.55	6.09	5.85	0.03
17.00	5.82	5.58	0.04	19.60	6.10	5.86	0.03
17.05	5.83	5.59	0.04	19.65	6.10	5.86	0.03
17.10	5.83	5.60	0.04	19.70	6.11	5.87	0.03
17.15	5.84	5.60	0.04	19.75	6.11	5.87	0.03
17.20	5.85	5.61	0.04	19.80	6.12	5.88	0.03
17.25	5.85	5.61	0.04	19.85	6.12	5.88	0.03
17.30	5.86	5.62	0.04	19.90	6.13	5.89	0.03
17.35	5.87	5.63	0.04	19.95	6.13	5.89	0.03
17.40	5.87	5.63	0.04	20.00	6.13	5.90	0.03
17.45	5.88	5.64	0.04	20.05	6.14	5.90	0.03
17.50	5.88	5.65	0.04	20.10	6.14	5.91	0.03
17.55	5.89	5.65	0.04	20.15	6.15	5.91	0.03
17.60	5.89	5.66	0.04	20.20	6.15	5.91	0.03
17.65	5.90	5.66	0.04	20.25	6.16	5.92	0.03
17.70	5.91	5.67	0.04	20.30	6.16	5.92	0.03
17.75	5.91	5.67	0.04	20.35	6.17	5.93	0.03
17.80	5.92	5.68	0.03	20.40	6.17	5.93	0.03
17.85	5.92	5.68	0.03	20.45	6.17	5.94	0.03
17.90	5.93	5.69	0.03	20.50	6.18	5.94	0.03
17.95	5.93	5.70	0.03	20.55	6.18	5.95	0.03
18.00	5.94	5.70	0.03	20.60	6.19	5.95	0.03
18.05	5.94	5.71	0.03	20.65	6.19	5.95	0.03
18.10	5.95	5.71	0.03	20.70	6.20	5.96	0.03
18.15	5.95	5.72	0.03	20.75	6.20	5.96	0.03

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	6.21	5.97	0.03	23.40	6.41	6.17	0.02
20.85	6.21	5.97	0.03	23.45	6.41	6.17	0.02
20.90	6.21	5.98	0.03	23.50	6.41	6.18	0.02
20.95	6.22	5.98	0.03	23.55	6.42	6.18	0.02
21.00	6.22	5.98	0.03	23.60	6.42	6.18	0.02
21.05	6.23	5.99	0.03	23.65	6.42	6.19	0.02
21.10	6.23	5.99	0.03	23.70	6.43	6.19	0.02
21.15	6.24	6.00	0.03	23.75	6.43	6.19	0.02
21.20	6.24	6.00	0.03	23.80	6.44	6.20	0.02
21.25	6.24	6.01	0.03	23.85	6.44	6.20	0.02
21.30	6.25	6.01	0.03	23.90	6.44	6.20	0.02
21.35	6.25	6.01	0.03	23.95	6.45	6.21	0.02
21.40	6.26	6.02	0.03	24.00	**6.45**	**6.21**	0.03
21.45	6.26	6.02	0.03				
21.50	6.26	6.03	0.03				
21.55	6.27	6.03	0.03				
21.60	6.27	6.03	0.03				
21.65	6.28	6.04	0.03				
21.70	6.28	6.04	0.03				
21.75	6.28	6.05	0.03				
21.80	6.29	6.05	0.03				
21.85	6.29	6.05	0.02				
21.90	6.30	6.06	0.02				
21.95	6.30	6.06	0.02				
22.00	6.30	6.07	0.02				
22.05	6.31	6.07	0.02				
22.10	6.31	6.07	0.02				
22.15	6.32	6.08	0.02				
22.20	6.32	6.08	0.02				
22.25	6.32	6.09	0.02				
22.30	6.33	6.09	0.02				
22.35	6.33	6.09	0.02				
22.40	6.34	6.10	0.02				
22.45	6.34	6.10	0.02				
22.50	6.34	6.10	0.02				
22.55	6.35	6.11	0.02				
22.60	6.35	6.11	0.02				
22.65	6.35	6.12	0.02				
22.70	6.36	6.12	0.02				
22.75	6.36	6.12	0.02				
22.80	6.36	6.13	0.02				
22.85	6.37	6.13	0.02				
22.90	6.37	6.13	0.02				
22.95	6.38	6.14	0.02				
23.00	6.38	6.14	0.02				
23.05	6.38	6.14	0.02				
23.10	6.39	6.15	0.02				
23.15	6.39	6.15	0.02				
23.20	6.39	6.16	0.02				
23.25	6.40	6.16	0.02				
23.30	6.40	6.16	0.02				
23.35	6.40	6.17	0.02				

Summary for Subcatchment EDA3 IMP: EDA3 IMP

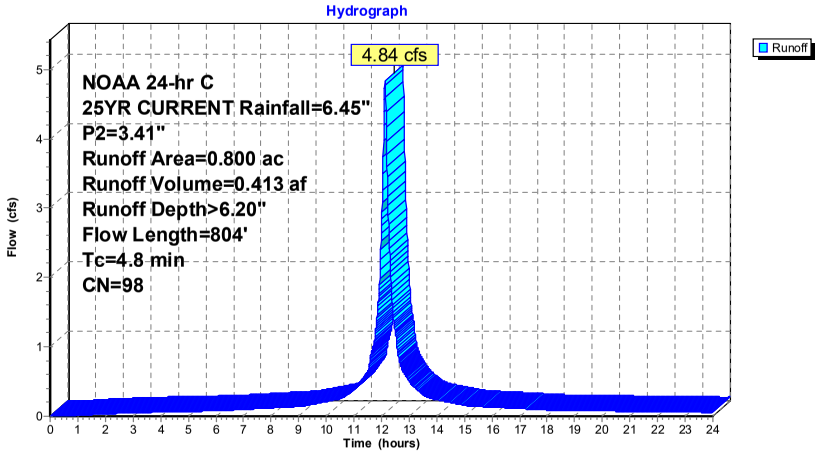
Runoff = 4.84 cfs @ 12.13 hrs, Volume= 0.413 af, Depth> 6.20"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR CURRENT Rainfall=6.45", P2=3.41"

	Area (ac)	CN	Description
*	0.750	98	Impervious vehicular
*	0.050	98	Impervious non vehicular
	0.800	98	Weighted Average
	0.800		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0071	0.94		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.7	172	0.0039	3.90	12.24	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
0.1	27	0.0120	6.84	21.48	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
1.6	439	0.0015	4.45	87.42	**Pipe Channel, RCP_Round 60"** 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.015
4.8	804	Total			

Subcatchment EDA3 IMP: EDA3 IMP



Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.07	0.04
0.05	0.00	0.00	0.00	2.65	0.20	0.07	0.04
0.10	0.01	0.00	0.00	2.70	0.20	0.07	0.04
0.15	0.01	0.00	0.00	2.75	0.21	0.07	0.05
0.20	0.01	0.00	0.00	2.80	0.21	0.08	0.05
0.25	0.02	0.00	0.00	2.85	0.21	0.08	0.05
0.30	0.02	0.00	0.00	2.90	0.22	0.08	0.05
0.35	0.03	0.00	0.00	2.95	0.22	0.09	0.05
0.40	0.03	0.00	0.00	3.00	0.23	0.09	0.05
0.45	0.03	0.00	0.00	3.05	0.23	0.09	0.05
0.50	0.04	0.00	0.00	3.10	0.24	0.10	0.05
0.55	0.04	0.00	0.00	3.15	0.24	0.10	0.05
0.60	0.04	0.00	0.00	3.20	0.24	0.10	0.05
0.65	0.05	0.00	0.00	3.25	0.25	0.11	0.05
0.70	0.05	0.00	0.00	3.30	0.25	0.11	0.05
0.75	0.05	0.00	0.00	3.35	0.26	0.11	0.05
0.80	0.06	0.00	0.00	3.40	0.26	0.12	0.05
0.85	0.06	0.00	0.01	3.45	0.27	0.12	0.05
0.90	0.06	0.00	0.01	3.50	0.27	0.12	0.05
0.95	0.07	0.00	0.01	3.55	0.28	0.13	0.05
1.00	0.07	0.00	0.01	3.60	0.28	0.13	0.06
1.05	0.07	0.00	0.01	3.65	0.28	0.13	0.06
1.10	0.08	0.01	0.01	3.70	0.29	0.14	0.06
1.15	0.08	0.01	0.01	3.75	0.29	0.14	0.06
1.20	0.09	0.01	0.02	3.80	0.30	0.14	0.06
1.25	0.09	0.01	0.02	3.85	0.30	0.15	0.06
1.30	0.09	0.01	0.02	3.90	0.31	0.15	0.06
1.35	0.10	0.01	0.02	3.95	0.31	0.15	0.06
1.40	0.10	0.01	0.02	4.00	0.32	0.16	0.06
1.45	0.10	0.01	0.02	4.05	0.32	0.16	0.06
1.50	0.11	0.02	0.02	4.10	0.32	0.17	0.06
1.55	0.11	0.02	0.02	4.15	0.33	0.17	0.06
1.60	0.11	0.02	0.03	4.20	0.33	0.17	0.06
1.65	0.12	0.02	0.03	4.25	0.34	0.18	0.06
1.70	0.12	0.02	0.03	4.30	0.34	0.18	0.06
1.75	0.13	0.03	0.03	4.35	0.35	0.18	0.06
1.80	0.13	0.03	0.03	4.40	0.35	0.19	0.06
1.85	0.13	0.03	0.03	4.45	0.36	0.19	0.06
1.90	0.14	0.03	0.03	4.50	0.36	0.20	0.06
1.95	0.14	0.03	0.03	4.55	0.37	0.20	0.06
2.00	0.15	0.04	0.03	4.60	0.37	0.20	0.06
2.05	0.15	0.04	0.03	4.65	0.38	0.21	0.06
2.10	0.15	0.04	0.04	4.70	0.38	0.21	0.07
2.15	0.16	0.04	0.04	4.75	0.39	0.22	0.07
2.20	0.16	0.04	0.04	4.80	0.39	0.22	0.07
2.25	0.17	0.05	0.04	4.85	0.40	0.23	0.07
2.30	0.17	0.05	0.04	4.90	0.40	0.23	0.07
2.35	0.17	0.05	0.04	4.95	0.41	0.23	0.07
2.40	0.18	0.05	0.04	5.00	0.41	0.24	0.07
2.45	0.18	0.06	0.04	5.05	0.42	0.24	0.07
2.50	0.19	0.06	0.04	5.10	0.42	0.25	0.07
2.55	0.19	0.06	0.04	5.15	0.42	0.25	0.07

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.43	0.26	0.07	7.80	0.74	0.54	0.11
5.25	0.43	0.26	0.07	7.85	0.75	0.55	0.11
5.30	0.44	0.26	0.07	7.90	0.76	0.56	0.12
5.35	0.44	0.27	0.07	7.95	0.77	0.56	0.12
5.40	0.45	0.27	0.07	8.00	0.77	0.57	0.12
5.45	0.45	0.28	0.07	8.05	0.78	0.58	0.12
5.50	0.46	0.28	0.07	8.10	0.79	0.59	0.12
5.55	0.46	0.29	0.07	8.15	0.80	0.60	0.12
5.60	0.47	0.29	0.07	8.20	0.80	0.60	0.12
5.65	0.48	0.30	0.07	8.25	0.81	0.61	0.12
5.70	0.48	0.30	0.07	8.30	0.82	0.62	0.12
5.75	0.49	0.30	0.07	8.35	0.83	0.63	0.12
5.80	0.49	0.31	0.07	8.40	0.84	0.63	0.13
5.85	0.50	0.31	0.07	8.45	0.85	0.64	0.13
5.90	0.50	0.32	0.07	8.50	0.85	0.65	0.13
5.95	0.51	0.32	0.08	8.55	0.86	0.66	0.13
6.00	0.51	0.33	0.08	8.60	0.87	0.67	0.13
6.05	0.52	0.33	0.08	8.65	0.88	0.67	0.13
6.10	0.52	0.34	0.08	8.70	0.89	0.68	0.13
6.15	0.53	0.34	0.08	8.75	0.90	0.69	0.13
6.20	0.53	0.35	0.08	8.80	0.91	0.70	0.13
6.25	0.54	0.35	0.08	8.85	0.91	0.71	0.14
6.30	0.54	0.36	0.08	8.90	0.92	0.72	0.14
6.35	0.55	0.36	0.08	8.95	0.93	0.73	0.14
6.40	0.56	0.37	0.08	9.00	0.94	0.73	0.14
6.45	0.56	0.37	0.08	9.05	0.95	0.74	0.14
6.50	0.57	0.38	0.09	9.10	0.96	0.75	0.14
6.55	0.57	0.38	0.09	9.15	0.97	0.76	0.15
6.60	0.58	0.39	0.09	9.20	0.98	0.77	0.15
6.65	0.58	0.40	0.09	9.25	0.99	0.78	0.15
6.70	0.59	0.40	0.09	9.30	1.00	0.79	0.16
6.75	0.60	0.41	0.09	9.35	1.01	0.80	0.16
6.80	0.60	0.41	0.09	9.40	1.02	0.81	0.17
6.85	0.61	0.42	0.09	9.45	1.04	0.83	0.17
6.90	0.62	0.42	0.09	9.50	1.05	0.84	0.17
6.95	0.62	0.43	0.09	9.55	1.06	0.85	0.18
7.00	0.63	0.44	0.10	9.60	1.07	0.86	0.18
7.05	0.64	0.44	0.10	9.65	1.08	0.87	0.19
7.10	0.64	0.45	0.10	9.70	1.10	0.88	0.19
7.15	0.65	0.46	0.10	9.75	1.11	0.90	0.19
7.20	0.66	0.46	0.10	9.80	1.12	0.91	0.20
7.25	0.66	0.47	0.10	9.85	1.13	0.92	0.20
7.30	0.67	0.47	0.10	9.90	1.15	0.94	0.21
7.35	0.68	0.48	0.10	9.95	1.16	0.95	0.21
7.40	0.68	0.49	0.10	10.00	1.18	0.96	0.21
7.45	0.69	0.49	0.11	10.05	1.19	0.98	0.22
7.50	0.70	0.50	0.11	10.10	1.20	0.99	0.22
7.55	0.70	0.51	0.11	10.15	1.22	1.00	0.22
7.60	0.71	0.51	0.11	10.20	1.23	1.02	0.23
7.65	0.72	0.52	0.11	10.25	1.25	1.03	0.23
7.70	0.73	0.53	0.11	10.30	1.27	1.05	0.24
7.75	0.73	0.54	0.11	10.35	1.28	1.06	0.24

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.30	1.08	0.24	13.00	4.90	4.67	0.51
10.45	1.31	1.10	0.25	13.05	4.93	4.69	0.48
10.50	1.33	1.11	0.25	13.10	4.95	4.72	0.45
10.55	1.35	1.13	0.26	13.15	4.98	4.74	0.43
10.60	1.37	1.15	0.27	13.20	5.00	4.76	0.41
10.65	1.39	1.17	0.28	13.25	5.02	4.79	0.39
10.70	1.41	1.19	0.30	13.30	5.04	4.81	0.37
10.75	1.43	1.21	0.31	13.35	5.06	4.83	0.36
10.80	1.45	1.23	0.33	13.40	5.08	4.85	0.34
10.85	1.47	1.25	0.34	13.45	5.10	4.87	0.33
10.90	1.50	1.28	0.36	13.50	5.12	4.88	0.31
10.95	1.52	1.30	0.37	13.55	5.14	4.90	0.30
11.00	1.55	1.33	0.39	13.60	5.15	4.92	0.28
11.05	1.58	1.36	0.40	13.65	5.17	4.93	0.27
11.10	1.61	1.38	0.43	13.70	5.18	4.95	0.27
11.15	1.64	1.42	0.45	13.75	5.20	4.96	0.26
11.20	1.67	1.45	0.48	13.80	5.22	4.98	0.25
11.25	1.71	1.48	0.50	13.85	5.23	4.99	0.25
11.30	1.74	1.52	0.53	13.90	5.25	5.01	0.25
11.35	1.78	1.56	0.56	13.95	5.26	5.02	0.24
11.40	1.82	1.60	0.59	14.00	5.27	5.04	0.24
11.45	1.86	1.64	0.61	14.05	5.29	5.05	0.23
11.50	1.91	1.68	0.64	14.10	5.30	5.06	0.23
11.55	1.97	1.75	0.71	14.15	5.32	5.08	0.23
11.60	2.04	1.81	0.85	14.20	5.33	5.09	0.22
11.65	2.11	1.88	0.94	14.25	5.34	5.10	0.22
11.70	2.17	1.95	1.01	14.30	5.35	5.12	0.21
11.75	2.27	2.04	1.11	14.35	5.37	5.13	0.21
11.80	2.36	2.13	1.28	14.40	5.38	5.14	0.21
11.85	2.49	2.26	1.47	14.45	5.39	5.15	0.20
11.90	2.62	2.39	1.73	14.50	5.40	5.17	0.20
11.95	2.85	2.62	2.12	14.55	5.41	5.18	0.19
12.00	3.07	2.84	2.75	14.60	5.43	5.19	0.19
12.05	3.45	3.22	3.49	14.65	5.44	5.20	0.19
12.10	3.83	3.59	**4.57**	14.70	5.45	5.21	0.18
12.15	3.96	3.72	**4.60**	14.75	5.46	5.22	0.18
12.20	4.09	3.85	3.60	14.80	5.47	5.23	0.17
12.25	4.18	3.95	2.90	14.85	5.48	5.24	0.17
12.30	4.28	4.04	2.32	14.90	5.49	5.25	0.17
12.35	4.34	4.11	1.91	14.95	5.50	5.26	0.16
12.40	4.41	4.18	1.55	15.00	5.51	5.27	0.16
12.45	4.48	4.24	1.34	15.05	5.52	5.28	0.16
12.50	4.54	4.31	1.20	15.10	5.53	5.29	0.15
12.55	4.59	4.35	1.07	15.15	5.54	5.30	0.15
12.60	4.63	4.39	0.90	15.20	5.54	5.31	0.15
12.65	4.67	4.43	0.79	15.25	5.55	5.32	0.14
12.70	4.71	4.47	0.72	15.30	5.56	5.32	0.14
12.75	4.74	4.51	0.67	15.35	5.57	5.33	0.14
12.80	4.78	4.54	0.63	15.40	5.58	5.34	0.14
12.85	4.81	4.57	0.60	15.45	5.59	5.35	0.14
12.90	4.84	4.61	0.57	15.50	5.60	5.36	0.14
12.95	4.87	4.64	0.54	15.55	5.60	5.37	0.14

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.61	5.37	0.14	18.20	5.96	5.72	0.08
15.65	5.62	5.38	0.14	18.25	5.96	5.73	0.08
15.70	5.63	5.39	0.13	18.30	5.97	5.73	0.08
15.75	5.64	5.40	0.13	18.35	5.97	5.74	0.08
15.80	5.65	5.41	0.13	18.40	5.98	5.74	0.08
15.85	5.65	5.42	0.13	18.45	5.99	5.75	0.08
15.90	5.66	5.42	0.13	18.50	5.99	5.75	0.08
15.95	5.67	5.43	0.13	18.55	6.00	5.76	0.08
16.00	5.68	5.44	0.13	18.60	6.00	5.76	0.08
16.05	5.68	5.45	0.13	18.65	6.01	5.77	0.08
16.10	5.69	5.45	0.13	18.70	6.01	5.77	0.08
16.15	5.70	5.46	0.13	18.75	6.02	5.78	0.08
16.20	5.71	5.47	0.12	18.80	6.02	5.78	0.08
16.25	5.72	5.48	0.12	18.85	6.03	5.79	0.08
16.30	5.72	5.49	0.12	18.90	6.03	5.79	0.08
16.35	5.73	5.49	0.12	18.95	6.03	5.80	0.08
16.40	5.74	5.50	0.12	19.00	6.04	5.80	0.08
16.45	5.75	5.51	0.12	19.05	6.04	5.81	0.08
16.50	5.75	5.51	0.12	19.10	6.05	5.81	0.08
16.55	5.76	5.52	0.12	19.15	6.05	5.82	0.08
16.60	5.77	5.53	0.12	19.20	6.06	5.82	0.08
16.65	5.77	5.54	0.12	19.25	6.06	5.83	0.08
16.70	5.78	5.54	0.11	19.30	6.07	5.83	0.08
16.75	5.79	5.55	0.11	19.35	6.07	5.84	0.08
16.80	5.79	5.56	0.11	19.40	6.08	5.84	0.08
16.85	5.80	5.56	0.11	19.45	6.08	5.84	0.08
16.90	5.81	5.57	0.11	19.50	6.09	5.85	0.08
16.95	5.81	5.58	0.11	19.55	6.09	5.85	0.08
17.00	5.82	5.58	0.11	19.60	6.10	5.86	0.08
17.05	5.83	5.59	0.11	19.65	6.10	5.86	0.08
17.10	5.83	5.60	0.11	19.70	6.11	5.87	0.08
17.15	5.84	5.60	0.10	19.75	6.11	5.87	0.08
17.20	5.85	5.61	0.10	19.80	6.12	5.88	0.08
17.25	5.85	5.61	0.10	19.85	6.12	5.88	0.08
17.30	5.86	5.62	0.10	19.90	6.13	5.89	0.07
17.35	5.87	5.63	0.10	19.95	6.13	5.89	0.07
17.40	5.87	5.63	0.10	20.00	6.13	5.90	0.07
17.45	5.88	5.64	0.10	20.05	6.14	5.90	0.07
17.50	5.88	5.65	0.10	20.10	6.14	5.91	0.07
17.55	5.89	5.65	0.10	20.15	6.15	5.91	0.07
17.60	5.89	5.66	0.10	20.20	6.15	5.91	0.07
17.65	5.90	5.66	0.09	20.25	6.16	5.92	0.07
17.70	5.91	5.67	0.09	20.30	6.16	5.92	0.07
17.75	5.91	5.67	0.09	20.35	6.17	5.93	0.07
17.80	5.92	5.68	0.09	20.40	6.17	5.93	0.07
17.85	5.92	5.68	0.09	20.45	6.17	5.94	0.07
17.90	5.93	5.69	0.09	20.50	6.18	5.94	0.07
17.95	5.93	5.70	0.09	20.55	6.18	5.95	0.07
18.00	5.94	5.70	0.09	20.60	6.19	5.95	0.07
18.05	5.94	5.71	0.09	20.65	6.19	5.95	0.07
18.10	5.95	5.71	0.09	20.70	6.20	5.96	0.07
18.15	5.95	5.72	0.08	20.75	6.20	5.96	0.07

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	6.21	5.97	0.07	23.40	6.41	6.17	0.06
20.85	6.21	5.97	0.07	23.45	6.41	6.17	0.06
20.90	6.21	5.98	0.07	23.50	6.41	6.18	0.06
20.95	6.22	5.98	0.07	23.55	6.42	6.18	0.06
21.00	6.22	5.98	0.07	23.60	6.42	6.18	0.06
21.05	6.23	5.99	0.07	23.65	6.42	6.19	0.06
21.10	6.23	5.99	0.07	23.70	6.43	6.19	0.06
21.15	6.24	6.00	0.07	23.75	6.43	6.19	0.06
21.20	6.24	6.00	0.07	23.80	6.44	6.20	0.05
21.25	6.24	6.01	0.07	23.85	6.44	6.20	0.05
21.30	6.25	6.01	0.07	23.90	6.44	6.20	0.05
21.35	6.25	6.01	0.07	23.95	6.45	6.21	0.06
21.40	6.26	6.02	0.07	24.00	**6.45**	**6.21**	0.06
21.45	6.26	6.02	0.07				
21.50	6.26	6.03	0.07				
21.55	6.27	6.03	0.07				
21.60	6.27	6.03	0.07				
21.65	6.28	6.04	0.07				
21.70	6.28	6.04	0.07				
21.75	6.28	6.05	0.07				
21.80	6.29	6.05	0.07				
21.85	6.29	6.05	0.06				
21.90	6.30	6.06	0.06				
21.95	6.30	6.06	0.06				
22.00	6.30	6.07	0.06				
22.05	6.31	6.07	0.06				
22.10	6.31	6.07	0.06				
22.15	6.32	6.08	0.06				
22.20	6.32	6.08	0.06				
22.25	6.32	6.09	0.06				
22.30	6.33	6.09	0.06				
22.35	6.33	6.09	0.06				
22.40	6.34	6.10	0.06				
22.45	6.34	6.10	0.06				
22.50	6.34	6.10	0.06				
22.55	6.35	6.11	0.06				
22.60	6.35	6.11	0.06				
22.65	6.35	6.12	0.06				
22.70	6.36	6.12	0.06				
22.75	6.36	6.12	0.06				
22.80	6.36	6.13	0.06				
22.85	6.37	6.13	0.06				
22.90	6.37	6.13	0.06				
22.95	6.38	6.14	0.06				
23.00	6.38	6.14	0.06				
23.05	6.38	6.14	0.06				
23.10	6.39	6.15	0.06				
23.15	6.39	6.15	0.06				
23.20	6.39	6.16	0.06				
23.25	6.40	6.16	0.06				
23.30	6.40	6.16	0.06				
23.35	6.40	6.17	0.06				

Summary for Subcatchment EDA3 PERV: EDA3 PERV

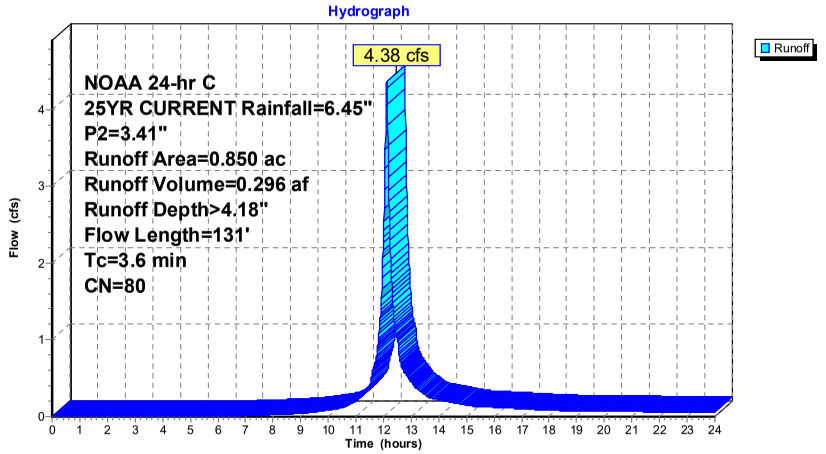
Runoff = 4.38 cfs @ 12.12 hrs, Volume= 0.296 af, Depth> 4.18"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR CURRENT Rainfall=6.45", P2=3.41"

Area (ac)	CN	Description
0.850	80	>75% Grass cover, Good, HSG D
0.850		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	23	0.0200	0.13		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.1	42	0.0150	5.59	6.86	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
3.6	131	Total			

Subcatchment EDA3 PERV: EDA3 PERV



Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.20	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.20	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.21	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.21	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.21	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.22	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.22	0.00	0.00
0.40	0.03	0.00	0.00	3.00	0.23	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.23	0.00	0.00
0.50	0.04	0.00	0.00	3.10	0.24	0.00	0.00
0.55	0.04	0.00	0.00	3.15	0.24	0.00	0.00
0.60	0.04	0.00	0.00	3.20	0.24	0.00	0.00
0.65	0.05	0.00	0.00	3.25	0.25	0.00	0.00
0.70	0.05	0.00	0.00	3.30	0.25	0.00	0.00
0.75	0.05	0.00	0.00	3.35	0.26	0.00	0.00
0.80	0.06	0.00	0.00	3.40	0.26	0.00	0.00
0.85	0.06	0.00	0.00	3.45	0.27	0.00	0.00
0.90	0.06	0.00	0.00	3.50	0.27	0.00	0.00
0.95	0.07	0.00	0.00	3.55	0.28	0.00	0.00
1.00	0.07	0.00	0.00	3.60	0.28	0.00	0.00
1.05	0.07	0.00	0.00	3.65	0.28	0.00	0.00
1.10	0.08	0.00	0.00	3.70	0.29	0.00	0.00
1.15	0.08	0.00	0.00	3.75	0.29	0.00	0.00
1.20	0.09	0.00	0.00	3.80	0.30	0.00	0.00
1.25	0.09	0.00	0.00	3.85	0.30	0.00	0.00
1.30	0.09	0.00	0.00	3.90	0.31	0.00	0.00
1.35	0.10	0.00	0.00	3.95	0.31	0.00	0.00
1.40	0.10	0.00	0.00	4.00	0.32	0.00	0.00
1.45	0.10	0.00	0.00	4.05	0.32	0.00	0.00
1.50	0.11	0.00	0.00	4.10	0.32	0.00	0.00
1.55	0.11	0.00	0.00	4.15	0.33	0.00	0.00
1.60	0.11	0.00	0.00	4.20	0.33	0.00	0.00
1.65	0.12	0.00	0.00	4.25	0.34	0.00	0.00
1.70	0.12	0.00	0.00	4.30	0.34	0.00	0.00
1.75	0.13	0.00	0.00	4.35	0.35	0.00	0.00
1.80	0.13	0.00	0.00	4.40	0.35	0.00	0.00
1.85	0.13	0.00	0.00	4.45	0.36	0.00	0.00
1.90	0.14	0.00	0.00	4.50	0.36	0.00	0.00
1.95	0.14	0.00	0.00	4.55	0.37	0.00	0.00
2.00	0.15	0.00	0.00	4.60	0.37	0.00	0.00
2.05	0.15	0.00	0.00	4.65	0.38	0.00	0.00
2.10	0.15	0.00	0.00	4.70	0.38	0.00	0.00
2.15	0.16	0.00	0.00	4.75	0.39	0.00	0.00
2.20	0.16	0.00	0.00	4.80	0.39	0.00	0.00
2.25	0.17	0.00	0.00	4.85	0.40	0.00	0.00
2.30	0.17	0.00	0.00	4.90	0.40	0.00	0.00
2.35	0.17	0.00	0.00	4.95	0.41	0.00	0.00
2.40	0.18	0.00	0.00	5.00	0.41	0.00	0.00
2.45	0.18	0.00	0.00	5.05	0.42	0.00	0.00
2.50	0.19	0.00	0.00	5.10	0.42	0.00	0.00
2.55	0.19	0.00	0.00	5.15	0.42	0.00	0.00

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.43	0.00	0.00	7.80	0.74	0.02	0.02
5.25	0.43	0.00	0.00	7.85	0.75	0.02	0.02
5.30	0.44	0.00	0.00	7.90	0.76	0.02	0.02
5.35	0.44	0.00	0.00	7.95	0.77	0.03	0.02
5.40	0.45	0.00	0.00	8.00	0.77	0.03	0.02
5.45	0.45	0.00	0.00	8.05	0.78	0.03	0.02
5.50	0.46	0.00	0.00	8.10	0.79	0.03	0.03
5.55	0.46	0.00	0.00	8.15	0.80	0.03	0.03
5.60	0.47	0.00	0.00	8.20	0.80	0.03	0.03
5.65	0.48	0.00	0.00	8.25	0.81	0.03	0.03
5.70	0.48	0.00	0.00	8.30	0.82	0.04	0.03
5.75	0.49	0.00	0.00	8.35	0.83	0.04	0.03
5.80	0.49	0.00	0.00	8.40	0.84	0.04	0.03
5.85	0.50	0.00	0.00	8.45	0.85	0.04	0.03
5.90	0.50	0.00	0.00	8.50	0.85	0.04	0.03
5.95	0.51	0.00	0.00	8.55	0.86	0.05	0.03
6.00	0.51	0.00	0.00	8.60	0.87	0.05	0.03
6.05	0.52	0.00	0.00	8.65	0.88	0.05	0.03
6.10	0.52	0.00	0.00	8.70	0.89	0.05	0.04
6.15	0.53	0.00	0.00	8.75	0.90	0.05	0.04
6.20	0.53	0.00	0.00	8.80	0.91	0.06	0.04
6.25	0.54	0.00	0.00	8.85	0.91	0.06	0.04
6.30	0.54	0.00	0.00	8.90	0.92	0.06	0.04
6.35	0.55	0.00	0.00	8.95	0.93	0.06	0.04
6.40	0.56	0.00	0.00	9.00	0.94	0.07	0.04
6.45	0.56	0.00	0.00	9.05	0.95	0.07	0.04
6.50	0.57	0.00	0.00	9.10	0.96	0.07	0.04
6.55	0.57	0.00	0.00	9.15	0.97	0.07	0.05
6.60	0.58	0.00	0.01	9.20	0.98	0.08	0.05
6.65	0.58	0.00	0.01	9.25	0.99	0.08	0.05
6.70	0.59	0.00	0.01	9.30	1.00	0.08	0.05
6.75	0.60	0.00	0.01	9.35	1.01	0.09	0.05
6.80	0.60	0.00	0.01	9.40	1.02	0.09	0.06
6.85	0.61	0.00	0.01	9.45	1.04	0.09	0.06
6.90	0.62	0.01	0.01	9.50	1.05	0.10	0.06
6.95	0.62	0.01	0.01	9.55	1.06	0.10	0.06
7.00	0.63	0.01	0.01	9.60	1.07	0.11	0.07
7.05	0.64	0.01	0.01	9.65	1.08	0.11	0.07
7.10	0.64	0.01	0.01	9.70	1.10	0.11	0.07
7.15	0.65	0.01	0.01	9.75	1.11	0.12	0.07
7.20	0.66	0.01	0.01	9.80	1.12	0.12	0.08
7.25	0.66	0.01	0.01	9.85	1.13	0.13	0.08
7.30	0.67	0.01	0.01	9.90	1.15	0.13	0.08
7.35	0.68	0.01	0.01	9.95	1.16	0.14	0.08
7.40	0.68	0.01	0.01	10.00	1.18	0.14	0.09
7.45	0.69	0.01	0.02	10.05	1.19	0.15	0.09
7.50	0.70	0.01	0.02	10.10	1.20	0.15	0.09
7.55	0.70	0.02	0.02	10.15	1.22	0.16	0.10
7.60	0.71	0.02	0.02	10.20	1.23	0.17	0.10
7.65	0.72	0.02	0.02	10.25	1.25	0.17	0.10
7.70	0.73	0.02	0.02	10.30	1.27	0.18	0.10
7.75	0.73	0.02	0.02	10.35	1.28	0.19	0.11

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.30	0.19	0.11	13.00	4.90	2.81	0.45
10.45	1.31	0.20	0.11	13.05	4.93	2.83	0.43
10.50	1.33	0.21	0.12	13.10	4.95	2.85	0.40
10.55	1.35	0.21	0.12	13.15	4.98	2.87	0.38
10.60	1.37	0.22	0.13	13.20	5.00	2.89	0.37
10.65	1.39	0.23	0.14	13.25	5.02	2.91	0.35
10.70	1.41	0.24	0.15	13.30	5.04	2.93	0.34
10.75	1.43	0.25	0.16	13.35	5.06	2.95	0.32
10.80	1.45	0.26	0.17	13.40	5.08	2.97	0.31
10.85	1.47	0.27	0.18	13.45	5.10	2.98	0.30
10.90	1.50	0.28	0.19	13.50	5.12	3.00	0.28
10.95	1.52	0.30	0.20	13.55	5.14	3.01	0.27
11.00	1.55	0.31	0.21	13.60	5.15	3.03	0.26
11.05	1.58	0.32	0.22	13.65	5.17	3.04	0.25
11.10	1.61	0.34	0.24	13.70	5.18	3.05	0.24
11.15	1.64	0.36	0.26	13.75	5.20	3.07	0.24
11.20	1.67	0.37	0.28	13.80	5.22	3.08	0.23
11.25	1.71	0.39	0.30	13.85	5.23	3.09	0.23
11.30	1.74	0.41	0.32	13.90	5.25	3.11	0.23
11.35	1.78	0.43	0.34	13.95	5.26	3.12	0.22
11.40	1.82	0.46	0.36	14.00	5.27	3.13	0.22
11.45	1.86	0.48	0.38	14.05	5.29	3.15	0.22
11.50	1.91	0.51	0.40	14.10	5.30	3.16	0.21
11.55	1.97	0.55	0.48	14.15	5.32	3.17	0.21
11.60	2.04	0.58	0.58	14.20	5.33	3.18	0.21
11.65	2.11	0.63	0.65	14.25	5.34	3.19	0.20
11.70	2.17	0.67	0.70	14.30	5.35	3.20	0.20
11.75	2.27	0.73	0.81	14.35	5.37	3.22	0.19
11.80	2.36	0.79	0.94	14.40	5.38	3.23	0.19
11.85	2.49	0.88	1.14	14.45	5.39	3.24	0.19
11.90	2.62	0.98	1.35	14.50	5.40	3.25	0.18
11.95	2.85	1.14	1.81	14.55	5.41	3.26	0.18
12.00	3.07	1.31	2.35	14.60	5.43	3.27	0.18
12.05	3.45	1.60	3.23	14.65	5.44	3.28	0.17
12.10	3.83	1.90	**4.21**	14.70	5.45	3.29	0.17
12.15	3.96	2.01	**3.80**	14.75	5.46	3.30	0.17
12.20	4.09	2.11	2.80	14.80	5.47	3.31	0.16
12.25	4.18	2.19	2.17	14.85	5.48	3.31	0.16
12.30	4.28	2.27	1.73	14.90	5.49	3.32	0.16
12.35	4.34	2.33	1.41	14.95	5.50	3.33	0.15
12.40	4.41	2.39	1.18	15.00	5.51	3.34	0.15
12.45	4.48	2.44	1.06	15.05	5.52	3.35	0.14
12.50	4.54	2.50	1.00	15.10	5.53	3.36	0.14
12.55	4.59	2.54	0.87	15.15	5.54	3.36	0.14
12.60	4.63	2.57	0.74	15.20	5.54	3.37	0.14
12.65	4.67	2.61	0.66	15.25	5.55	3.38	0.14
12.70	4.71	2.64	0.62	15.30	5.56	3.39	0.13
12.75	4.74	2.67	0.58	15.35	5.57	3.40	0.13
12.80	4.78	2.70	0.55	15.40	5.58	3.40	0.13
12.85	4.81	2.73	0.53	15.45	5.59	3.41	0.13
12.90	4.84	2.76	0.50	15.50	5.60	3.42	0.13
12.95	4.87	2.78	0.48	15.55	5.60	3.43	0.13

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.61	3.43	0.13	18.20	5.96	3.74	0.08
15.65	5.62	3.44	0.13	18.25	5.96	3.75	0.08
15.70	5.63	3.45	0.13	18.30	5.97	3.75	0.08
15.75	5.64	3.46	0.13	18.35	5.97	3.76	0.08
15.80	5.65	3.46	0.13	18.40	5.98	3.76	0.08
15.85	5.65	3.47	0.12	18.45	5.99	3.77	0.08
15.90	5.66	3.48	0.12	18.50	5.99	3.77	0.08
15.95	5.67	3.48	0.12	18.55	6.00	3.78	0.08
16.00	5.68	3.49	0.12	18.60	6.00	3.78	0.08
16.05	5.68	3.50	0.12	18.65	6.01	3.79	0.08
16.10	5.69	3.51	0.12	18.70	6.01	3.79	0.08
16.15	5.70	3.51	0.12	18.75	6.02	3.79	0.08
16.20	5.71	3.52	0.12	18.80	6.02	3.80	0.08
16.25	5.72	3.53	0.12	18.85	6.03	3.80	0.08
16.30	5.72	3.53	0.12	18.90	6.03	3.81	0.08
16.35	5.73	3.54	0.11	18.95	6.03	3.81	0.08
16.40	5.74	3.55	0.11	19.00	6.04	3.82	0.08
16.45	5.75	3.55	0.11	19.05	6.04	3.82	0.08
16.50	5.75	3.56	0.11	19.10	6.05	3.83	0.08
16.55	5.76	3.56	0.11	19.15	6.05	3.83	0.08
16.60	5.77	3.57	0.11	19.20	6.06	3.83	0.08
16.65	5.77	3.58	0.11	19.25	6.06	3.84	0.07
16.70	5.78	3.58	0.11	19.30	6.07	3.84	0.07
16.75	5.79	3.59	0.11	19.35	6.07	3.85	0.07
16.80	5.79	3.60	0.11	19.40	6.08	3.85	0.07
16.85	5.80	3.60	0.11	19.45	6.08	3.86	0.07
16.90	5.81	3.61	0.10	19.50	6.09	3.86	0.07
16.95	5.81	3.61	0.10	19.55	6.09	3.86	0.07
17.00	5.82	3.62	0.10	19.60	6.10	3.87	0.07
17.05	5.83	3.63	0.10	19.65	6.10	3.87	0.07
17.10	5.83	3.63	0.10	19.70	6.11	3.88	0.07
17.15	5.84	3.64	0.10	19.75	6.11	3.88	0.07
17.20	5.85	3.64	0.10	19.80	6.12	3.89	0.07
17.25	5.85	3.65	0.10	19.85	6.12	3.89	0.07
17.30	5.86	3.65	0.10	19.90	6.13	3.89	0.07
17.35	5.87	3.66	0.10	19.95	6.13	3.90	0.07
17.40	5.87	3.67	0.09	20.00	6.13	3.90	0.07
17.45	5.88	3.67	0.09	20.05	6.14	3.91	0.07
17.50	5.88	3.68	0.09	20.10	6.14	3.91	0.07
17.55	5.89	3.68	0.09	20.15	6.15	3.92	0.07
17.60	5.89	3.69	0.09	20.20	6.15	3.92	0.07
17.65	5.90	3.69	0.09	20.25	6.16	3.92	0.07
17.70	5.91	3.70	0.09	20.30	6.16	3.93	0.07
17.75	5.91	3.70	0.09	20.35	6.17	3.93	0.07
17.80	5.92	3.71	0.09	20.40	6.17	3.94	0.07
17.85	5.92	3.71	0.09	20.45	6.17	3.94	0.07
17.90	5.93	3.72	0.08	20.50	6.18	3.94	0.07
17.95	5.93	3.72	0.08	20.55	6.18	3.95	0.07
18.00	5.94	3.73	0.08	20.60	6.19	3.95	0.07
18.05	5.94	3.73	0.08	20.65	6.19	3.96	0.07
18.10	5.95	3.74	0.08	20.70	6.20	3.96	0.07
18.15	5.95	3.74	0.08	20.75	6.20	3.96	0.07

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	6.21	3.97	0.07	23.40	6.41	4.15	0.05
20.85	6.21	3.97	0.07	23.45	6.41	4.15	0.05
20.90	6.21	3.97	0.07	23.50	6.41	4.16	0.05
20.95	6.22	3.98	0.07	23.55	6.42	4.16	0.05
21.00	6.22	3.98	0.07	23.60	6.42	4.16	0.05
21.05	6.23	3.99	0.07	23.65	6.42	4.17	0.05
21.10	6.23	3.99	0.07	23.70	6.43	4.17	0.05
21.15	6.24	3.99	0.07	23.75	6.43	4.17	0.05
21.20	6.24	4.00	0.07	23.80	6.44	4.18	0.05
21.25	6.24	4.00	0.07	23.85	6.44	4.18	0.05
21.30	6.25	4.01	0.07	23.90	6.44	4.18	0.05
21.35	6.25	4.01	0.06	23.95	6.45	4.19	0.06
21.40	6.26	4.01	0.06	24.00	**6.45**	**4.19**	0.06
21.45	6.26	4.02	0.06				
21.50	6.26	4.02	0.06				
21.55	6.27	4.02	0.06				
21.60	6.27	4.03	0.06				
21.65	6.28	4.03	0.06				
21.70	6.28	4.04	0.06				
21.75	6.28	4.04	0.06				
21.80	6.29	4.04	0.06				
21.85	6.29	4.05	0.06				
21.90	6.30	4.05	0.06				
21.95	6.30	4.05	0.06				
22.00	6.30	4.06	0.06				
22.05	6.31	4.06	0.06				
22.10	6.31	4.06	0.06				
22.15	6.32	4.07	0.06				
22.20	6.32	4.07	0.06				
22.25	6.32	4.07	0.06				
22.30	6.33	4.08	0.06				
22.35	6.33	4.08	0.06				
22.40	6.34	4.08	0.06				
22.45	6.34	4.09	0.06				
22.50	6.34	4.09	0.06				
22.55	6.35	4.10	0.06				
22.60	6.35	4.10	0.06				
22.65	6.35	4.10	0.06				
22.70	6.36	4.11	0.06				
22.75	6.36	4.11	0.06				
22.80	6.36	4.11	0.06				
22.85	6.37	4.12	0.06				
22.90	6.37	4.12	0.06				
22.95	6.38	4.12	0.06				
23.00	6.38	4.13	0.06				
23.05	6.38	4.13	0.06				
23.10	6.39	4.13	0.06				
23.15	6.39	4.14	0.06				
23.20	6.39	4.14	0.06				
23.25	6.40	4.14	0.06				
23.30	6.40	4.14	0.06				
23.35	6.40	4.15	0.06				

Summary for Subcatchment EDA4 IMP: EDA4 IMP

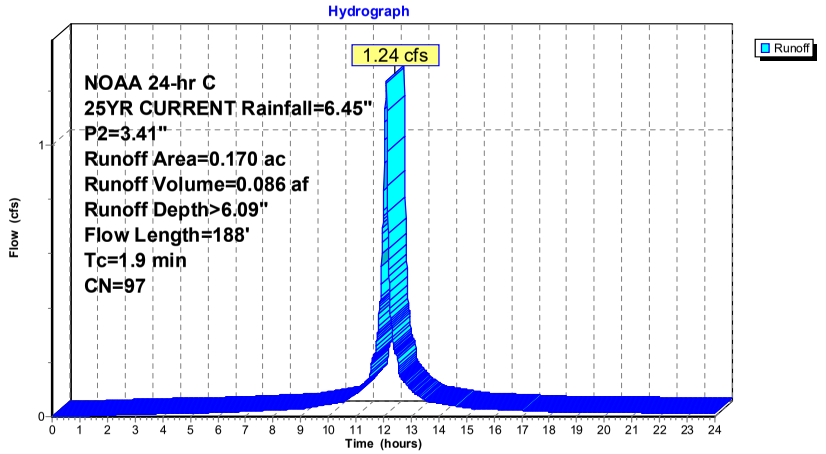
Runoff = 1.24 cfs @ 12.10 hrs, Volume= 0.086 af, Depth> 6.09"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR CURRENT Rainfall=6.45", P2=3.41"

	Area (ac)	CN	Description
*	0.120	98	Impervious vehicular
	0.050	96	Gravel surface, HSG D
	0.170	97	Weighted Average
	0.050		29.41% Pervious Area
	0.120		70.59% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	100	0.0160	1.30		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.6	88	0.0150	2.49		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
1.9	188	Total			

Subcatchment EDA4 IMP: EDA4 IMP



Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.04	0.01
0.05	0.00	0.00	0.00	2.65	0.20	0.04	0.01
0.10	0.01	0.00	0.00	2.70	0.20	0.04	0.01
0.15	0.01	0.00	0.00	2.75	0.21	0.05	0.01
0.20	0.01	0.00	0.00	2.80	0.21	0.05	0.01
0.25	0.02	0.00	0.00	2.85	0.21	0.05	0.01
0.30	0.02	0.00	0.00	2.90	0.22	0.05	0.01
0.35	0.03	0.00	0.00	2.95	0.22	0.06	0.01
0.40	0.03	0.00	0.00	3.00	0.23	0.06	0.01
0.45	0.03	0.00	0.00	3.05	0.23	0.06	0.01
0.50	0.04	0.00	0.00	3.10	0.24	0.06	0.01
0.55	0.04	0.00	0.00	3.15	0.24	0.07	0.01
0.60	0.04	0.00	0.00	3.20	0.24	0.07	0.01
0.65	0.05	0.00	0.00	3.25	0.25	0.07	0.01
0.70	0.05	0.00	0.00	3.30	0.25	0.07	0.01
0.75	0.05	0.00	0.00	3.35	0.26	0.08	0.01
0.80	0.06	0.00	0.00	3.40	0.26	0.08	0.01
0.85	0.06	0.00	0.00	3.45	0.27	0.08	0.01
0.90	0.06	0.00	0.00	3.50	0.27	0.08	0.01
0.95	0.07	0.00	0.00	3.55	0.28	0.09	0.01
1.00	0.07	0.00	0.00	3.60	0.28	0.09	0.01
1.05	0.07	0.00	0.00	3.65	0.28	0.09	0.01
1.10	0.08	0.00	0.00	3.70	0.29	0.10	0.01
1.15	0.08	0.00	0.00	3.75	0.29	0.10	0.01
1.20	0.09	0.00	0.00	3.80	0.30	0.10	0.01
1.25	0.09	0.00	0.00	3.85	0.30	0.10	0.01
1.30	0.09	0.00	0.00	3.90	0.31	0.11	0.01
1.35	0.10	0.00	0.00	3.95	0.31	0.11	0.01
1.40	0.10	0.00	0.00	4.00	0.32	0.11	0.01
1.45	0.10	0.00	0.00	4.05	0.32	0.12	0.01
1.50	0.11	0.01	0.00	4.10	0.32	0.12	0.01
1.55	0.11	0.01	0.00	4.15	0.33	0.12	0.01
1.60	0.11	0.01	0.00	4.20	0.33	0.13	0.01
1.65	0.12	0.01	0.00	4.25	0.34	0.13	0.01
1.70	0.12	0.01	0.00	4.30	0.34	0.13	0.01
1.75	0.13	0.01	0.00	4.35	0.35	0.14	0.01
1.80	0.13	0.01	0.00	4.40	0.35	0.14	0.01
1.85	0.13	0.01	0.00	4.45	0.36	0.14	0.01
1.90	0.14	0.02	0.00	4.50	0.36	0.15	0.01
1.95	0.14	0.02	0.00	4.55	0.37	0.15	0.01
2.00	0.15	0.02	0.00	4.60	0.37	0.16	0.01
2.05	0.15	0.02	0.01	4.65	0.38	0.16	0.01
2.10	0.15	0.02	0.01	4.70	0.38	0.16	0.01
2.15	0.16	0.02	0.01	4.75	0.39	0.17	0.01
2.20	0.16	0.02	0.01	4.80	0.39	0.17	0.01
2.25	0.17	0.03	0.01	4.85	0.40	0.17	0.01
2.30	0.17	0.03	0.01	4.90	0.40	0.18	0.01
2.35	0.17	0.03	0.01	4.95	0.41	0.18	0.01
2.40	0.18	0.03	0.01	5.00	0.41	0.18	0.01
2.45	0.18	0.03	0.01	5.05	0.42	0.19	0.01
2.50	0.19	0.04	0.01	5.10	0.42	0.19	0.01
2.55	0.19	0.04	0.01	5.15	0.42	0.20	0.01

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.43	0.20	0.01	7.80	0.74	0.47	0.02
5.25	0.43	0.20	0.01	7.85	0.75	0.47	0.02
5.30	0.44	0.21	0.01	7.90	0.76	0.48	0.02
5.35	0.44	0.21	0.01	7.95	0.77	0.49	0.02
5.40	0.45	0.22	0.01	8.00	0.77	0.50	0.02
5.45	0.45	0.22	0.01	8.05	0.78	0.50	0.02
5.50	0.46	0.22	0.01	8.10	0.79	0.51	0.02
5.55	0.46	0.23	0.01	8.15	0.80	0.52	0.02
5.60	0.47	0.23	0.01	8.20	0.80	0.52	0.03
5.65	0.48	0.24	0.01	8.25	0.81	0.53	0.03
5.70	0.48	0.24	0.01	8.30	0.82	0.54	0.03
5.75	0.49	0.24	0.01	8.35	0.83	0.55	0.03
5.80	0.49	0.25	0.01	8.40	0.84	0.55	0.03
5.85	0.50	0.25	0.01	8.45	0.85	0.56	0.03
5.90	0.50	0.26	0.01	8.50	0.85	0.57	0.03
5.95	0.51	0.26	0.01	8.55	0.86	0.58	0.03
6.00	0.51	0.27	0.01	8.60	0.87	0.59	0.03
6.05	0.52	0.27	0.02	8.65	0.88	0.59	0.03
6.10	0.52	0.28	0.02	8.70	0.89	0.60	0.03
6.15	0.53	0.28	0.02	8.75	0.90	0.61	0.03
6.20	0.53	0.28	0.02	8.80	0.91	0.62	0.03
6.25	0.54	0.29	0.02	8.85	0.91	0.63	0.03
6.30	0.54	0.29	0.02	8.90	0.92	0.63	0.03
6.35	0.55	0.30	0.02	8.95	0.93	0.64	0.03
6.40	0.56	0.30	0.02	9.00	0.94	0.65	0.03
6.45	0.56	0.31	0.02	9.05	0.95	0.66	0.03
6.50	0.57	0.31	0.02	9.10	0.96	0.67	0.03
6.55	0.57	0.32	0.02	9.15	0.97	0.68	0.03
6.60	0.58	0.32	0.02	9.20	0.98	0.69	0.03
6.65	0.58	0.33	0.02	9.25	0.99	0.70	0.03
6.70	0.59	0.33	0.02	9.30	1.00	0.71	0.03
6.75	0.60	0.34	0.02	9.35	1.01	0.72	0.03
6.80	0.60	0.34	0.02	9.40	1.02	0.73	0.04
6.85	0.61	0.35	0.02	9.45	1.04	0.74	0.04
6.90	0.62	0.36	0.02	9.50	1.05	0.75	0.04
6.95	0.62	0.36	0.02	9.55	1.06	0.76	0.04
7.00	0.63	0.37	0.02	9.60	1.07	0.77	0.04
7.05	0.64	0.37	0.02	9.65	1.08	0.78	0.04
7.10	0.64	0.38	0.02	9.70	1.10	0.80	0.04
7.15	0.65	0.38	0.02	9.75	1.11	0.81	0.04
7.20	0.66	0.39	0.02	9.80	1.12	0.82	0.04
7.25	0.66	0.40	0.02	9.85	1.13	0.83	0.04
7.30	0.67	0.40	0.02	9.90	1.15	0.85	0.04
7.35	0.68	0.41	0.02	9.95	1.16	0.86	0.04
7.40	0.68	0.42	0.02	10.00	1.18	0.87	0.05
7.45	0.69	0.42	0.02	10.05	1.19	0.89	0.05
7.50	0.70	0.43	0.02	10.10	1.20	0.90	0.05
7.55	0.70	0.43	0.02	10.15	1.22	0.91	0.05
7.60	0.71	0.44	0.02	10.20	1.23	0.93	0.05
7.65	0.72	0.45	0.02	10.25	1.25	0.94	0.05
7.70	0.73	0.45	0.02	10.30	1.27	0.96	0.05
7.75	0.73	0.46	0.02	10.35	1.28	0.97	0.05

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.30	0.99	0.05	13.00	4.90	4.55	0.10
10.45	1.31	1.00	0.05	13.05	4.93	4.57	0.09
10.50	1.33	1.02	0.05	13.10	4.95	4.60	0.09
10.55	1.35	1.04	0.06	13.15	4.98	4.62	0.08
10.60	1.37	1.05	0.06	13.20	5.00	4.65	0.08
10.65	1.39	1.07	0.06	13.25	5.02	4.67	0.08
10.70	1.41	1.09	0.07	13.30	5.04	4.69	0.08
10.75	1.43	1.11	0.07	13.35	5.06	4.71	0.07
10.80	1.45	1.13	0.07	13.40	5.08	4.73	0.07
10.85	1.47	1.16	0.08	13.45	5.10	4.75	0.06
10.90	1.50	1.18	0.08	13.50	5.12	4.77	0.06
10.95	1.52	1.21	0.08	13.55	5.14	4.78	0.06
11.00	1.55	1.23	0.08	13.60	5.15	4.80	0.06
11.05	1.58	1.26	0.09	13.65	5.17	4.82	0.05
11.10	1.61	1.29	0.10	13.70	5.18	4.83	0.05
11.15	1.64	1.32	0.10	13.75	5.20	4.85	0.05
11.20	1.67	1.35	0.11	13.80	5.22	4.86	0.05
11.25	1.71	1.38	0.12	13.85	5.23	4.88	0.05
11.30	1.74	1.42	0.12	13.90	5.25	4.89	0.05
11.35	1.78	1.46	0.13	13.95	5.26	4.91	0.05
11.40	1.82	1.50	0.13	14.00	5.27	4.92	0.05
11.45	1.86	1.54	0.14	14.05	5.29	4.93	0.05
11.50	1.91	1.58	0.14	14.10	5.30	4.95	0.05
11.55	1.97	1.64	0.19	14.15	5.32	4.96	0.05
11.60	2.04	1.71	0.21	14.20	5.33	4.97	0.05
11.65	2.11	1.77	0.23	14.25	5.34	4.99	0.04
11.70	2.17	1.84	0.23	14.30	5.35	5.00	0.04
11.75	2.27	1.93	0.29	14.35	5.37	5.01	0.04
11.80	2.36	2.03	0.31	14.40	5.38	5.03	0.04
11.85	2.49	2.16	0.39	14.45	5.39	5.04	0.04
11.90	2.62	2.29	0.43	14.50	5.40	5.05	0.04
11.95	2.85	2.51	0.64	14.55	5.41	5.06	0.04
12.00	3.07	2.73	0.74	14.60	5.43	5.07	0.04
12.05	3.45	3.11	1.08	14.65	5.44	5.08	0.04
12.10	3.83	3.48	**1.24**	14.70	5.45	5.09	0.04
12.15	3.96	3.61	0.75	14.75	5.46	5.10	0.04
12.20	4.09	3.74	0.52	14.80	5.47	5.11	0.04
12.25	4.18	3.83	0.38	14.85	5.48	5.12	0.03
12.30	4.28	3.93	0.33	14.90	5.49	5.13	0.03
12.35	4.34	3.99	0.27	14.95	5.50	5.14	0.03
12.40	4.41	4.06	0.24	15.00	5.51	5.15	0.03
12.45	4.48	4.13	0.23	15.05	5.52	5.16	0.03
12.50	4.54	4.19	0.22	15.10	5.53	5.17	0.03
12.55	4.59	4.23	0.17	15.15	5.54	5.18	0.03
12.60	4.63	4.28	0.15	15.20	5.54	5.19	0.03
12.65	4.67	4.32	0.14	15.25	5.55	5.20	0.03
12.70	4.71	4.36	0.14	15.30	5.56	5.21	0.03
12.75	4.74	4.39	0.13	15.35	5.57	5.22	0.03
12.80	4.78	4.43	0.12	15.40	5.58	5.22	0.03
12.85	4.81	4.46	0.12	15.45	5.59	5.23	0.03
12.90	4.84	4.49	0.11	15.50	5.60	5.24	0.03
12.95	4.87	4.52	0.10	15.55	5.60	5.25	0.03

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.61	5.26	0.03	18.20	5.96	5.60	0.02
15.65	5.62	5.27	0.03	18.25	5.96	5.61	0.02
15.70	5.63	5.27	0.03	18.30	5.97	5.61	0.02
15.75	5.64	5.28	0.03	18.35	5.97	5.62	0.02
15.80	5.65	5.29	0.03	18.40	5.98	5.62	0.02
15.85	5.65	5.30	0.03	18.45	5.99	5.63	0.02
15.90	5.66	5.31	0.03	18.50	5.99	5.63	0.02
15.95	5.67	5.31	0.03	18.55	6.00	5.64	0.02
16.00	5.68	5.32	0.03	18.60	6.00	5.64	0.02
16.05	5.68	5.33	0.03	18.65	6.01	5.65	0.02
16.10	5.69	5.34	0.03	18.70	6.01	5.65	0.02
16.15	5.70	5.35	0.03	18.75	6.02	5.66	0.02
16.20	5.71	5.35	0.03	18.80	6.02	5.66	0.02
16.25	5.72	5.36	0.03	18.85	6.03	5.67	0.02
16.30	5.72	5.37	0.03	18.90	6.03	5.67	0.02
16.35	5.73	5.38	0.03	18.95	6.03	5.68	0.02
16.40	5.74	5.38	0.03	19.00	6.04	5.68	0.02
16.45	5.75	5.39	0.02	19.05	6.04	5.69	0.02
16.50	5.75	5.40	0.02	19.10	6.05	5.69	0.02
16.55	5.76	5.40	0.02	19.15	6.05	5.70	0.02
16.60	5.77	5.41	0.02	19.20	6.06	5.70	0.02
16.65	5.77	5.42	0.02	19.25	6.06	5.71	0.02
16.70	5.78	5.43	0.02	19.30	6.07	5.71	0.02
16.75	5.79	5.43	0.02	19.35	6.07	5.72	0.02
16.80	5.79	5.44	0.02	19.40	6.08	5.72	0.02
16.85	5.80	5.45	0.02	19.45	6.08	5.73	0.02
16.90	5.81	5.45	0.02	19.50	6.09	5.73	0.02
16.95	5.81	5.46	0.02	19.55	6.09	5.74	0.02
17.00	5.82	5.47	0.02	19.60	6.10	5.74	0.02
17.05	5.83	5.47	0.02	19.65	6.10	5.75	0.02
17.10	5.83	5.48	0.02	19.70	6.11	5.75	0.02
17.15	5.84	5.48	0.02	19.75	6.11	5.76	0.02
17.20	5.85	5.49	0.02	19.80	6.12	5.76	0.02
17.25	5.85	5.50	0.02	19.85	6.12	5.76	0.02
17.30	5.86	5.50	0.02	19.90	6.13	5.77	0.02
17.35	5.87	5.51	0.02	19.95	6.13	5.77	0.02
17.40	5.87	5.52	0.02	20.00	6.13	5.78	0.02
17.45	5.88	5.52	0.02	20.05	6.14	5.78	0.02
17.50	5.88	5.53	0.02	20.10	6.14	5.79	0.02
17.55	5.89	5.53	0.02	20.15	6.15	5.79	0.02
17.60	5.89	5.54	0.02	20.20	6.15	5.80	0.02
17.65	5.90	5.54	0.02	20.25	6.16	5.80	0.02
17.70	5.91	5.55	0.02	20.30	6.16	5.81	0.02
17.75	5.91	5.56	0.02	20.35	6.17	5.81	0.02
17.80	5.92	5.56	0.02	20.40	6.17	5.81	0.02
17.85	5.92	5.57	0.02	20.45	6.17	5.82	0.02
17.90	5.93	5.57	0.02	20.50	6.18	5.82	0.02
17.95	5.93	5.58	0.02	20.55	6.18	5.83	0.02
18.00	5.94	5.58	0.02	20.60	6.19	5.83	0.02
18.05	5.94	5.59	0.02	20.65	6.19	5.84	0.01
18.10	5.95	5.59	0.02	20.70	6.20	5.84	0.01
18.15	5.95	5.60	0.02	20.75	6.20	5.84	0.01

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	6.21	5.85	0.01	23.40	6.41	6.05	0.01
20.85	6.21	5.85	0.01	23.45	6.41	6.05	0.01
20.90	6.21	5.86	0.01	23.50	6.41	6.06	0.01
20.95	6.22	5.86	0.01	23.55	6.42	6.06	0.01
21.00	6.22	5.87	0.01	23.60	6.42	6.06	0.01
21.05	6.23	5.87	0.01	23.65	6.42	6.07	0.01
21.10	6.23	5.87	0.01	23.70	6.43	6.07	0.01
21.15	6.24	5.88	0.01	23.75	6.43	6.07	0.01
21.20	6.24	5.88	0.01	23.80	6.44	6.08	0.01
21.25	6.24	5.89	0.01	23.85	6.44	6.08	0.01
21.30	6.25	5.89	0.01	23.90	6.44	6.08	0.01
21.35	6.25	5.90	0.01	23.95	6.45	6.09	0.01
21.40	6.26	5.90	0.01	24.00	**6.45**	**6.09**	0.01
21.45	6.26	5.90	0.01				
21.50	6.26	5.91	0.01				
21.55	6.27	5.91	0.01				
21.60	6.27	5.92	0.01				
21.65	6.28	5.92	0.01				
21.70	6.28	5.92	0.01				
21.75	6.28	5.93	0.01				
21.80	6.29	5.93	0.01				
21.85	6.29	5.94	0.01				
21.90	6.30	5.94	0.01				
21.95	6.30	5.94	0.01				
22.00	6.30	5.95	0.01				
22.05	6.31	5.95	0.01				
22.10	6.31	5.96	0.01				
22.15	6.32	5.96	0.01				
22.20	6.32	5.96	0.01				
22.25	6.32	5.97	0.01				
22.30	6.33	5.97	0.01				
22.35	6.33	5.97	0.01				
22.40	6.34	5.98	0.01				
22.45	6.34	5.98	0.01				
22.50	6.34	5.99	0.01				
22.55	6.35	5.99	0.01				
22.60	6.35	5.99	0.01				
22.65	6.35	6.00	0.01				
22.70	6.36	6.00	0.01				
22.75	6.36	6.00	0.01				
22.80	6.36	6.01	0.01				
22.85	6.37	6.01	0.01				
22.90	6.37	6.02	0.01				
22.95	6.38	6.02	0.01				
23.00	6.38	6.02	0.01				
23.05	6.38	6.03	0.01				
23.10	6.39	6.03	0.01				
23.15	6.39	6.03	0.01				
23.20	6.39	6.04	0.01				
23.25	6.40	6.04	0.01				
23.30	6.40	6.04	0.01				
23.35	6.40	6.05	0.01				

Summary for Subcatchment EDA4 PERV: EDA4 PERV

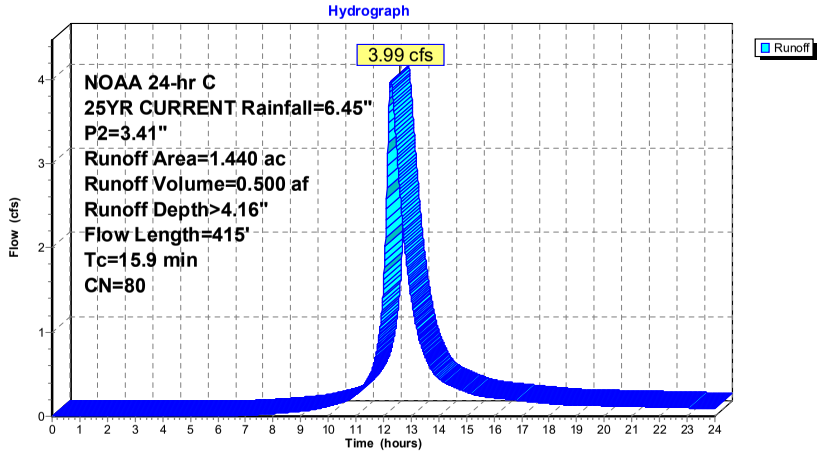
Runoff = 3.99 cfs @ 12.26 hrs, Volume= 0.500 af, Depth> 4.16"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR CURRENT Rainfall=6.45", P2=3.41"

Area (ac)	CN	Description
1.440	80	>75% Grass cover, Good, HSG D
1.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	100	0.0080	0.12		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
1.1	115	0.0140	1.77		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
0.5	100	0.0039	3.22	5.69	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.6	100	0.0020	2.79	8.77	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
15.9	415	Total			

Subcatchment EDA4 PERV: EDA4 PERV



Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.20	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.20	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.21	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.21	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.21	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.22	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.22	0.00	0.00
0.40	0.03	0.00	0.00	3.00	0.23	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.23	0.00	0.00
0.50	0.04	0.00	0.00	3.10	0.24	0.00	0.00
0.55	0.04	0.00	0.00	3.15	0.24	0.00	0.00
0.60	0.04	0.00	0.00	3.20	0.24	0.00	0.00
0.65	0.05	0.00	0.00	3.25	0.25	0.00	0.00
0.70	0.05	0.00	0.00	3.30	0.25	0.00	0.00
0.75	0.05	0.00	0.00	3.35	0.26	0.00	0.00
0.80	0.06	0.00	0.00	3.40	0.26	0.00	0.00
0.85	0.06	0.00	0.00	3.45	0.27	0.00	0.00
0.90	0.06	0.00	0.00	3.50	0.27	0.00	0.00
0.95	0.07	0.00	0.00	3.55	0.28	0.00	0.00
1.00	0.07	0.00	0.00	3.60	0.28	0.00	0.00
1.05	0.07	0.00	0.00	3.65	0.28	0.00	0.00
1.10	0.08	0.00	0.00	3.70	0.29	0.00	0.00
1.15	0.08	0.00	0.00	3.75	0.29	0.00	0.00
1.20	0.09	0.00	0.00	3.80	0.30	0.00	0.00
1.25	0.09	0.00	0.00	3.85	0.30	0.00	0.00
1.30	0.09	0.00	0.00	3.90	0.31	0.00	0.00
1.35	0.10	0.00	0.00	3.95	0.31	0.00	0.00
1.40	0.10	0.00	0.00	4.00	0.32	0.00	0.00
1.45	0.10	0.00	0.00	4.05	0.32	0.00	0.00
1.50	0.11	0.00	0.00	4.10	0.32	0.00	0.00
1.55	0.11	0.00	0.00	4.15	0.33	0.00	0.00
1.60	0.11	0.00	0.00	4.20	0.33	0.00	0.00
1.65	0.12	0.00	0.00	4.25	0.34	0.00	0.00
1.70	0.12	0.00	0.00	4.30	0.34	0.00	0.00
1.75	0.13	0.00	0.00	4.35	0.35	0.00	0.00
1.80	0.13	0.00	0.00	4.40	0.35	0.00	0.00
1.85	0.13	0.00	0.00	4.45	0.36	0.00	0.00
1.90	0.14	0.00	0.00	4.50	0.36	0.00	0.00
1.95	0.14	0.00	0.00	4.55	0.37	0.00	0.00
2.00	0.15	0.00	0.00	4.60	0.37	0.00	0.00
2.05	0.15	0.00	0.00	4.65	0.38	0.00	0.00
2.10	0.15	0.00	0.00	4.70	0.38	0.00	0.00
2.15	0.16	0.00	0.00	4.75	0.39	0.00	0.00
2.20	0.16	0.00	0.00	4.80	0.39	0.00	0.00
2.25	0.17	0.00	0.00	4.85	0.40	0.00	0.00
2.30	0.17	0.00	0.00	4.90	0.40	0.00	0.00
2.35	0.17	0.00	0.00	4.95	0.41	0.00	0.00
2.40	0.18	0.00	0.00	5.00	0.41	0.00	0.00
2.45	0.18	0.00	0.00	5.05	0.42	0.00	0.00
2.50	0.19	0.00	0.00	5.10	0.42	0.00	0.00
2.55	0.19	0.00	0.00	5.15	0.42	0.00	0.00

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.43	0.00	0.00	7.80	0.74	0.02	0.03
5.25	0.43	0.00	0.00	7.85	0.75	0.02	0.03
5.30	0.44	0.00	0.00	7.90	0.76	0.02	0.03
5.35	0.44	0.00	0.00	7.95	0.77	0.03	0.03
5.40	0.45	0.00	0.00	8.00	0.77	0.03	0.03
5.45	0.45	0.00	0.00	8.05	0.78	0.03	0.03
5.50	0.46	0.00	0.00	8.10	0.79	0.03	0.03
5.55	0.46	0.00	0.00	8.15	0.80	0.03	0.04
5.60	0.47	0.00	0.00	8.20	0.80	0.03	0.04
5.65	0.48	0.00	0.00	8.25	0.81	0.03	0.04
5.70	0.48	0.00	0.00	8.30	0.82	0.04	0.04
5.75	0.49	0.00	0.00	8.35	0.83	0.04	0.04
5.80	0.49	0.00	0.00	8.40	0.84	0.04	0.04
5.85	0.50	0.00	0.00	8.45	0.85	0.04	0.04
5.90	0.50	0.00	0.00	8.50	0.85	0.04	0.05
5.95	0.51	0.00	0.00	8.55	0.86	0.05	0.05
6.00	0.51	0.00	0.00	8.60	0.87	0.05	0.05
6.05	0.52	0.00	0.00	8.65	0.88	0.05	0.05
6.10	0.52	0.00	0.00	8.70	0.89	0.05	0.05
6.15	0.53	0.00	0.00	8.75	0.90	0.05	0.05
6.20	0.53	0.00	0.00	8.80	0.91	0.06	0.05
6.25	0.54	0.00	0.00	8.85	0.91	0.06	0.06
6.30	0.54	0.00	0.00	8.90	0.92	0.06	0.06
6.35	0.55	0.00	0.00	8.95	0.93	0.06	0.06
6.40	0.56	0.00	0.00	9.00	0.94	0.07	0.06
6.45	0.56	0.00	0.00	9.05	0.95	0.07	0.06
6.50	0.57	0.00	0.00	9.10	0.96	0.07	0.06
6.55	0.57	0.00	0.00	9.15	0.97	0.07	0.07
6.60	0.58	0.00	0.00	9.20	0.98	0.08	0.07
6.65	0.58	0.00	0.01	9.25	0.99	0.08	0.07
6.70	0.59	0.00	0.01	9.30	1.00	0.08	0.07
6.75	0.60	0.00	0.01	9.35	1.01	0.09	0.07
6.80	0.60	0.00	0.01	9.40	1.02	0.09	0.08
6.85	0.61	0.00	0.01	9.45	1.04	0.09	0.08
6.90	0.62	0.01	0.01	9.50	1.05	0.10	0.08
6.95	0.62	0.01	0.01	9.55	1.06	0.10	0.09
7.00	0.63	0.01	0.01	9.60	1.07	0.11	0.09
7.05	0.64	0.01	0.01	9.65	1.08	0.11	0.09
7.10	0.64	0.01	0.01	9.70	1.10	0.11	0.10
7.15	0.65	0.01	0.01	9.75	1.11	0.12	0.10
7.20	0.66	0.01	0.01	9.80	1.12	0.12	0.10
7.25	0.66	0.01	0.02	9.85	1.13	0.13	0.11
7.30	0.67	0.01	0.02	9.90	1.15	0.13	0.11
7.35	0.68	0.01	0.02	9.95	1.16	0.14	0.12
7.40	0.68	0.01	0.02	10.00	1.18	0.14	0.12
7.45	0.69	0.01	0.02	10.05	1.19	0.15	0.12
7.50	0.70	0.01	0.02	10.10	1.20	0.15	0.13
7.55	0.70	0.02	0.02	10.15	1.22	0.16	0.13
7.60	0.71	0.02	0.02	10.20	1.23	0.17	0.14
7.65	0.72	0.02	0.02	10.25	1.25	0.17	0.14
7.70	0.73	0.02	0.02	10.30	1.27	0.18	0.15
7.75	0.73	0.02	0.03	10.35	1.28	0.19	0.15

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.30	0.19	0.16	13.00	4.90	2.81	1.41
10.45	1.31	0.20	0.16	13.05	4.93	2.83	1.31
10.50	1.33	0.21	0.17	13.10	4.95	2.85	1.21
10.55	1.35	0.21	0.17	13.15	4.98	2.87	1.12
10.60	1.37	0.22	0.18	13.20	5.00	2.89	1.04
10.65	1.39	0.23	0.18	13.25	5.02	2.91	0.97
10.70	1.41	0.24	0.19	13.30	5.04	2.93	0.90
10.75	1.43	0.25	0.20	13.35	5.06	2.95	0.85
10.80	1.45	0.26	0.21	13.40	5.08	2.97	0.80
10.85	1.47	0.27	0.22	13.45	5.10	2.98	0.75
10.90	1.50	0.28	0.23	13.50	5.12	3.00	0.71
10.95	1.52	0.30	0.25	13.55	5.14	3.01	0.67
11.00	1.55	0.31	0.26	13.60	5.15	3.03	0.64
11.05	1.58	0.32	0.28	13.65	5.17	3.04	0.61
11.10	1.61	0.34	0.29	13.70	5.18	3.05	0.57
11.15	1.64	0.36	0.31	13.75	5.20	3.07	0.54
11.20	1.67	0.37	0.33	13.80	5.22	3.08	0.52
11.25	1.71	0.39	0.35	13.85	5.23	3.09	0.50
11.30	1.74	0.41	0.37	13.90	5.25	3.11	0.48
11.35	1.78	0.43	0.40	13.95	5.26	3.12	0.46
11.40	1.82	0.46	0.43	14.00	5.27	3.13	0.45
11.45	1.86	0.48	0.46	14.05	5.29	3.15	0.43
11.50	1.91	0.51	0.49	14.10	5.30	3.16	0.42
11.55	1.97	0.55	0.52	14.15	5.32	3.17	0.41
11.60	2.04	0.58	0.56	14.20	5.33	3.18	0.40
11.65	2.11	0.63	0.62	14.25	5.34	3.19	0.39
11.70	2.17	0.67	0.70	14.30	5.35	3.20	0.38
11.75	2.27	0.73	0.78	14.35	5.37	3.22	0.38
11.80	2.36	0.79	0.87	14.40	5.38	3.23	0.37
11.85	2.49	0.88	0.98	14.45	5.39	3.24	0.36
11.90	2.62	0.98	1.12	14.50	5.40	3.25	0.35
11.95	2.85	1.14	1.30	14.55	5.41	3.26	0.35
12.00	3.07	1.31	1.56	14.60	5.43	3.27	0.34
12.05	3.45	1.60	1.93	14.65	5.44	3.28	0.33
12.10	3.83	1.90	2.46	14.70	5.45	3.29	0.33
12.15	3.96	2.01	3.11	14.75	5.46	3.30	0.32
12.20	4.09	2.11	3.69	14.80	5.47	3.31	0.31
12.25	4.18	2.19	**3.96**	14.85	5.48	3.31	0.31
12.30	4.28	2.27	**3.93**	14.90	5.49	3.32	0.30
12.35	4.34	2.33	3.74	14.95	5.50	3.33	0.30
12.40	4.41	2.39	3.53	15.00	5.51	3.34	0.29
12.45	4.48	2.44	3.29	15.05	5.52	3.35	0.28
12.50	4.54	2.50	3.06	15.10	5.53	3.36	0.28
12.55	4.59	2.54	2.85	15.15	5.54	3.36	0.27
12.60	4.63	2.57	2.66	15.20	5.54	3.37	0.27
12.65	4.67	2.61	2.46	15.25	5.55	3.38	0.26
12.70	4.71	2.64	2.26	15.30	5.56	3.39	0.26
12.75	4.74	2.67	2.07	15.35	5.57	3.40	0.25
12.80	4.78	2.70	1.91	15.40	5.58	3.40	0.25
12.85	4.81	2.73	1.77	15.45	5.59	3.41	0.24
12.90	4.84	2.76	1.64	15.50	5.60	3.42	0.24
12.95	4.87	2.78	1.52	15.55	5.60	3.43	0.24

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.61	3.43	0.23	18.20	5.96	3.74	0.14
15.65	5.62	3.44	0.23	18.25	5.96	3.75	0.14
15.70	5.63	3.45	0.23	18.30	5.97	3.75	0.14
15.75	5.64	3.46	0.23	18.35	5.97	3.76	0.14
15.80	5.65	3.46	0.23	18.40	5.98	3.76	0.14
15.85	5.65	3.47	0.22	18.45	5.99	3.77	0.14
15.90	5.66	3.48	0.22	18.50	5.99	3.77	0.14
15.95	5.67	3.48	0.22	18.55	6.00	3.78	0.14
16.00	5.68	3.49	0.22	18.60	6.00	3.78	0.14
16.05	5.68	3.50	0.22	18.65	6.01	3.79	0.14
16.10	5.69	3.51	0.21	18.70	6.01	3.79	0.13
16.15	5.70	3.51	0.21	18.75	6.02	3.79	0.13
16.20	5.71	3.52	0.21	18.80	6.02	3.80	0.13
16.25	5.72	3.53	0.21	18.85	6.03	3.80	0.13
16.30	5.72	3.53	0.21	18.90	6.03	3.81	0.13
16.35	5.73	3.54	0.21	18.95	6.03	3.81	0.13
16.40	5.74	3.55	0.20	19.00	6.04	3.82	0.13
16.45	5.75	3.55	0.20	19.05	6.04	3.82	0.13
16.50	5.75	3.56	0.20	19.10	6.05	3.83	0.13
16.55	5.76	3.56	0.20	19.15	6.05	3.83	0.13
16.60	5.77	3.57	0.20	19.20	6.06	3.83	0.13
16.65	5.77	3.58	0.20	19.25	6.06	3.84	0.13
16.70	5.78	3.58	0.19	19.30	6.07	3.84	0.13
16.75	5.79	3.59	0.19	19.35	6.07	3.85	0.13
16.80	5.79	3.60	0.19	19.40	6.08	3.85	0.13
16.85	5.80	3.60	0.19	19.45	6.08	3.86	0.13
16.90	5.81	3.61	0.19	19.50	6.09	3.86	0.13
16.95	5.81	3.61	0.19	19.55	6.09	3.86	0.13
17.00	5.82	3.62	0.18	19.60	6.10	3.87	0.13
17.05	5.83	3.63	0.18	19.65	6.10	3.87	0.13
17.10	5.83	3.63	0.18	19.70	6.11	3.88	0.13
17.15	5.84	3.64	0.18	19.75	6.11	3.88	0.13
17.20	5.85	3.64	0.18	19.80	6.12	3.89	0.12
17.25	5.85	3.65	0.18	19.85	6.12	3.89	0.12
17.30	5.86	3.65	0.17	19.90	6.13	3.89	0.12
17.35	5.87	3.66	0.17	19.95	6.13	3.90	0.12
17.40	5.87	3.67	0.17	20.00	6.13	3.90	0.12
17.45	5.88	3.67	0.17	20.05	6.14	3.91	0.12
17.50	5.88	3.68	0.17	20.10	6.14	3.91	0.12
17.55	5.89	3.68	0.17	20.15	6.15	3.92	0.12
17.60	5.89	3.69	0.16	20.20	6.15	3.92	0.12
17.65	5.90	3.69	0.16	20.25	6.16	3.92	0.12
17.70	5.91	3.70	0.16	20.30	6.16	3.93	0.12
17.75	5.91	3.70	0.16	20.35	6.17	3.93	0.12
17.80	5.92	3.71	0.16	20.40	6.17	3.94	0.12
17.85	5.92	3.71	0.16	20.45	6.17	3.94	0.12
17.90	5.93	3.72	0.15	20.50	6.18	3.94	0.12
17.95	5.93	3.72	0.15	20.55	6.18	3.95	0.12
18.00	5.94	3.73	0.15	20.60	6.19	3.95	0.12
18.05	5.94	3.73	0.15	20.65	6.19	3.96	0.12
18.10	5.95	3.74	0.15	20.70	6.20	3.96	0.12
18.15	5.95	3.74	0.15	20.75	6.20	3.96	0.12

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

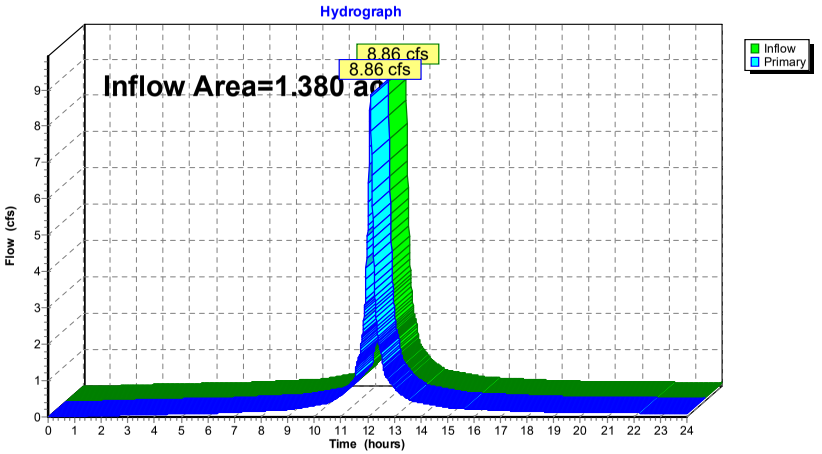
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	6.21	3.97	0.12	23.40	6.41	4.15	0.10
20.85	6.21	3.97	0.12	23.45	6.41	4.15	0.09
20.90	6.21	3.97	0.12	23.50	6.41	4.16	0.09
20.95	6.22	3.98	0.12	23.55	6.42	4.16	0.09
21.00	6.22	3.98	0.12	23.60	6.42	4.16	0.09
21.05	6.23	3.99	0.11	23.65	6.42	4.17	0.09
21.10	6.23	3.99	0.11	23.70	6.43	4.17	0.09
21.15	6.24	3.99	0.11	23.75	6.43	4.17	0.09
21.20	6.24	4.00	0.11	23.80	6.44	4.18	0.09
21.25	6.24	4.00	0.11	23.85	6.44	4.18	0.09
21.30	6.25	4.01	0.11	23.90	6.44	4.18	0.09
21.35	6.25	4.01	0.11	23.95	6.45	4.19	0.09
21.40	6.26	4.01	0.11	24.00	**6.45**	**4.19**	0.09
21.45	6.26	4.02	0.11				
21.50	6.26	4.02	0.11				
21.55	6.27	4.02	0.11				
21.60	6.27	4.03	0.11				
21.65	6.28	4.03	0.11				
21.70	6.28	4.04	0.11				
21.75	6.28	4.04	0.11				
21.80	6.29	4.04	0.11				
21.85	6.29	4.05	0.11				
21.90	6.30	4.05	0.11				
21.95	6.30	4.05	0.11				
22.00	6.30	4.06	0.11				
22.05	6.31	4.06	0.11				
22.10	6.31	4.06	0.11				
22.15	6.32	4.07	0.11				
22.20	6.32	4.07	0.11				
22.25	6.32	4.07	0.10				
22.30	6.33	4.08	0.10				
22.35	6.33	4.08	0.10				
22.40	6.34	4.08	0.10				
22.45	6.34	4.09	0.10				
22.50	6.34	4.09	0.10				
22.55	6.35	4.10	0.10				
22.60	6.35	4.10	0.10				
22.65	6.35	4.10	0.10				
22.70	6.36	4.11	0.10				
22.75	6.36	4.11	0.10				
22.80	6.36	4.11	0.10				
22.85	6.37	4.12	0.10				
22.90	6.37	4.12	0.10				
22.95	6.38	4.12	0.10				
23.00	6.38	4.13	0.10				
23.05	6.38	4.13	0.10				
23.10	6.39	4.13	0.10				
23.15	6.39	4.14	0.10				
23.20	6.39	4.14	0.10				
23.25	6.40	4.14	0.10				
23.30	6.40	4.14	0.10				
23.35	6.40	4.15	0.10				

Summary for Link E1A: E1A

Inflow Area = 1.380 ac, 54.35% Impervious, Inflow Depth > 5.70" for 25YR CURRENT event
Inflow = 8.86 cfs @ 12.11 hrs, Volume= 0.656 af
Primary = 8.86 cfs @ 12.11 hrs, Volume= 0.656 af, Atten= 0%, Lag= 0.0 min
Routed to Link EPOI-1 : EPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link E1A: E1A



Hydrograph for Link E1A: E1A

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.04	0.00	0.04
0.05	0.00	0.00	0.00	2.65	0.05	0.00	0.05
0.10	0.00	0.00	0.00	2.70	0.05	0.00	0.05
0.15	0.00	0.00	0.00	2.75	0.05	0.00	0.05
0.20	0.00	0.00	0.00	2.80	0.05	0.00	0.05
0.25	0.00	0.00	0.00	2.85	0.05	0.00	0.05
0.30	0.00	0.00	0.00	2.90	0.05	0.00	0.05
0.35	0.00	0.00	0.00	2.95	0.05	0.00	0.05
0.40	0.00	0.00	0.00	3.00	0.05	0.00	0.05
0.45	0.00	0.00	0.00	3.05	0.05	0.00	0.05
0.50	0.00	0.00	0.00	3.10	0.05	0.00	0.05
0.55	0.00	0.00	0.00	3.15	0.06	0.00	0.06
0.60	0.00	0.00	0.00	3.20	0.06	0.00	0.06
0.65	0.00	0.00	0.00	3.25	0.06	0.00	0.06
0.70	0.00	0.00	0.00	3.30	0.06	0.00	0.06
0.75	0.00	0.00	0.00	3.35	0.06	0.00	0.06
0.80	0.00	0.00	0.00	3.40	0.06	0.00	0.06
0.85	0.00	0.00	0.00	3.45	0.06	0.00	0.06
0.90	0.00	0.00	0.00	3.50	0.06	0.00	0.06
0.95	0.00	0.00	0.00	3.55	0.06	0.00	0.06
1.00	0.00	0.00	0.00	3.60	0.06	0.00	0.06
1.05	0.00	0.00	0.00	3.65	0.06	0.00	0.06
1.10	0.00	0.00	0.00	3.70	0.06	0.00	0.06
1.15	0.01	0.00	0.01	3.75	0.07	0.00	0.07
1.20	0.01	0.00	0.01	3.80	0.07	0.00	0.07
1.25	0.01	0.00	0.01	3.85	0.07	0.00	0.07
1.30	0.01	0.00	0.01	3.90	0.07	0.00	0.07
1.35	0.01	0.00	0.01	3.95	0.07	0.00	0.07
1.40	0.01	0.00	0.01	4.00	0.07	0.00	0.07
1.45	0.02	0.00	0.02	4.05	0.07	0.00	0.07
1.50	0.02	0.00	0.02	4.10	0.07	0.00	0.07
1.55	0.02	0.00	0.02	4.15	0.07	0.00	0.07
1.60	0.02	0.00	0.02	4.20	0.07	0.00	0.07
1.65	0.02	0.00	0.02	4.25	0.07	0.00	0.07
1.70	0.02	0.00	0.02	4.30	0.07	0.00	0.07
1.75	0.02	0.00	0.02	4.35	0.07	0.00	0.07
1.80	0.03	0.00	0.03	4.40	0.08	0.00	0.08
1.85	0.03	0.00	0.03	4.45	0.08	0.00	0.08
1.90	0.03	0.00	0.03	4.50	0.08	0.00	0.08
1.95	0.03	0.00	0.03	4.55	0.08	0.00	0.08
2.00	0.03	0.00	0.03	4.60	0.08	0.00	0.08
2.05	0.03	0.00	0.03	4.65	0.08	0.00	0.08
2.10	0.03	0.00	0.03	4.70	0.08	0.00	0.08
2.15	0.03	0.00	0.03	4.75	0.08	0.00	0.08
2.20	0.04	0.00	0.04	4.80	0.08	0.00	0.08
2.25	0.04	0.00	0.04	4.85	0.08	0.00	0.08
2.30	0.04	0.00	0.04	4.90	0.08	0.00	0.08
2.35	0.04	0.00	0.04	4.95	0.08	0.00	0.08
2.40	0.04	0.00	0.04	5.00	0.08	0.00	0.08
2.45	0.04	0.00	0.04	5.05	0.08	0.00	0.08
2.50	0.04	0.00	0.04	5.10	0.08	0.00	0.08
2.55	0.04	0.00	0.04	5.15	0.09	0.00	0.09

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.09	0.00	0.09	7.80	0.16	0.00	0.16
5.25	0.09	0.00	0.09	7.85	0.16	0.00	0.16
5.30	0.09	0.00	0.09	7.90	0.16	0.00	0.16
5.35	0.09	0.00	0.09	7.95	0.16	0.00	0.16
5.40	0.09	0.00	0.09	8.00	0.16	0.00	0.16
5.45	0.09	0.00	0.09	8.05	0.16	0.00	0.16
5.50	0.09	0.00	0.09	8.10	0.17	0.00	0.17
5.55	0.09	0.00	0.09	8.15	0.17	0.00	0.17
5.60	0.09	0.00	0.09	8.20	0.17	0.00	0.17
5.65	0.09	0.00	0.09	8.25	0.17	0.00	0.17
5.70	0.09	0.00	0.09	8.30	0.17	0.00	0.17
5.75	0.09	0.00	0.09	8.35	0.18	0.00	0.18
5.80	0.09	0.00	0.09	8.40	0.18	0.00	0.18
5.85	0.09	0.00	0.09	8.45	0.18	0.00	0.18
5.90	0.09	0.00	0.09	8.50	0.18	0.00	0.18
5.95	0.09	0.00	0.09	8.55	0.18	0.00	0.18
6.00	0.10	0.00	0.10	8.60	0.18	0.00	0.18
6.05	0.10	0.00	0.10	8.65	0.19	0.00	0.19
6.10	0.10	0.00	0.10	8.70	0.19	0.00	0.19
6.15	0.10	0.00	0.10	8.75	0.19	0.00	0.19
6.20	0.10	0.00	0.10	8.80	0.19	0.00	0.19
6.25	0.10	0.00	0.10	8.85	0.19	0.00	0.19
6.30	0.10	0.00	0.10	8.90	0.20	0.00	0.20
6.35	0.11	0.00	0.11	8.95	0.20	0.00	0.20
6.40	0.11	0.00	0.11	9.00	0.20	0.00	0.20
6.45	0.11	0.00	0.11	9.05	0.20	0.00	0.20
6.50	0.11	0.00	0.11	9.10	0.21	0.00	0.21
6.55	0.11	0.00	0.11	9.15	0.21	0.00	0.21
6.60	0.11	0.00	0.11	9.20	0.22	0.00	0.22
6.65	0.12	0.00	0.12	9.25	0.23	0.00	0.23
6.70	0.12	0.00	0.12	9.30	0.23	0.00	0.23
6.75	0.12	0.00	0.12	9.35	0.24	0.00	0.24
6.80	0.12	0.00	0.12	9.40	0.24	0.00	0.24
6.85	0.12	0.00	0.12	9.45	0.25	0.00	0.25
6.90	0.12	0.00	0.12	9.50	0.26	0.00	0.26
6.95	0.13	0.00	0.13	9.55	0.26	0.00	0.26
7.00	0.13	0.00	0.13	9.60	0.27	0.00	0.27
7.05	0.13	0.00	0.13	9.65	0.28	0.00	0.28
7.10	0.13	0.00	0.13	9.70	0.28	0.00	0.28
7.15	0.13	0.00	0.13	9.75	0.29	0.00	0.29
7.20	0.13	0.00	0.13	9.80	0.29	0.00	0.29
7.25	0.14	0.00	0.14	9.85	0.30	0.00	0.30
7.30	0.14	0.00	0.14	9.90	0.31	0.00	0.31
7.35	0.14	0.00	0.14	9.95	0.31	0.00	0.31
7.40	0.14	0.00	0.14	10.00	0.32	0.00	0.32
7.45	0.14	0.00	0.14	10.05	0.32	0.00	0.32
7.50	0.15	0.00	0.15	10.10	0.33	0.00	0.33
7.55	0.15	0.00	0.15	10.15	0.34	0.00	0.34
7.60	0.15	0.00	0.15	10.20	0.34	0.00	0.34
7.65	0.15	0.00	0.15	10.25	0.35	0.00	0.35
7.70	0.15	0.00	0.15	10.30	0.36	0.00	0.36
7.75	0.15	0.00	0.15	10.35	0.36	0.00	0.36

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.37	0.00	0.37	13.00	0.81	0.00	0.81
10.45	0.38	0.00	0.38	13.05	0.76	0.00	0.76
10.50	0.38	0.00	0.38	13.10	0.72	0.00	0.72
10.55	0.40	0.00	0.40	13.15	0.69	0.00	0.69
10.60	0.42	0.00	0.42	13.20	0.66	0.00	0.66
10.65	0.44	0.00	0.44	13.25	0.63	0.00	0.63
10.70	0.46	0.00	0.46	13.30	0.61	0.00	0.61
10.75	0.49	0.00	0.49	13.35	0.58	0.00	0.58
10.80	0.51	0.00	0.51	13.40	0.56	0.00	0.56
10.85	0.54	0.00	0.54	13.45	0.53	0.00	0.53
10.90	0.56	0.00	0.56	13.50	0.51	0.00	0.51
10.95	0.58	0.00	0.58	13.55	0.48	0.00	0.48
11.00	0.61	0.00	0.61	13.60	0.46	0.00	0.46
11.05	0.65	0.00	0.65	13.65	0.44	0.00	0.44
11.10	0.68	0.00	0.68	13.70	0.43	0.00	0.43
11.15	0.73	0.00	0.73	13.75	0.43	0.00	0.43
11.20	0.77	0.00	0.77	13.80	0.42	0.00	0.42
11.25	0.82	0.00	0.82	13.85	0.41	0.00	0.41
11.30	0.86	0.00	0.86	13.90	0.41	0.00	0.41
11.35	0.91	0.00	0.91	13.95	0.40	0.00	0.40
11.40	0.95	0.00	0.95	14.00	0.39	0.00	0.39
11.45	0.99	0.00	0.99	14.05	0.39	0.00	0.39
11.50	1.03	0.00	1.03	14.10	0.38	0.00	0.38
11.55	1.24	0.00	1.24	14.15	0.37	0.00	0.37
11.60	1.47	0.00	1.47	14.20	0.37	0.00	0.37
11.65	1.60	0.00	1.60	14.25	0.36	0.00	0.36
11.70	1.69	0.00	1.69	14.30	0.35	0.00	0.35
11.75	1.95	0.00	1.95	14.35	0.35	0.00	0.35
11.80	2.21	0.00	2.21	14.40	0.34	0.00	0.34
11.85	2.65	0.00	2.65	14.45	0.33	0.00	0.33
11.90	3.06	0.00	3.06	14.50	0.33	0.00	0.33
11.95	4.11	0.00	4.11	14.55	0.32	0.00	0.32
12.00	5.12	0.00	5.12	14.60	0.32	0.00	0.32
12.05	6.97	0.00	6.97	14.65	0.31	0.00	0.31
12.10	**8.68**	0.00	**8.68**	14.70	0.30	0.00	0.30
12.15	**7.22**	0.00	**7.22**	14.75	0.29	0.00	0.29
12.20	5.16	0.00	5.16	14.80	0.29	0.00	0.29
12.25	3.88	0.00	3.88	14.85	0.28	0.00	0.28
12.30	3.07	0.00	3.07	14.90	0.28	0.00	0.28
12.35	2.49	0.00	2.49	14.95	0.27	0.00	0.27
12.40	2.11	0.00	2.11	15.00	0.26	0.00	0.26
12.45	1.91	0.00	1.91	15.05	0.26	0.00	0.26
12.50	1.81	0.00	1.81	15.10	0.25	0.00	0.25
12.55	1.56	0.00	1.56	15.15	0.25	0.00	0.25
12.60	1.32	0.00	1.32	15.20	0.24	0.00	0.24
12.65	1.18	0.00	1.18	15.25	0.24	0.00	0.24
12.70	1.11	0.00	1.11	15.30	0.24	0.00	0.24
12.75	1.05	0.00	1.05	15.35	0.24	0.00	0.24
12.80	1.00	0.00	1.00	15.40	0.24	0.00	0.24
12.85	0.95	0.00	0.95	15.45	0.23	0.00	0.23
12.90	0.91	0.00	0.91	15.50	0.23	0.00	0.23
12.95	0.86	0.00	0.86	15.55	0.23	0.00	0.23

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.23	0.00	0.23	18.20	0.14	0.00	0.14
15.65	0.23	0.00	0.23	18.25	0.14	0.00	0.14
15.70	0.23	0.00	0.23	18.30	0.14	0.00	0.14
15.75	0.22	0.00	0.22	18.35	0.14	0.00	0.14
15.80	0.22	0.00	0.22	18.40	0.14	0.00	0.14
15.85	0.22	0.00	0.22	18.45	0.14	0.00	0.14
15.90	0.22	0.00	0.22	18.50	0.14	0.00	0.14
15.95	0.22	0.00	0.22	18.55	0.14	0.00	0.14
16.00	0.22	0.00	0.22	18.60	0.14	0.00	0.14
16.05	0.21	0.00	0.21	18.65	0.14	0.00	0.14
16.10	0.21	0.00	0.21	18.70	0.14	0.00	0.14
16.15	0.21	0.00	0.21	18.75	0.14	0.00	0.14
16.20	0.21	0.00	0.21	18.80	0.14	0.00	0.14
16.25	0.21	0.00	0.21	18.85	0.14	0.00	0.14
16.30	0.20	0.00	0.20	18.90	0.13	0.00	0.13
16.35	0.20	0.00	0.20	18.95	0.13	0.00	0.13
16.40	0.20	0.00	0.20	19.00	0.13	0.00	0.13
16.45	0.20	0.00	0.20	19.05	0.13	0.00	0.13
16.50	0.20	0.00	0.20	19.10	0.13	0.00	0.13
16.55	0.20	0.00	0.20	19.15	0.13	0.00	0.13
16.60	0.19	0.00	0.19	19.20	0.13	0.00	0.13
16.65	0.19	0.00	0.19	19.25	0.13	0.00	0.13
16.70	0.19	0.00	0.19	19.30	0.13	0.00	0.13
16.75	0.19	0.00	0.19	19.35	0.13	0.00	0.13
16.80	0.19	0.00	0.19	19.40	0.13	0.00	0.13
16.85	0.19	0.00	0.19	19.45	0.13	0.00	0.13
16.90	0.18	0.00	0.18	19.50	0.13	0.00	0.13
16.95	0.18	0.00	0.18	19.55	0.13	0.00	0.13
17.00	0.18	0.00	0.18	19.60	0.13	0.00	0.13
17.05	0.18	0.00	0.18	19.65	0.13	0.00	0.13
17.10	0.18	0.00	0.18	19.70	0.13	0.00	0.13
17.15	0.18	0.00	0.18	19.75	0.13	0.00	0.13
17.20	0.17	0.00	0.17	19.80	0.13	0.00	0.13
17.25	0.17	0.00	0.17	19.85	0.13	0.00	0.13
17.30	0.17	0.00	0.17	19.90	0.13	0.00	0.13
17.35	0.17	0.00	0.17	19.95	0.13	0.00	0.13
17.40	0.17	0.00	0.17	20.00	0.13	0.00	0.13
17.45	0.16	0.00	0.16	20.05	0.12	0.00	0.12
17.50	0.16	0.00	0.16	20.10	0.12	0.00	0.12
17.55	0.16	0.00	0.16	20.15	0.12	0.00	0.12
17.60	0.16	0.00	0.16	20.20	0.12	0.00	0.12
17.65	0.16	0.00	0.16	20.25	0.12	0.00	0.12
17.70	0.16	0.00	0.16	20.30	0.12	0.00	0.12
17.75	0.15	0.00	0.15	20.35	0.12	0.00	0.12
17.80	0.15	0.00	0.15	20.40	0.12	0.00	0.12
17.85	0.15	0.00	0.15	20.45	0.12	0.00	0.12
17.90	0.15	0.00	0.15	20.50	0.12	0.00	0.12
17.95	0.15	0.00	0.15	20.55	0.12	0.00	0.12
18.00	0.15	0.00	0.15	20.60	0.12	0.00	0.12
18.05	0.14	0.00	0.14	20.65	0.12	0.00	0.12
18.10	0.14	0.00	0.14	20.70	0.12	0.00	0.12
18.15	0.14	0.00	0.14	20.75	0.12	0.00	0.12

Hydrograph for Link E1A: E1A (continued)

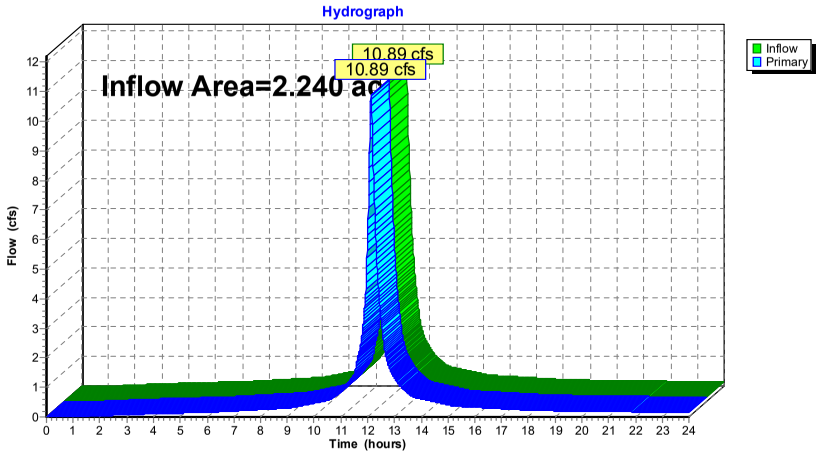
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.12	0.00	0.12	23.40	0.10	0.00	0.10
20.85	0.12	0.00	0.12	23.45	0.10	0.00	0.10
20.90	0.12	0.00	0.12	23.50	0.09	0.00	0.09
20.95	0.12	0.00	0.12	23.55	0.09	0.00	0.09
21.00	0.12	0.00	0.12	23.60	0.09	0.00	0.09
21.05	0.12	0.00	0.12	23.65	0.09	0.00	0.09
21.10	0.12	0.00	0.12	23.70	0.09	0.00	0.09
21.15	0.11	0.00	0.11	23.75	0.09	0.00	0.09
21.20	0.11	0.00	0.11	23.80	0.09	0.00	0.09
21.25	0.11	0.00	0.11	23.85	0.09	0.00	0.09
21.30	0.11	0.00	0.11	23.90	0.09	0.00	0.09
21.35	0.11	0.00	0.11	23.95	0.10	0.00	0.10
21.40	0.11	0.00	0.11	24.00	0.11	0.00	0.11
21.45	0.11	0.00	0.11				
21.50	0.11	0.00	0.11				
21.55	0.11	0.00	0.11				
21.60	0.11	0.00	0.11				
21.65	0.11	0.00	0.11				
21.70	0.11	0.00	0.11				
21.75	0.11	0.00	0.11				
21.80	0.11	0.00	0.11				
21.85	0.11	0.00	0.11				
21.90	0.11	0.00	0.11				
21.95	0.11	0.00	0.11				
22.00	0.11	0.00	0.11				
22.05	0.11	0.00	0.11				
22.10	0.11	0.00	0.11				
22.15	0.11	0.00	0.11				
22.20	0.11	0.00	0.11				
22.25	0.11	0.00	0.11				
22.30	0.11	0.00	0.11				
22.35	0.10	0.00	0.10				
22.40	0.10	0.00	0.10				
22.45	0.10	0.00	0.10				
22.50	0.10	0.00	0.10				
22.55	0.10	0.00	0.10				
22.60	0.10	0.00	0.10				
22.65	0.10	0.00	0.10				
22.70	0.10	0.00	0.10				
22.75	0.10	0.00	0.10				
22.80	0.10	0.00	0.10				
22.85	0.10	0.00	0.10				
22.90	0.10	0.00	0.10				
22.95	0.10	0.00	0.10				
23.00	0.10	0.00	0.10				
23.05	0.10	0.00	0.10				
23.10	0.10	0.00	0.10				
23.15	0.10	0.00	0.10				
23.20	0.10	0.00	0.10				
23.25	0.10	0.00	0.10				
23.30	0.10	0.00	0.10				
23.35	0.10	0.00	0.10				

Summary for Link E1B: E1B

Inflow Area = 2.240 ac, 27.23% Impervious, Inflow Depth > 5.26" for 25YR CURRENT event
Inflow = 10.89 cfs @ 12.12 hrs, Volume= 0.982 af
Primary = 10.89 cfs @ 12.12 hrs, Volume= 0.982 af, Atten= 0%, Lag= 0.0 min
Routed to Link EPOI-1 : EPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link E1B: E1B



Hydrograph for Link E1B: E1B

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.06	0.00	0.06
0.05	0.00	0.00	0.00	2.65	0.06	0.00	0.06
0.10	0.00	0.00	0.00	2.70	0.06	0.00	0.06
0.15	0.00	0.00	0.00	2.75	0.07	0.00	0.07
0.20	0.00	0.00	0.00	2.80	0.07	0.00	0.07
0.25	0.00	0.00	0.00	2.85	0.07	0.00	0.07
0.30	0.00	0.00	0.00	2.90	0.07	0.00	0.07
0.35	0.00	0.00	0.00	2.95	0.07	0.00	0.07
0.40	0.00	0.00	0.00	3.00	0.07	0.00	0.07
0.45	0.00	0.00	0.00	3.05	0.08	0.00	0.08
0.50	0.00	0.00	0.00	3.10	0.08	0.00	0.08
0.55	0.00	0.00	0.00	3.15	0.08	0.00	0.08
0.60	0.00	0.00	0.00	3.20	0.08	0.00	0.08
0.65	0.00	0.00	0.00	3.25	0.08	0.00	0.08
0.70	0.00	0.00	0.00	3.30	0.08	0.00	0.08
0.75	0.00	0.00	0.00	3.35	0.08	0.00	0.08
0.80	0.00	0.00	0.00	3.40	0.09	0.00	0.09
0.85	0.00	0.00	0.00	3.45	0.09	0.00	0.09
0.90	0.00	0.00	0.00	3.50	0.09	0.00	0.09
0.95	0.00	0.00	0.00	3.55	0.09	0.00	0.09
1.00	0.00	0.00	0.00	3.60	0.09	0.00	0.09
1.05	0.01	0.00	0.01	3.65	0.09	0.00	0.09
1.10	0.01	0.00	0.01	3.70	0.10	0.00	0.10
1.15	0.01	0.00	0.01	3.75	0.10	0.00	0.10
1.20	0.01	0.00	0.01	3.80	0.10	0.00	0.10
1.25	0.01	0.00	0.01	3.85	0.10	0.00	0.10
1.30	0.01	0.00	0.01	3.90	0.10	0.00	0.10
1.35	0.01	0.00	0.01	3.95	0.10	0.00	0.10
1.40	0.01	0.00	0.01	4.00	0.10	0.00	0.10
1.45	0.01	0.00	0.01	4.05	0.10	0.00	0.10
1.50	0.02	0.00	0.02	4.10	0.11	0.00	0.11
1.55	0.02	0.00	0.02	4.15	0.11	0.00	0.11
1.60	0.02	0.00	0.02	4.20	0.11	0.00	0.11
1.65	0.02	0.00	0.02	4.25	0.11	0.00	0.11
1.70	0.03	0.00	0.03	4.30	0.11	0.00	0.11
1.75	0.03	0.00	0.03	4.35	0.11	0.00	0.11
1.80	0.03	0.00	0.03	4.40	0.11	0.00	0.11
1.85	0.03	0.00	0.03	4.45	0.12	0.00	0.12
1.90	0.03	0.00	0.03	4.50	0.12	0.00	0.12
1.95	0.04	0.00	0.04	4.55	0.12	0.00	0.12
2.00	0.04	0.00	0.04	4.60	0.12	0.00	0.12
2.05	0.04	0.00	0.04	4.65	0.12	0.00	0.12
2.10	0.04	0.00	0.04	4.70	0.12	0.00	0.12
2.15	0.04	0.00	0.04	4.75	0.12	0.00	0.12
2.20	0.05	0.00	0.05	4.80	0.12	0.00	0.12
2.25	0.05	0.00	0.05	4.85	0.12	0.00	0.12
2.30	0.05	0.00	0.05	4.90	0.13	0.00	0.13
2.35	0.05	0.00	0.05	4.95	0.13	0.00	0.13
2.40	0.05	0.00	0.05	5.00	0.13	0.00	0.13
2.45	0.06	0.00	0.06	5.05	0.13	0.00	0.13
2.50	0.06	0.00	0.06	5.10	0.13	0.00	0.13
2.55	0.06	0.00	0.06	5.15	0.13	0.00	0.13

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.13	0.00	0.13	7.80	0.24	0.00	0.24
5.25	0.13	0.00	0.13	7.85	0.24	0.00	0.24
5.30	0.13	0.00	0.13	7.90	0.24	0.00	0.24
5.35	0.14	0.00	0.14	7.95	0.25	0.00	0.25
5.40	0.14	0.00	0.14	8.00	0.25	0.00	0.25
5.45	0.14	0.00	0.14	8.05	0.25	0.00	0.25
5.50	0.14	0.00	0.14	8.10	0.25	0.00	0.25
5.55	0.14	0.00	0.14	8.15	0.26	0.00	0.26
5.60	0.14	0.00	0.14	8.20	0.26	0.00	0.26
5.65	0.14	0.00	0.14	8.25	0.26	0.00	0.26
5.70	0.14	0.00	0.14	8.30	0.26	0.00	0.26
5.75	0.14	0.00	0.14	8.35	0.27	0.00	0.27
5.80	0.15	0.00	0.15	8.40	0.27	0.00	0.27
5.85	0.15	0.00	0.15	8.45	0.27	0.00	0.27
5.90	0.15	0.00	0.15	8.50	0.28	0.00	0.28
5.95	0.15	0.00	0.15	8.55	0.28	0.00	0.28
6.00	0.15	0.00	0.15	8.60	0.28	0.00	0.28
6.05	0.15	0.00	0.15	8.65	0.28	0.00	0.28
6.10	0.15	0.00	0.15	8.70	0.29	0.00	0.29
6.15	0.16	0.00	0.16	8.75	0.29	0.00	0.29
6.20	0.16	0.00	0.16	8.80	0.29	0.00	0.29
6.25	0.16	0.00	0.16	8.85	0.29	0.00	0.29
6.30	0.16	0.00	0.16	8.90	0.30	0.00	0.30
6.35	0.16	0.00	0.16	8.95	0.30	0.00	0.30
6.40	0.17	0.00	0.17	9.00	0.30	0.00	0.30
6.45	0.17	0.00	0.17	9.05	0.31	0.00	0.31
6.50	0.17	0.00	0.17	9.10	0.31	0.00	0.31
6.55	0.17	0.00	0.17	9.15	0.32	0.00	0.32
6.60	0.18	0.00	0.18	9.20	0.33	0.00	0.33
6.65	0.18	0.00	0.18	9.25	0.33	0.00	0.33
6.70	0.18	0.00	0.18	9.30	0.34	0.00	0.34
6.75	0.18	0.00	0.18	9.35	0.35	0.00	0.35
6.80	0.19	0.00	0.19	9.40	0.36	0.00	0.36
6.85	0.19	0.00	0.19	9.45	0.37	0.00	0.37
6.90	0.19	0.00	0.19	9.50	0.38	0.00	0.38
6.95	0.19	0.00	0.19	9.55	0.39	0.00	0.39
7.00	0.20	0.00	0.20	9.60	0.40	0.00	0.40
7.05	0.20	0.00	0.20	9.65	0.40	0.00	0.40
7.10	0.20	0.00	0.20	9.70	0.41	0.00	0.41
7.15	0.20	0.00	0.20	9.75	0.42	0.00	0.42
7.20	0.21	0.00	0.21	9.80	0.43	0.00	0.43
7.25	0.21	0.00	0.21	9.85	0.44	0.00	0.44
7.30	0.21	0.00	0.21	9.90	0.45	0.00	0.45
7.35	0.21	0.00	0.21	9.95	0.46	0.00	0.46
7.40	0.22	0.00	0.22	10.00	0.47	0.00	0.47
7.45	0.22	0.00	0.22	10.05	0.48	0.00	0.48
7.50	0.22	0.00	0.22	10.10	0.49	0.00	0.49
7.55	0.23	0.00	0.23	10.15	0.49	0.00	0.49
7.60	0.23	0.00	0.23	10.20	0.50	0.00	0.50
7.65	0.23	0.00	0.23	10.25	0.51	0.00	0.51
7.70	0.23	0.00	0.23	10.30	0.52	0.00	0.52
7.75	0.24	0.00	0.24	10.35	0.53	0.00	0.53

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.54	0.00	0.54	13.00	1.32	0.00	1.32
10.45	0.55	0.00	0.55	13.05	1.25	0.00	1.25
10.50	0.56	0.00	0.56	13.10	1.18	0.00	1.18
10.55	0.58	0.00	0.58	13.15	1.12	0.00	1.12
10.60	0.60	0.00	0.60	13.20	1.06	0.00	1.06
10.65	0.63	0.00	0.63	13.25	1.02	0.00	1.02
10.70	0.66	0.00	0.66	13.30	0.97	0.00	0.97
10.75	0.69	0.00	0.69	13.35	0.93	0.00	0.93
10.80	0.72	0.00	0.72	13.40	0.89	0.00	0.89
10.85	0.75	0.00	0.75	13.45	0.85	0.00	0.85
10.90	0.78	0.00	0.78	13.50	0.81	0.00	0.81
10.95	0.82	0.00	0.82	13.55	0.78	0.00	0.78
11.00	0.85	0.00	0.85	13.60	0.74	0.00	0.74
11.05	0.90	0.00	0.90	13.65	0.71	0.00	0.71
11.10	0.95	0.00	0.95	13.70	0.69	0.00	0.69
11.15	1.00	0.00	1.00	13.75	0.67	0.00	0.67
11.20	1.06	0.00	1.06	13.80	0.65	0.00	0.65
11.25	1.12	0.00	1.12	13.85	0.64	0.00	0.64
11.30	1.18	0.00	1.18	13.90	0.63	0.00	0.63
11.35	1.24	0.00	1.24	13.95	0.62	0.00	0.62
11.40	1.31	0.00	1.31	14.00	0.61	0.00	0.61
11.45	1.37	0.00	1.37	14.05	0.60	0.00	0.60
11.50	1.43	0.00	1.43	14.10	0.59	0.00	0.59
11.55	1.60	0.00	1.60	14.15	0.58	0.00	0.58
11.60	1.87	0.00	1.87	14.20	0.57	0.00	0.57
11.65	2.08	0.00	2.08	14.25	0.56	0.00	0.56
11.70	2.24	0.00	2.24	14.30	0.55	0.00	0.55
11.75	2.50	0.00	2.50	14.35	0.54	0.00	0.54
11.80	2.85	0.00	2.85	14.40	0.53	0.00	0.53
11.85	3.31	0.00	3.31	14.45	0.52	0.00	0.52
11.90	3.87	0.00	3.87	14.50	0.51	0.00	0.51
11.95	4.81	0.00	4.81	14.55	0.50	0.00	0.50
12.00	6.14	0.00	6.14	14.60	0.49	0.00	0.49
12.05	7.96	0.00	7.96	14.65	0.48	0.00	0.48
12.10	**10.31**	0.00	**10.31**	14.70	0.47	0.00	0.47
12.15	**10.54**	0.00	**10.54**	14.75	0.46	0.00	0.46
12.20	8.79	0.00	8.79	14.80	0.45	0.00	0.45
12.25	7.30	0.00	7.30	14.85	0.44	0.00	0.44
12.30	6.10	0.00	6.10	14.90	0.43	0.00	0.43
12.35	5.15	0.00	5.15	14.95	0.42	0.00	0.42
12.40	4.34	0.00	4.34	15.00	0.41	0.00	0.41
12.45	3.75	0.00	3.75	15.05	0.40	0.00	0.40
12.50	3.33	0.00	3.33	15.10	0.39	0.00	0.39
12.55	2.92	0.00	2.92	15.15	0.38	0.00	0.38
12.60	2.48	0.00	2.48	15.20	0.38	0.00	0.38
12.65	2.18	0.00	2.18	15.25	0.37	0.00	0.37
12.70	1.96	0.00	1.96	15.30	0.37	0.00	0.37
12.75	1.80	0.00	1.80	15.35	0.37	0.00	0.37
12.80	1.67	0.00	1.67	15.40	0.36	0.00	0.36
12.85	1.57	0.00	1.57	15.45	0.36	0.00	0.36
12.90	1.48	0.00	1.48	15.50	0.36	0.00	0.36
12.95	1.40	0.00	1.40	15.55	0.35	0.00	0.35

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.35	0.00	0.35	18.20	0.22	0.00	0.22
15.65	0.35	0.00	0.35	18.25	0.22	0.00	0.22
15.70	0.35	0.00	0.35	18.30	0.21	0.00	0.21
15.75	0.34	0.00	0.34	18.35	0.21	0.00	0.21
15.80	0.34	0.00	0.34	18.40	0.21	0.00	0.21
15.85	0.34	0.00	0.34	18.45	0.21	0.00	0.21
15.90	0.34	0.00	0.34	18.50	0.21	0.00	0.21
15.95	0.33	0.00	0.33	18.55	0.21	0.00	0.21
16.00	0.33	0.00	0.33	18.60	0.21	0.00	0.21
16.05	0.33	0.00	0.33	18.65	0.21	0.00	0.21
16.10	0.33	0.00	0.33	18.70	0.21	0.00	0.21
16.15	0.32	0.00	0.32	18.75	0.21	0.00	0.21
16.20	0.32	0.00	0.32	18.80	0.21	0.00	0.21
16.25	0.32	0.00	0.32	18.85	0.21	0.00	0.21
16.30	0.31	0.00	0.31	18.90	0.21	0.00	0.21
16.35	0.31	0.00	0.31	18.95	0.21	0.00	0.21
16.40	0.31	0.00	0.31	19.00	0.20	0.00	0.20
16.45	0.31	0.00	0.31	19.05	0.20	0.00	0.20
16.50	0.30	0.00	0.30	19.10	0.20	0.00	0.20
16.55	0.30	0.00	0.30	19.15	0.20	0.00	0.20
16.60	0.30	0.00	0.30	19.20	0.20	0.00	0.20
16.65	0.30	0.00	0.30	19.25	0.20	0.00	0.20
16.70	0.29	0.00	0.29	19.30	0.20	0.00	0.20
16.75	0.29	0.00	0.29	19.35	0.20	0.00	0.20
16.80	0.29	0.00	0.29	19.40	0.20	0.00	0.20
16.85	0.29	0.00	0.29	19.45	0.20	0.00	0.20
16.90	0.28	0.00	0.28	19.50	0.20	0.00	0.20
16.95	0.28	0.00	0.28	19.55	0.20	0.00	0.20
17.00	0.28	0.00	0.28	19.60	0.20	0.00	0.20
17.05	0.28	0.00	0.28	19.65	0.20	0.00	0.20
17.10	0.27	0.00	0.27	19.70	0.20	0.00	0.20
17.15	0.27	0.00	0.27	19.75	0.20	0.00	0.20
17.20	0.27	0.00	0.27	19.80	0.19	0.00	0.19
17.25	0.27	0.00	0.27	19.85	0.19	0.00	0.19
17.30	0.26	0.00	0.26	19.90	0.19	0.00	0.19
17.35	0.26	0.00	0.26	19.95	0.19	0.00	0.19
17.40	0.26	0.00	0.26	20.00	0.19	0.00	0.19
17.45	0.25	0.00	0.25	20.05	0.19	0.00	0.19
17.50	0.25	0.00	0.25	20.10	0.19	0.00	0.19
17.55	0.25	0.00	0.25	20.15	0.19	0.00	0.19
17.60	0.25	0.00	0.25	20.20	0.19	0.00	0.19
17.65	0.24	0.00	0.24	20.25	0.19	0.00	0.19
17.70	0.24	0.00	0.24	20.30	0.19	0.00	0.19
17.75	0.24	0.00	0.24	20.35	0.19	0.00	0.19
17.80	0.24	0.00	0.24	20.40	0.19	0.00	0.19
17.85	0.23	0.00	0.23	20.45	0.19	0.00	0.19
17.90	0.23	0.00	0.23	20.50	0.19	0.00	0.19
17.95	0.23	0.00	0.23	20.55	0.18	0.00	0.18
18.00	0.23	0.00	0.23	20.60	0.18	0.00	0.18
18.05	0.22	0.00	0.22	20.65	0.18	0.00	0.18
18.10	0.22	0.00	0.22	20.70	0.18	0.00	0.18
18.15	0.22	0.00	0.22	20.75	0.18	0.00	0.18

Hydrograph for Link E1B: E1B (continued)

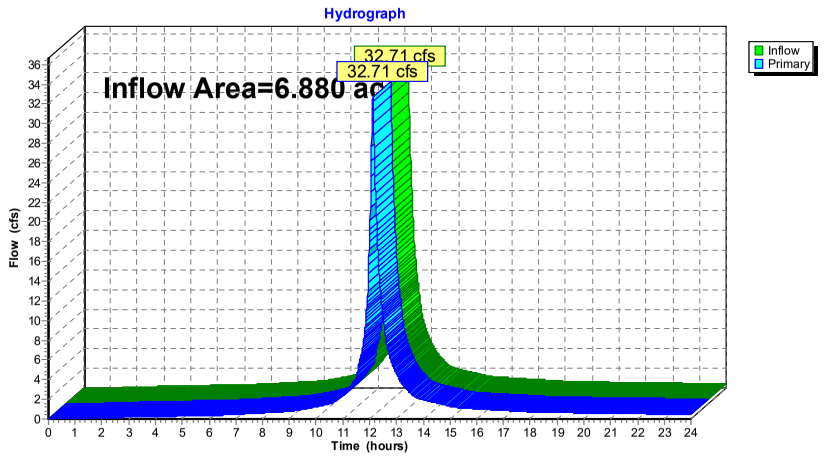
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.18	0.00	0.18	23.40	0.15	0.00	0.15
20.85	0.18	0.00	0.18	23.45	0.15	0.00	0.15
20.90	0.18	0.00	0.18	23.50	0.15	0.00	0.15
20.95	0.18	0.00	0.18	23.55	0.14	0.00	0.14
21.00	0.18	0.00	0.18	23.60	0.14	0.00	0.14
21.05	0.18	0.00	0.18	23.65	0.14	0.00	0.14
21.10	0.18	0.00	0.18	23.70	0.14	0.00	0.14
21.15	0.18	0.00	0.18	23.75	0.14	0.00	0.14
21.20	0.18	0.00	0.18	23.80	0.14	0.00	0.14
21.25	0.18	0.00	0.18	23.85	0.14	0.00	0.14
21.30	0.18	0.00	0.18	23.90	0.14	0.00	0.14
21.35	0.17	0.00	0.17	23.95	0.14	0.00	0.14
21.40	0.17	0.00	0.17	24.00	0.15	0.00	0.15
21.45	0.17	0.00	0.17				
21.50	0.17	0.00	0.17				
21.55	0.17	0.00	0.17				
21.60	0.17	0.00	0.17				
21.65	0.17	0.00	0.17				
21.70	0.17	0.00	0.17				
21.75	0.17	0.00	0.17				
21.80	0.17	0.00	0.17				
21.85	0.17	0.00	0.17				
21.90	0.17	0.00	0.17				
21.95	0.17	0.00	0.17				
22.00	0.17	0.00	0.17				
22.05	0.16	0.00	0.16				
22.10	0.16	0.00	0.16				
22.15	0.16	0.00	0.16				
22.20	0.16	0.00	0.16				
22.25	0.16	0.00	0.16				
22.30	0.16	0.00	0.16				
22.35	0.16	0.00	0.16				
22.40	0.16	0.00	0.16				
22.45	0.16	0.00	0.16				
22.50	0.16	0.00	0.16				
22.55	0.16	0.00	0.16				
22.60	0.16	0.00	0.16				
22.65	0.16	0.00	0.16				
22.70	0.16	0.00	0.16				
22.75	0.16	0.00	0.16				
22.80	0.15	0.00	0.15				
22.85	0.15	0.00	0.15				
22.90	0.15	0.00	0.15				
22.95	0.15	0.00	0.15				
23.00	0.15	0.00	0.15				
23.05	0.15	0.00	0.15				
23.10	0.15	0.00	0.15				
23.15	0.15	0.00	0.15				
23.20	0.15	0.00	0.15				
23.25	0.15	0.00	0.15				
23.30	0.15	0.00	0.15				
23.35	0.15	0.00	0.15				

Summary for Link EPOI-1: EPOI-1

Inflow Area = 6.880 ac, 33.14% Impervious, Inflow Depth > 5.12" for 25YR CURRENT event
Inflow = 32.71 cfs @ 12.12 hrs, Volume= 2.933 af
Primary = 32.71 cfs @ 12.12 hrs, Volume= 2.933 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link EPOI-1: EPOI-1



Hydrograph for Link EPOI-1: EPOI-1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.16	0.00	0.16
0.05	0.00	0.00	0.00	2.65	0.16	0.00	0.16
0.10	0.00	0.00	0.00	2.70	0.16	0.00	0.16
0.15	0.00	0.00	0.00	2.75	0.17	0.00	0.17
0.20	0.00	0.00	0.00	2.80	0.17	0.00	0.17
0.25	0.00	0.00	0.00	2.85	0.17	0.00	0.17
0.30	0.00	0.00	0.00	2.90	0.18	0.00	0.18
0.35	0.00	0.00	0.00	2.95	0.18	0.00	0.18
0.40	0.00	0.00	0.00	3.00	0.18	0.00	0.18
0.45	0.00	0.00	0.00	3.05	0.19	0.00	0.19
0.50	0.00	0.00	0.00	3.10	0.19	0.00	0.19
0.55	0.00	0.00	0.00	3.15	0.19	0.00	0.19
0.60	0.00	0.00	0.00	3.20	0.20	0.00	0.20
0.65	0.00	0.00	0.00	3.25	0.20	0.00	0.20
0.70	0.00	0.00	0.00	3.30	0.20	0.00	0.20
0.75	0.00	0.00	0.00	3.35	0.21	0.00	0.21
0.80	0.01	0.00	0.01	3.40	0.21	0.00	0.21
0.85	0.01	0.00	0.01	3.45	0.21	0.00	0.21
0.90	0.01	0.00	0.01	3.50	0.22	0.00	0.22
0.95	0.01	0.00	0.01	3.55	0.22	0.00	0.22
1.00	0.02	0.00	0.02	3.60	0.22	0.00	0.22
1.05	0.02	0.00	0.02	3.65	0.22	0.00	0.22
1.10	0.02	0.00	0.02	3.70	0.23	0.00	0.23
1.15	0.03	0.00	0.03	3.75	0.23	0.00	0.23
1.20	0.03	0.00	0.03	3.80	0.23	0.00	0.23
1.25	0.04	0.00	0.04	3.85	0.23	0.00	0.23
1.30	0.04	0.00	0.04	3.90	0.24	0.00	0.24
1.35	0.05	0.00	0.05	3.95	0.24	0.00	0.24
1.40	0.05	0.00	0.05	4.00	0.24	0.00	0.24
1.45	0.06	0.00	0.06	4.05	0.25	0.00	0.25
1.50	0.06	0.00	0.06	4.10	0.25	0.00	0.25
1.55	0.07	0.00	0.07	4.15	0.25	0.00	0.25
1.60	0.07	0.00	0.07	4.20	0.25	0.00	0.25
1.65	0.08	0.00	0.08	4.25	0.26	0.00	0.26
1.70	0.08	0.00	0.08	4.30	0.26	0.00	0.26
1.75	0.08	0.00	0.08	4.35	0.26	0.00	0.26
1.80	0.09	0.00	0.09	4.40	0.26	0.00	0.26
1.85	0.09	0.00	0.09	4.45	0.27	0.00	0.27
1.90	0.10	0.00	0.10	4.50	0.27	0.00	0.27
1.95	0.10	0.00	0.10	4.55	0.27	0.00	0.27
2.00	0.11	0.00	0.11	4.60	0.27	0.00	0.27
2.05	0.11	0.00	0.11	4.65	0.28	0.00	0.28
2.10	0.12	0.00	0.12	4.70	0.28	0.00	0.28
2.15	0.12	0.00	0.12	4.75	0.28	0.00	0.28
2.20	0.12	0.00	0.12	4.80	0.28	0.00	0.28
2.25	0.13	0.00	0.13	4.85	0.29	0.00	0.29
2.30	0.13	0.00	0.13	4.90	0.29	0.00	0.29
2.35	0.14	0.00	0.14	4.95	0.29	0.00	0.29
2.40	0.14	0.00	0.14	5.00	0.29	0.00	0.29
2.45	0.14	0.00	0.14	5.05	0.29	0.00	0.29
2.50	0.15	0.00	0.15	5.10	0.30	0.00	0.30
2.55	0.15	0.00	0.15	5.15	0.30	0.00	0.30

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.30	0.00	0.30	7.80	0.58	0.00	0.58
5.25	0.30	0.00	0.30	7.85	0.59	0.00	0.59
5.30	0.31	0.00	0.31	7.90	0.59	0.00	0.59
5.35	0.31	0.00	0.31	7.95	0.60	0.00	0.60
5.40	0.31	0.00	0.31	8.00	0.61	0.00	0.61
5.45	0.31	0.00	0.31	8.05	0.62	0.00	0.62
5.50	0.31	0.00	0.31	8.10	0.62	0.00	0.62
5.55	0.32	0.00	0.32	8.15	0.63	0.00	0.63
5.60	0.32	0.00	0.32	8.20	0.64	0.00	0.64
5.65	0.32	0.00	0.32	8.25	0.65	0.00	0.65
5.70	0.32	0.00	0.32	8.30	0.66	0.00	0.66
5.75	0.33	0.00	0.33	8.35	0.66	0.00	0.66
5.80	0.33	0.00	0.33	8.40	0.67	0.00	0.67
5.85	0.33	0.00	0.33	8.45	0.68	0.00	0.68
5.90	0.33	0.00	0.33	8.50	0.69	0.00	0.69
5.95	0.33	0.00	0.33	8.55	0.70	0.00	0.70
6.00	0.34	0.00	0.34	8.60	0.70	0.00	0.70
6.05	0.34	0.00	0.34	8.65	0.71	0.00	0.71
6.10	0.34	0.00	0.34	8.70	0.72	0.00	0.72
6.15	0.35	0.00	0.35	8.75	0.73	0.00	0.73
6.20	0.36	0.00	0.36	8.80	0.74	0.00	0.74
6.25	0.36	0.00	0.36	8.85	0.75	0.00	0.75
6.30	0.37	0.00	0.37	8.90	0.75	0.00	0.75
6.35	0.37	0.00	0.37	8.95	0.76	0.00	0.76
6.40	0.38	0.00	0.38	9.00	0.77	0.00	0.77
6.45	0.39	0.00	0.39	9.05	0.79	0.00	0.79
6.50	0.39	0.00	0.39	9.10	0.80	0.00	0.80
6.55	0.40	0.00	0.40	9.15	0.82	0.00	0.82
6.60	0.41	0.00	0.41	9.20	0.85	0.00	0.85
6.65	0.41	0.00	0.41	9.25	0.87	0.00	0.87
6.70	0.42	0.00	0.42	9.30	0.89	0.00	0.89
6.75	0.43	0.00	0.43	9.35	0.92	0.00	0.92
6.80	0.43	0.00	0.43	9.40	0.94	0.00	0.94
6.85	0.44	0.00	0.44	9.45	0.97	0.00	0.97
6.90	0.45	0.00	0.45	9.50	0.99	0.00	0.99
6.95	0.45	0.00	0.45	9.55	1.02	0.00	1.02
7.00	0.46	0.00	0.46	9.60	1.04	0.00	1.04
7.05	0.47	0.00	0.47	9.65	1.07	0.00	1.07
7.10	0.47	0.00	0.47	9.70	1.09	0.00	1.09
7.15	0.48	0.00	0.48	9.75	1.12	0.00	1.12
7.20	0.49	0.00	0.49	9.80	1.14	0.00	1.14
7.25	0.50	0.00	0.50	9.85	1.17	0.00	1.17
7.30	0.50	0.00	0.50	9.90	1.20	0.00	1.20
7.35	0.51	0.00	0.51	9.95	1.23	0.00	1.23
7.40	0.52	0.00	0.52	10.00	1.25	0.00	1.25
7.45	0.53	0.00	0.53	10.05	1.28	0.00	1.28
7.50	0.53	0.00	0.53	10.10	1.31	0.00	1.31
7.55	0.54	0.00	0.54	10.15	1.33	0.00	1.33
7.60	0.55	0.00	0.55	10.20	1.36	0.00	1.36
7.65	0.55	0.00	0.55	10.25	1.39	0.00	1.39
7.70	0.56	0.00	0.56	10.30	1.42	0.00	1.42
7.75	0.57	0.00	0.57	10.35	1.45	0.00	1.45

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	1.47	0.00	1.47	13.00	4.61	0.00	4.61
10.45	1.50	0.00	1.50	13.05	4.32	0.00	4.32
10.50	1.53	0.00	1.53	13.10	4.05	0.00	4.05
10.55	1.59	0.00	1.59	13.15	3.82	0.00	3.82
10.60	1.66	0.00	1.66	13.20	3.62	0.00	3.62
10.65	1.74	0.00	1.74	13.25	3.44	0.00	3.44
10.70	1.82	0.00	1.82	13.30	3.27	0.00	3.27
10.75	1.91	0.00	1.91	13.35	3.12	0.00	3.12
10.80	2.01	0.00	2.01	13.40	2.97	0.00	2.97
10.85	2.10	0.00	2.10	13.45	2.83	0.00	2.83
10.90	2.20	0.00	2.20	13.50	2.70	0.00	2.70
10.95	2.30	0.00	2.30	13.55	2.56	0.00	2.56
11.00	2.40	0.00	2.40	13.60	2.43	0.00	2.43
11.05	2.53	0.00	2.53	13.65	2.33	0.00	2.33
11.10	2.68	0.00	2.68	13.70	2.26	0.00	2.26
11.15	2.85	0.00	2.85	13.75	2.19	0.00	2.19
11.20	3.02	0.00	3.02	13.80	2.13	0.00	2.13
11.25	3.21	0.00	3.21	13.85	2.08	0.00	2.08
11.30	3.39	0.00	3.39	13.90	2.04	0.00	2.04
11.35	3.58	0.00	3.58	13.95	1.99	0.00	1.99
11.40	3.77	0.00	3.77	14.00	1.96	0.00	1.96
11.45	3.95	0.00	3.95	14.05	1.92	0.00	1.92
11.50	4.12	0.00	4.12	14.10	1.88	0.00	1.88
11.55	4.74	0.00	4.74	14.15	1.85	0.00	1.85
11.60	5.54	0.00	5.54	14.20	1.81	0.00	1.81
11.65	6.12	0.00	6.12	14.25	1.78	0.00	1.78
11.70	6.57	0.00	6.57	14.30	1.74	0.00	1.74
11.75	7.43	0.00	7.43	14.35	1.71	0.00	1.71
11.80	8.46	0.00	8.46	14.40	1.68	0.00	1.68
11.85	9.94	0.00	9.94	14.45	1.65	0.00	1.65
11.90	11.57	0.00	11.57	14.50	1.62	0.00	1.62
11.95	14.80	0.00	14.80	14.55	1.58	0.00	1.58
12.00	18.66	0.00	18.66	14.60	1.55	0.00	1.55
12.05	24.65	0.00	24.65	14.65	1.52	0.00	1.52
12.10	**31.46**	0.00	**31.46**	14.70	1.49	0.00	1.49
12.15	**30.02**	0.00	**30.02**	14.75	1.46	0.00	1.46
12.20	24.56	0.00	24.56	14.80	1.43	0.00	1.43
12.25	20.59	0.00	20.59	14.85	1.40	0.00	1.40
12.30	17.49	0.00	17.49	14.90	1.37	0.00	1.37
12.35	14.98	0.00	14.98	14.95	1.33	0.00	1.33
12.40	12.94	0.00	12.94	15.00	1.30	0.00	1.30
12.45	11.57	0.00	11.57	15.05	1.27	0.00	1.27
12.50	10.63	0.00	10.63	15.10	1.24	0.00	1.24
12.55	9.45	0.00	9.45	15.15	1.22	0.00	1.22
12.60	8.25	0.00	8.25	15.20	1.20	0.00	1.20
12.65	7.41	0.00	7.41	15.25	1.18	0.00	1.18
12.70	6.81	0.00	6.81	15.30	1.17	0.00	1.17
12.75	6.31	0.00	6.31	15.35	1.16	0.00	1.16
12.80	5.89	0.00	5.89	15.40	1.15	0.00	1.15
12.85	5.53	0.00	5.53	15.45	1.14	0.00	1.14
12.90	5.21	0.00	5.21	15.50	1.13	0.00	1.13
12.95	4.89	0.00	4.89	15.55	1.12	0.00	1.12

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	1.11	0.00	1.11	18.20	0.68	0.00	0.68
15.65	1.10	0.00	1.10	18.25	0.68	0.00	0.68
15.70	1.09	0.00	1.09	18.30	0.68	0.00	0.68
15.75	1.08	0.00	1.08	18.35	0.67	0.00	0.67
15.80	1.07	0.00	1.07	18.40	0.67	0.00	0.67
15.85	1.07	0.00	1.07	18.45	0.67	0.00	0.67
15.90	1.06	0.00	1.06	18.50	0.67	0.00	0.67
15.95	1.05	0.00	1.05	18.55	0.66	0.00	0.66
16.00	1.04	0.00	1.04	18.60	0.66	0.00	0.66
16.05	1.03	0.00	1.03	18.65	0.66	0.00	0.66
16.10	1.02	0.00	1.02	18.70	0.66	0.00	0.66
16.15	1.02	0.00	1.02	18.75	0.65	0.00	0.65
16.20	1.01	0.00	1.01	18.80	0.65	0.00	0.65
16.25	1.00	0.00	1.00	18.85	0.65	0.00	0.65
16.30	0.99	0.00	0.99	18.90	0.65	0.00	0.65
16.35	0.98	0.00	0.98	18.95	0.64	0.00	0.64
16.40	0.97	0.00	0.97	19.00	0.64	0.00	0.64
16.45	0.97	0.00	0.97	19.05	0.64	0.00	0.64
16.50	0.96	0.00	0.96	19.10	0.64	0.00	0.64
16.55	0.95	0.00	0.95	19.15	0.64	0.00	0.64
16.60	0.94	0.00	0.94	19.20	0.63	0.00	0.63
16.65	0.93	0.00	0.93	19.25	0.63	0.00	0.63
16.70	0.93	0.00	0.93	19.30	0.63	0.00	0.63
16.75	0.92	0.00	0.92	19.35	0.63	0.00	0.63
16.80	0.91	0.00	0.91	19.40	0.63	0.00	0.63
16.85	0.90	0.00	0.90	19.45	0.62	0.00	0.62
16.90	0.89	0.00	0.89	19.50	0.62	0.00	0.62
16.95	0.88	0.00	0.88	19.55	0.62	0.00	0.62
17.00	0.88	0.00	0.88	19.60	0.62	0.00	0.62
17.05	0.87	0.00	0.87	19.65	0.62	0.00	0.62
17.10	0.86	0.00	0.86	19.70	0.61	0.00	0.61
17.15	0.85	0.00	0.85	19.75	0.61	0.00	0.61
17.20	0.84	0.00	0.84	19.80	0.61	0.00	0.61
17.25	0.83	0.00	0.83	19.85	0.61	0.00	0.61
17.30	0.83	0.00	0.83	19.90	0.61	0.00	0.61
17.35	0.82	0.00	0.82	19.95	0.60	0.00	0.60
17.40	0.81	0.00	0.81	20.00	0.60	0.00	0.60
17.45	0.80	0.00	0.80	20.05	0.60	0.00	0.60
17.50	0.79	0.00	0.79	20.10	0.60	0.00	0.60
17.55	0.79	0.00	0.79	20.15	0.60	0.00	0.60
17.60	0.78	0.00	0.78	20.20	0.59	0.00	0.59
17.65	0.77	0.00	0.77	20.25	0.59	0.00	0.59
17.70	0.76	0.00	0.76	20.30	0.59	0.00	0.59
17.75	0.75	0.00	0.75	20.35	0.59	0.00	0.59
17.80	0.74	0.00	0.74	20.40	0.58	0.00	0.58
17.85	0.74	0.00	0.74	20.45	0.58	0.00	0.58
17.90	0.73	0.00	0.73	20.50	0.58	0.00	0.58
17.95	0.72	0.00	0.72	20.55	0.58	0.00	0.58
18.00	0.71	0.00	0.71	20.60	0.58	0.00	0.58
18.05	0.70	0.00	0.70	20.65	0.58	0.00	0.58
18.10	0.69	0.00	0.69	20.70	0.57	0.00	0.57
18.15	0.69	0.00	0.69	20.75	0.57	0.00	0.57

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.57	0.00	0.57	23.40	0.46	0.00	0.46
20.85	0.57	0.00	0.57	23.45	0.46	0.00	0.46
20.90	0.56	0.00	0.56	23.50	0.46	0.00	0.46
20.95	0.56	0.00	0.56	23.55	0.45	0.00	0.45
21.00	0.56	0.00	0.56	23.60	0.45	0.00	0.45
21.05	0.56	0.00	0.56	23.65	0.45	0.00	0.45
21.10	0.56	0.00	0.56	23.70	0.45	0.00	0.45
21.15	0.55	0.00	0.55	23.75	0.45	0.00	0.45
21.20	0.55	0.00	0.55	23.80	0.44	0.00	0.44
21.25	0.55	0.00	0.55	23.85	0.44	0.00	0.44
21.30	0.55	0.00	0.55	23.90	0.44	0.00	0.44
21.35	0.55	0.00	0.55	23.95	0.46	0.00	0.46
21.40	0.54	0.00	0.54	24.00	0.49	0.00	0.49
21.45	0.54	0.00	0.54				
21.50	0.54	0.00	0.54				
21.55	0.54	0.00	0.54				
21.60	0.54	0.00	0.54				
21.65	0.53	0.00	0.53				
21.70	0.53	0.00	0.53				
21.75	0.53	0.00	0.53				
21.80	0.53	0.00	0.53				
21.85	0.53	0.00	0.53				
21.90	0.52	0.00	0.52				
21.95	0.52	0.00	0.52				
22.00	0.52	0.00	0.52				
22.05	0.52	0.00	0.52				
22.10	0.51	0.00	0.51				
22.15	0.51	0.00	0.51				
22.20	0.51	0.00	0.51				
22.25	0.51	0.00	0.51				
22.30	0.51	0.00	0.51				
22.35	0.50	0.00	0.50				
22.40	0.50	0.00	0.50				
22.45	0.50	0.00	0.50				
22.50	0.50	0.00	0.50				
22.55	0.50	0.00	0.50				
22.60	0.50	0.00	0.50				
22.65	0.49	0.00	0.49				
22.70	0.49	0.00	0.49				
22.75	0.49	0.00	0.49				
22.80	0.49	0.00	0.49				
22.85	0.48	0.00	0.48				
22.90	0.48	0.00	0.48				
22.95	0.48	0.00	0.48				
23.00	0.48	0.00	0.48				
23.05	0.48	0.00	0.48				
23.10	0.47	0.00	0.47				
23.15	0.47	0.00	0.47				
23.20	0.47	0.00	0.47				
23.25	0.47	0.00	0.47				
23.30	0.46	0.00	0.46				
23.35	0.46	0.00	0.46				

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentEDA 1B PERV: EDA-1B PERV Runoff Area=0.380 ac 0.00% Impervious Runoff Depth>3.20"
Flow Length=761' Tc=5.5 min CN=53 Runoff=1.29 cfs 0.101 af

SubcatchmentEDA1A IMP: EDA1A IMP Runoff Area=1.100 ac 68.18% Impervious Runoff Depth>8.58"
Flow Length=496' Tc=3.2 min CN=97 Runoff=10.27 cfs 0.787 af

SubcatchmentEDA1A PERV: EDA-1A PERV Runoff Area=0.280 ac 0.00% Impervious Runoff Depth>6.51"
Flow Length=496' Tc=3.2 min CN=80 Runoff=2.26 cfs 0.152 af

SubcatchmentEDA1B IMP: EDA1B IMP Runoff Area=1.550 ac 19.35% Impervious Runoff Depth>8.45"
Flow Length=787' Tc=6.3 min CN=96 Runoff=11.83 cfs 1.092 af

SubcatchmentEDA2 IMP: EDA2 IMP Runoff Area=0.310 ac 100.00% Impervious Runoff Depth>8.70"
Flow Length=351' Tc=2.3 min CN=98 Runoff=3.09 cfs 0.225 af

SubcatchmentEDA3 IMP: EDA3 IMP Runoff Area=0.800 ac 100.00% Impervious Runoff Depth>8.70"
Flow Length=804' Tc=4.8 min CN=98 Runoff=6.73 cfs 0.580 af

SubcatchmentEDA3 PERV: EDA3 PERV Runoff Area=0.850 ac 0.00% Impervious Runoff Depth>6.51"
Flow Length=131' Tc=3.6 min CN=80 Runoff=6.67 cfs 0.461 af

SubcatchmentEDA4 IMP: EDA4 IMP Runoff Area=0.170 ac 70.59% Impervious Runoff Depth>8.58"
Flow Length=188' Tc=1.9 min CN=97 Runoff=1.72 cfs 0.122 af

SubcatchmentEDA4 PERV: EDA4 PERV Runoff Area=1.440 ac 0.00% Impervious Runoff Depth>6.48"
Flow Length=415' Tc=15.9 min CN=80 Runoff=6.15 cfs 0.778 af

Link E1A: E1A Inflow=12.53 cfs 0.939 af
Primary=12.53 cfs 0.939 af

Link E1B: E1B Inflow=15.65 cfs 1.418 af
Primary=15.65 cfs 1.418 af

Link EPOI-1: EPOI-1 Inflow=47.28 cfs 4.297 af
Primary=47.28 cfs 4.297 af

Total Runoff Area = 6.880 ac Runoff Volume = 4.297 af Average Runoff Depth = 7.49"
66.86% Pervious = 4.600 ac 33.14% Impervious = 2.280 ac

Summary for Subcatchment EDA 1B PERV: EDA-1B PERV

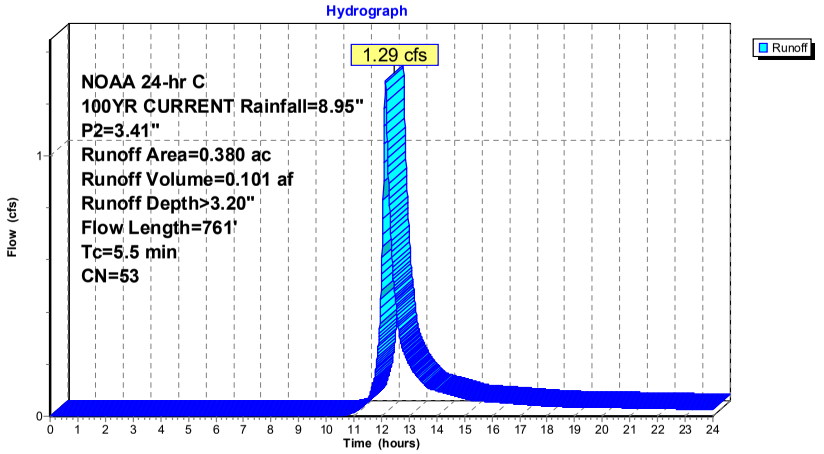
Runoff = 1.29 cfs @ 12.14 hrs, Volume= 0.101 af, Depth> 3.20"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR CURRENT Rainfall=8.95", P2=3.41"

Area (ac)	CN	Description
0.250	39	>75% Grass cover, Good, HSG A
0.130	80	>75% Grass cover, Good, HSG D
0.380	53	Weighted Average
0.380		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	93	0.0100	1.06		**Sheet Flow, Grass** Smooth surfaces n= 0.011 P2= 3.41"
0.8	74	0.0100	1.50		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.3	93	0.0110	5.40	9.55	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
5.5	761	Total			

Subcatchment EDA 1B PERV: EDA-1B PERV



Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.27	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.28	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.28	0.00	0.00
0.15	0.02	0.00	0.00	2.75	0.29	0.00	0.00
0.20	0.02	0.00	0.00	2.80	0.29	0.00	0.00
0.25	0.03	0.00	0.00	2.85	0.30	0.00	0.00
0.30	0.03	0.00	0.00	2.90	0.30	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.31	0.00	0.00
0.40	0.04	0.00	0.00	3.00	0.32	0.00	0.00
0.45	0.04	0.00	0.00	3.05	0.32	0.00	0.00
0.50	0.05	0.00	0.00	3.10	0.33	0.00	0.00
0.55	0.05	0.00	0.00	3.15	0.33	0.00	0.00
0.60	0.06	0.00	0.00	3.20	0.34	0.00	0.00
0.65	0.06	0.00	0.00	3.25	0.35	0.00	0.00
0.70	0.07	0.00	0.00	3.30	0.35	0.00	0.00
0.75	0.07	0.00	0.00	3.35	0.36	0.00	0.00
0.80	0.08	0.00	0.00	3.40	0.36	0.00	0.00
0.85	0.08	0.00	0.00	3.45	0.37	0.00	0.00
0.90	0.09	0.00	0.00	3.50	0.38	0.00	0.00
0.95	0.09	0.00	0.00	3.55	0.38	0.00	0.00
1.00	0.10	0.00	0.00	3.60	0.39	0.00	0.00
1.05	0.10	0.00	0.00	3.65	0.39	0.00	0.00
1.10	0.11	0.00	0.00	3.70	0.40	0.00	0.00
1.15	0.11	0.00	0.00	3.75	0.41	0.00	0.00
1.20	0.12	0.00	0.00	3.80	0.41	0.00	0.00
1.25	0.12	0.00	0.00	3.85	0.42	0.00	0.00
1.30	0.13	0.00	0.00	3.90	0.43	0.00	0.00
1.35	0.13	0.00	0.00	3.95	0.43	0.00	0.00
1.40	0.14	0.00	0.00	4.00	0.44	0.00	0.00
1.45	0.14	0.00	0.00	4.05	0.44	0.00	0.00
1.50	0.15	0.00	0.00	4.10	0.45	0.00	0.00
1.55	0.15	0.00	0.00	4.15	0.46	0.00	0.00
1.60	0.16	0.00	0.00	4.20	0.46	0.00	0.00
1.65	0.16	0.00	0.00	4.25	0.47	0.00	0.00
1.70	0.17	0.00	0.00	4.30	0.48	0.00	0.00
1.75	0.18	0.00	0.00	4.35	0.48	0.00	0.00
1.80	0.18	0.00	0.00	4.40	0.49	0.00	0.00
1.85	0.19	0.00	0.00	4.45	0.50	0.00	0.00
1.90	0.19	0.00	0.00	4.50	0.50	0.00	0.00
1.95	0.20	0.00	0.00	4.55	0.51	0.00	0.00
2.00	0.20	0.00	0.00	4.60	0.52	0.00	0.00
2.05	0.21	0.00	0.00	4.65	0.52	0.00	0.00
2.10	0.21	0.00	0.00	4.70	0.53	0.00	0.00
2.15	0.22	0.00	0.00	4.75	0.54	0.00	0.00
2.20	0.22	0.00	0.00	4.80	0.54	0.00	0.00
2.25	0.23	0.00	0.00	4.85	0.55	0.00	0.00
2.30	0.24	0.00	0.00	4.90	0.56	0.00	0.00
2.35	0.24	0.00	0.00	4.95	0.56	0.00	0.00
2.40	0.25	0.00	0.00	5.00	0.57	0.00	0.00
2.45	0.25	0.00	0.00	5.05	0.58	0.00	0.00
2.50	0.26	0.00	0.00	5.10	0.58	0.00	0.00
2.55	0.26	0.00	0.00	5.15	0.59	0.00	0.00

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.60	0.00	0.00	7.80	1.03	0.00	0.00
5.25	0.60	0.00	0.00	7.85	1.04	0.00	0.00
5.30	0.61	0.00	0.00	7.90	1.05	0.00	0.00
5.35	0.62	0.00	0.00	7.95	1.06	0.00	0.00
5.40	0.62	0.00	0.00	8.00	1.07	0.00	0.00
5.45	0.63	0.00	0.00	8.05	1.08	0.00	0.00
5.50	0.64	0.00	0.00	8.10	1.09	0.00	0.00
5.55	0.65	0.00	0.00	8.15	1.11	0.00	0.00
5.60	0.65	0.00	0.00	8.20	1.12	0.00	0.00
5.65	0.66	0.00	0.00	8.25	1.13	0.00	0.00
5.70	0.67	0.00	0.00	8.30	1.14	0.00	0.00
5.75	0.67	0.00	0.00	8.35	1.15	0.00	0.00
5.80	0.68	0.00	0.00	8.40	1.16	0.00	0.00
5.85	0.69	0.00	0.00	8.45	1.17	0.00	0.00
5.90	0.69	0.00	0.00	8.50	1.19	0.00	0.00
5.95	0.70	0.00	0.00	8.55	1.20	0.00	0.00
6.00	0.71	0.00	0.00	8.60	1.21	0.00	0.00
6.05	0.72	0.00	0.00	8.65	1.22	0.00	0.00
6.10	0.72	0.00	0.00	8.70	1.23	0.00	0.00
6.15	0.73	0.00	0.00	8.75	1.25	0.00	0.00
6.20	0.74	0.00	0.00	8.80	1.26	0.00	0.00
6.25	0.75	0.00	0.00	8.85	1.27	0.00	0.00
6.30	0.75	0.00	0.00	8.90	1.28	0.00	0.00
6.35	0.76	0.00	0.00	8.95	1.29	0.00	0.00
6.40	0.77	0.00	0.00	9.00	1.31	0.00	0.00
6.45	0.78	0.00	0.00	9.05	1.32	0.00	0.00
6.50	0.79	0.00	0.00	9.10	1.33	0.00	0.00
6.55	0.79	0.00	0.00	9.15	1.35	0.00	0.00
6.60	0.80	0.00	0.00	9.20	1.36	0.00	0.00
6.65	0.81	0.00	0.00	9.25	1.38	0.00	0.00
6.70	0.82	0.00	0.00	9.30	1.39	0.00	0.00
6.75	0.83	0.00	0.00	9.35	1.41	0.00	0.00
6.80	0.84	0.00	0.00	9.40	1.42	0.00	0.00
6.85	0.85	0.00	0.00	9.45	1.44	0.00	0.00
6.90	0.85	0.00	0.00	9.50	1.45	0.00	0.00
6.95	0.86	0.00	0.00	9.55	1.47	0.00	0.00
7.00	0.87	0.00	0.00	9.60	1.49	0.00	0.00
7.05	0.88	0.00	0.00	9.65	1.50	0.00	0.00
7.10	0.89	0.00	0.00	9.70	1.52	0.00	0.00
7.15	0.90	0.00	0.00	9.75	1.54	0.00	0.00
7.20	0.91	0.00	0.00	9.80	1.56	0.00	0.00
7.25	0.92	0.00	0.00	9.85	1.57	0.00	0.00
7.30	0.93	0.00	0.00	9.90	1.59	0.00	0.00
7.35	0.94	0.00	0.00	9.95	1.61	0.00	0.00
7.40	0.95	0.00	0.00	10.00	1.63	0.00	0.00
7.45	0.96	0.00	0.00	10.05	1.65	0.00	0.00
7.50	0.97	0.00	0.00	10.10	1.67	0.00	0.00
7.55	0.98	0.00	0.00	10.15	1.69	0.00	0.00
7.60	0.99	0.00	0.00	10.20	1.71	0.00	0.00
7.65	1.00	0.00	0.00	10.25	1.73	0.00	0.00
7.70	1.01	0.00	0.00	10.30	1.76	0.00	0.00
7.75	1.02	0.00	0.00	10.35	1.78	0.00	0.00

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.80	0.00	0.00	13.00	6.80	1.82	0.20
10.45	1.82	0.00	0.00	13.05	6.84	1.84	0.19
10.50	1.84	0.00	0.00	13.10	6.87	1.86	0.18
10.55	1.87	0.00	0.00	13.15	6.91	1.88	0.17
10.60	1.89	0.00	0.00	13.20	6.94	1.90	0.16
10.65	1.92	0.00	0.00	13.25	6.97	1.92	0.16
10.70	1.95	0.00	0.00	13.30	7.00	1.94	0.15
10.75	1.98	0.00	0.01	13.35	7.03	1.95	0.15
10.80	2.01	0.01	0.01	13.40	7.06	1.97	0.14
10.85	2.04	0.01	0.01	13.45	7.08	1.99	0.13
10.90	2.08	0.01	0.01	13.50	7.11	2.00	0.13
10.95	2.11	0.01	0.01	13.55	7.13	2.02	0.12
11.00	2.15	0.02	0.02	13.60	7.15	2.03	0.12
11.05	2.19	0.02	0.02	13.65	7.17	2.04	0.11
11.10	2.23	0.02	0.02	13.70	7.19	2.06	0.11
11.15	2.27	0.03	0.02	13.75	7.22	2.07	0.11
11.20	2.32	0.03	0.03	13.80	7.24	2.08	0.10
11.25	2.37	0.04	0.03	13.85	7.26	2.10	0.10
11.30	2.42	0.04	0.04	13.90	7.28	2.11	0.10
11.35	2.47	0.05	0.04	13.95	7.30	2.12	0.10
11.40	2.53	0.06	0.05	14.00	7.32	2.13	0.10
11.45	2.59	0.07	0.05	14.05	7.34	2.14	0.10
11.50	2.64	0.08	0.06	14.10	7.36	2.16	0.09
11.55	2.74	0.09	0.07	14.15	7.38	2.17	0.09
11.60	2.83	0.11	0.09	14.20	7.39	2.18	0.09
11.65	2.92	0.13	0.11	14.25	7.41	2.19	0.09
11.70	3.02	0.15	0.13	14.30	7.43	2.20	0.09
11.75	3.15	0.18	0.15	14.35	7.45	2.21	0.09
11.80	3.28	0.22	0.18	14.40	7.46	2.22	0.09
11.85	3.46	0.27	0.23	14.45	7.48	2.23	0.08
11.90	3.64	0.32	0.29	14.50	7.50	2.25	0.08
11.95	3.95	0.43	0.38	14.55	7.51	2.26	0.08
12.00	4.27	0.55	0.55	14.60	7.53	2.27	0.08
12.05	4.79	0.76	0.76	14.65	7.54	2.27	0.08
12.10	5.31	1.01	**1.12**	14.70	7.56	2.28	0.08
12.15	5.49	1.10	**1.28**	14.75	7.57	2.29	0.08
12.20	5.67	1.19	1.08	14.80	7.59	2.30	0.07
12.25	5.80	1.26	0.93	14.85	7.60	2.31	0.07
12.30	5.93	1.33	0.78	14.90	7.62	2.32	0.07
12.35	6.03	1.38	0.68	14.95	7.63	2.33	0.07
12.40	6.12	1.43	0.57	15.00	7.64	2.34	0.07
12.45	6.21	1.48	0.50	15.05	7.66	2.35	0.07
12.50	6.31	1.53	0.45	15.10	7.67	2.35	0.06
12.55	6.36	1.57	0.41	15.15	7.68	2.36	0.06
12.60	6.42	1.60	0.35	15.20	7.69	2.37	0.06
12.65	6.48	1.63	0.31	15.25	7.70	2.38	0.06
12.70	6.53	1.66	0.28	15.30	7.72	2.38	0.06
12.75	6.58	1.69	0.26	15.35	7.73	2.39	0.06
12.80	6.63	1.72	0.25	15.40	7.74	2.40	0.06
12.85	6.68	1.75	0.23	15.45	7.75	2.41	0.06
12.90	6.72	1.77	0.22	15.50	7.76	2.42	0.06
12.95	6.76	1.80	0.21	15.55	7.78	2.42	0.06

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	7.79	2.43	0.06	18.20	8.27	2.75	0.04
15.65	7.80	2.44	0.06	18.25	8.28	2.75	0.04
15.70	7.81	2.45	0.06	18.30	8.28	2.76	0.04
15.75	7.82	2.45	0.06	18.35	8.29	2.76	0.04
15.80	7.83	2.46	0.06	18.40	8.30	2.77	0.04
15.85	7.84	2.47	0.06	18.45	8.30	2.77	0.04
15.90	7.86	2.47	0.06	18.50	8.31	2.77	0.04
15.95	7.87	2.48	0.06	18.55	8.32	2.78	0.04
16.00	7.88	2.49	0.06	18.60	8.33	2.78	0.04
16.05	7.89	2.50	0.05	18.65	8.33	2.79	0.04
16.10	7.90	2.50	0.05	18.70	8.34	2.79	0.04
16.15	7.91	2.51	0.05	18.75	8.35	2.80	0.04
16.20	7.92	2.52	0.05	18.80	8.35	2.80	0.04
16.25	7.93	2.52	0.05	18.85	8.36	2.81	0.04
16.30	7.94	2.53	0.05	18.90	8.37	2.81	0.04
16.35	7.95	2.54	0.05	18.95	8.37	2.82	0.04
16.40	7.96	2.54	0.05	19.00	8.38	2.82	0.04
16.45	7.97	2.55	0.05	19.05	8.39	2.83	0.04
16.50	7.98	2.56	0.05	19.10	8.39	2.83	0.03
16.55	7.99	2.56	0.05	19.15	8.40	2.83	0.03
16.60	8.00	2.57	0.05	19.20	8.41	2.84	0.03
16.65	8.01	2.58	0.05	19.25	8.41	2.84	0.03
16.70	8.02	2.58	0.05	19.30	8.42	2.85	0.03
16.75	8.03	2.59	0.05	19.35	8.43	2.85	0.03
16.80	8.04	2.59	0.05	19.40	8.43	2.86	0.03
16.85	8.05	2.60	0.05	19.45	8.44	2.86	0.03
16.90	8.06	2.61	0.05	19.50	8.45	2.87	0.03
16.95	8.07	2.61	0.05	19.55	8.45	2.87	0.03
17.00	8.08	2.62	0.05	19.60	8.46	2.87	0.03
17.05	8.09	2.62	0.05	19.65	8.47	2.88	0.03
17.10	8.10	2.63	0.05	19.70	8.47	2.88	0.03
17.15	8.10	2.64	0.05	19.75	8.48	2.89	0.03
17.20	8.11	2.64	0.05	19.80	8.49	2.89	0.03
17.25	8.12	2.65	0.04	19.85	8.49	2.90	0.03
17.30	8.13	2.65	0.04	19.90	8.50	2.90	0.03
17.35	8.14	2.66	0.04	19.95	8.51	2.91	0.03
17.40	8.15	2.66	0.04	20.00	8.51	2.91	0.03
17.45	8.16	2.67	0.04	20.05	8.52	2.91	0.03
17.50	8.16	2.68	0.04	20.10	8.52	2.92	0.03
17.55	8.17	2.68	0.04	20.15	8.53	2.92	0.03
17.60	8.18	2.69	0.04	20.20	8.54	2.93	0.03
17.65	8.19	2.69	0.04	20.25	8.54	2.93	0.03
17.70	8.20	2.70	0.04	20.30	8.55	2.93	0.03
17.75	8.20	2.70	0.04	20.35	8.56	2.94	0.03
17.80	8.21	2.71	0.04	20.40	8.56	2.94	0.03
17.85	8.22	2.71	0.04	20.45	8.57	2.95	0.03
17.90	8.23	2.72	0.04	20.50	8.57	2.95	0.03
17.95	8.23	2.72	0.04	20.55	8.58	2.96	0.03
18.00	8.24	2.73	0.04	20.60	8.59	2.96	0.03
18.05	8.25	2.73	0.04	20.65	8.59	2.96	0.03
18.10	8.26	2.74	0.04	20.70	8.60	2.97	0.03
18.15	8.26	2.74	0.04	20.75	8.60	2.97	0.03

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	8.61	2.98	0.03	23.40	8.89	3.17	0.03
20.85	8.62	2.98	0.03	23.45	8.90	3.17	0.03
20.90	8.62	2.98	0.03	23.50	8.90	3.18	0.03
20.95	8.63	2.99	0.03	23.55	8.91	3.18	0.03
21.00	8.63	2.99	0.03	23.60	8.91	3.18	0.03
21.05	8.64	3.00	0.03	23.65	8.92	3.19	0.03
21.10	8.65	3.00	0.03	23.70	8.92	3.19	0.03
21.15	8.65	3.00	0.03	23.75	8.92	3.19	0.03
21.20	8.66	3.01	0.03	23.80	8.93	3.20	0.03
21.25	8.66	3.01	0.03	23.85	8.93	3.20	0.02
21.30	8.67	3.02	0.03	23.90	8.94	3.20	0.02
21.35	8.67	3.02	0.03	23.95	8.94	3.21	0.03
21.40	8.68	3.02	0.03	24.00	**8.95**	**3.21**	0.03
21.45	8.69	3.03	0.03				
21.50	8.69	3.03	0.03				
21.55	8.70	3.04	0.03				
21.60	8.70	3.04	0.03				
21.65	8.71	3.04	0.03				
21.70	8.71	3.05	0.03				
21.75	8.72	3.05	0.03				
21.80	8.73	3.06	0.03				
21.85	8.73	3.06	0.03				
21.90	8.74	3.06	0.03				
21.95	8.74	3.07	0.03				
22.00	8.75	3.07	0.03				
22.05	8.75	3.07	0.03				
22.10	8.76	3.08	0.03				
22.15	8.76	3.08	0.03				
22.20	8.77	3.09	0.03				
22.25	8.77	3.09	0.03				
22.30	8.78	3.09	0.03				
22.35	8.79	3.10	0.03				
22.40	8.79	3.10	0.03				
22.45	8.80	3.10	0.03				
22.50	8.80	3.11	0.03				
22.55	8.81	3.11	0.03				
22.60	8.81	3.11	0.03				
22.65	8.82	3.12	0.03				
22.70	8.82	3.12	0.03				
22.75	8.83	3.12	0.03				
22.80	8.83	3.13	0.03				
22.85	8.84	3.13	0.03				
22.90	8.84	3.14	0.03				
22.95	8.85	3.14	0.03				
23.00	8.85	3.14	0.03				
23.05	8.86	3.15	0.03				
23.10	8.86	3.15	0.03				
23.15	8.87	3.15	0.03				
23.20	8.87	3.16	0.03				
23.25	8.88	3.16	0.03				
23.30	8.88	3.16	0.03				
23.35	8.89	3.17	0.03				

Summary for Subcatchment EDA1A IMP: EDA1A IMP

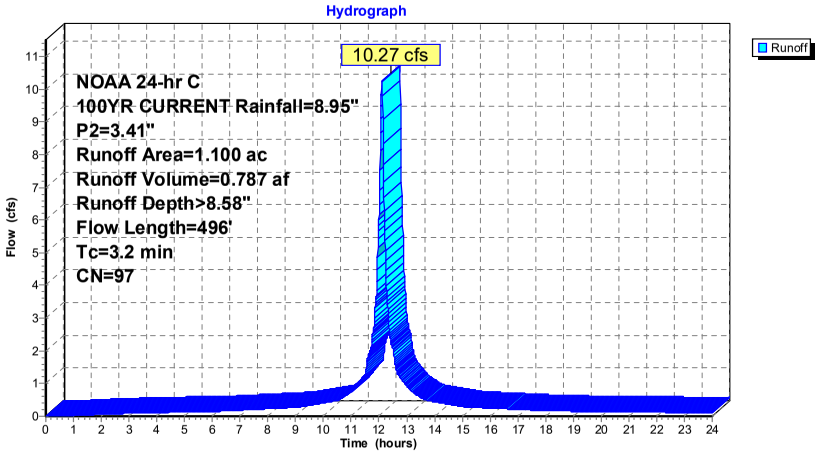
Runoff = 10.27 cfs @ 12.11 hrs, Volume= 0.787 af, Depth> 8.58"
Routed to Link E1A : E1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR CURRENT Rainfall=8.95", P2=3.41"

	Area (ac)	CN	Description
	0.350	96	Gravel surface, HSG D
*	0.570	98	Impervious vehicular
*	0.180	98	Impervious non vehicular
	1.100	97	Weighted Average
	0.350		31.82% Pervious Area
	0.750		68.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	100	0.0100	1.08		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
3.2	496	Total			

Subcatchment EDA1A IMP: EDA1A IMP



Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.27	0.08	0.08
0.05	0.01	0.00	0.00	2.65	0.28	0.09	0.08
0.10	0.01	0.00	0.00	2.70	0.28	0.09	0.08
0.15	0.02	0.00	0.00	2.75	0.29	0.09	0.08
0.20	0.02	0.00	0.00	2.80	0.29	0.10	0.08
0.25	0.03	0.00	0.00	2.85	0.30	0.10	0.09
0.30	0.03	0.00	0.00	2.90	0.30	0.11	0.09
0.35	0.03	0.00	0.00	2.95	0.31	0.11	0.09
0.40	0.04	0.00	0.00	3.00	0.32	0.11	0.09
0.45	0.04	0.00	0.00	3.05	0.32	0.12	0.09
0.50	0.05	0.00	0.00	3.10	0.33	0.12	0.09
0.55	0.05	0.00	0.00	3.15	0.33	0.13	0.09
0.60	0.06	0.00	0.00	3.20	0.34	0.13	0.09
0.65	0.06	0.00	0.00	3.25	0.35	0.14	0.10
0.70	0.07	0.00	0.00	3.30	0.35	0.14	0.10
0.75	0.07	0.00	0.00	3.35	0.36	0.14	0.10
0.80	0.08	0.00	0.01	3.40	0.36	0.15	0.10
0.85	0.08	0.00	0.01	3.45	0.37	0.15	0.10
0.90	0.09	0.00	0.01	3.50	0.38	0.16	0.10
0.95	0.09	0.00	0.01	3.55	0.38	0.16	0.10
1.00	0.10	0.00	0.02	3.60	0.39	0.17	0.10
1.05	0.10	0.00	0.02	3.65	0.39	0.17	0.10
1.10	0.11	0.01	0.02	3.70	0.40	0.18	0.10
1.15	0.11	0.01	0.03	3.75	0.41	0.18	0.11
1.20	0.12	0.01	0.03	3.80	0.41	0.19	0.11
1.25	0.12	0.01	0.03	3.85	0.42	0.19	0.11
1.30	0.13	0.01	0.03	3.90	0.43	0.20	0.11
1.35	0.13	0.01	0.04	3.95	0.43	0.20	0.11
1.40	0.14	0.02	0.04	4.00	0.44	0.21	0.11
1.45	0.14	0.02	0.04	4.05	0.44	0.21	0.11
1.50	0.15	0.02	0.04	4.10	0.45	0.22	0.11
1.55	0.15	0.02	0.04	4.15	0.46	0.22	0.11
1.60	0.16	0.02	0.05	4.20	0.46	0.23	0.11
1.65	0.16	0.03	0.05	4.25	0.47	0.23	0.12
1.70	0.17	0.03	0.05	4.30	0.48	0.24	0.12
1.75	0.18	0.03	0.05	4.35	0.48	0.24	0.12
1.80	0.18	0.03	0.05	4.40	0.49	0.25	0.12
1.85	0.19	0.04	0.06	4.45	0.50	0.25	0.12
1.90	0.19	0.04	0.06	4.50	0.50	0.26	0.12
1.95	0.20	0.04	0.06	4.55	0.51	0.26	0.12
2.00	0.20	0.04	0.06	4.60	0.52	0.27	0.12
2.05	0.21	0.05	0.06	4.65	0.52	0.28	0.12
2.10	0.21	0.05	0.06	4.70	0.53	0.28	0.12
2.15	0.22	0.05	0.07	4.75	0.54	0.29	0.12
2.20	0.22	0.06	0.07	4.80	0.54	0.29	0.12
2.25	0.23	0.06	0.07	4.85	0.55	0.30	0.13
2.30	0.24	0.06	0.07	4.90	0.56	0.30	0.13
2.35	0.24	0.07	0.07	4.95	0.56	0.31	0.13
2.40	0.25	0.07	0.07	5.00	0.57	0.32	0.13
2.45	0.25	0.07	0.07	5.05	0.58	0.32	0.13
2.50	0.26	0.08	0.08	5.10	0.58	0.33	0.13
2.55	0.26	0.08	0.08	5.15	0.59	0.33	0.13

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.60	0.34	0.13	7.80	1.03	0.73	0.22
5.25	0.60	0.34	0.13	7.85	1.04	0.74	0.22
5.30	0.61	0.35	0.13	7.90	1.05	0.75	0.22
5.35	0.62	0.36	0.13	7.95	1.06	0.76	0.22
5.40	0.62	0.36	0.13	8.00	1.07	0.77	0.22
5.45	0.63	0.37	0.13	8.05	1.08	0.78	0.23
5.50	0.64	0.38	0.14	8.10	1.09	0.79	0.23
5.55	0.65	0.38	0.14	8.15	1.11	0.80	0.23
5.60	0.65	0.39	0.14	8.20	1.12	0.82	0.23
5.65	0.66	0.39	0.14	8.25	1.13	0.83	0.23
5.70	0.67	0.40	0.14	8.30	1.14	0.84	0.24
5.75	0.67	0.41	0.14	8.35	1.15	0.85	0.24
5.80	0.68	0.41	0.14	8.40	1.16	0.86	0.24
5.85	0.69	0.42	0.14	8.45	1.17	0.87	0.24
5.90	0.69	0.43	0.14	8.50	1.19	0.88	0.25
5.95	0.70	0.43	0.14	8.55	1.20	0.89	0.25
6.00	0.71	0.44	0.14	8.60	1.21	0.90	0.25
6.05	0.72	0.44	0.14	8.65	1.22	0.91	0.25
6.10	0.72	0.45	0.15	8.70	1.23	0.93	0.25
6.15	0.73	0.46	0.15	8.75	1.25	0.94	0.26
6.20	0.74	0.46	0.15	8.80	1.26	0.95	0.26
6.25	0.75	0.47	0.15	8.85	1.27	0.96	0.26
6.30	0.75	0.48	0.15	8.90	1.28	0.97	0.26
6.35	0.76	0.49	0.16	8.95	1.29	0.99	0.26
6.40	0.77	0.49	0.16	9.00	1.31	1.00	0.27
6.45	0.78	0.50	0.16	9.05	1.32	1.01	0.27
6.50	0.79	0.51	0.16	9.10	1.33	1.02	0.28
6.55	0.79	0.52	0.16	9.15	1.35	1.04	0.28
6.60	0.80	0.52	0.17	9.20	1.36	1.05	0.29
6.65	0.81	0.53	0.17	9.25	1.38	1.06	0.30
6.70	0.82	0.54	0.17	9.30	1.39	1.08	0.31
6.75	0.83	0.55	0.17	9.35	1.41	1.09	0.31
6.80	0.84	0.55	0.17	9.40	1.42	1.11	0.32
6.85	0.85	0.56	0.18	9.45	1.44	1.12	0.33
6.90	0.85	0.57	0.18	9.50	1.45	1.14	0.34
6.95	0.86	0.58	0.18	9.55	1.47	1.15	0.34
7.00	0.87	0.59	0.18	9.60	1.49	1.17	0.35
7.05	0.88	0.60	0.18	9.65	1.50	1.19	0.36
7.10	0.89	0.60	0.19	9.70	1.52	1.20	0.37
7.15	0.90	0.61	0.19	9.75	1.54	1.22	0.37
7.20	0.91	0.62	0.19	9.80	1.56	1.24	0.38
7.25	0.92	0.63	0.19	9.85	1.57	1.26	0.39
7.30	0.93	0.64	0.19	9.90	1.59	1.27	0.40
7.35	0.94	0.65	0.20	9.95	1.61	1.29	0.40
7.40	0.95	0.66	0.20	10.00	1.63	1.31	0.41
7.45	0.96	0.67	0.20	10.05	1.65	1.33	0.42
7.50	0.97	0.68	0.20	10.10	1.67	1.35	0.43
7.55	0.98	0.69	0.21	10.15	1.69	1.37	0.43
7.60	0.99	0.69	0.21	10.20	1.71	1.39	0.44
7.65	1.00	0.70	0.21	10.25	1.73	1.41	0.45
7.70	1.01	0.71	0.21	10.30	1.76	1.43	0.46
7.75	1.02	0.72	0.21	10.35	1.78	1.45	0.46

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.80	1.47	0.47	13.00	6.80	6.44	0.93
10.45	1.82	1.50	0.48	13.05	6.84	6.48	0.87
10.50	1.84	1.52	0.49	13.10	6.87	6.52	0.82
10.55	1.87	1.54	0.51	13.15	6.91	6.55	0.78
10.60	1.89	1.57	0.53	13.20	6.94	6.58	0.75
10.65	1.92	1.60	0.56	13.25	6.97	6.61	0.72
10.70	1.95	1.62	0.58	13.30	7.00	6.64	0.69
10.75	1.98	1.65	0.62	13.35	7.03	6.67	0.66
10.80	2.01	1.68	0.64	13.40	7.06	6.70	0.63
10.85	2.04	1.71	0.67	13.45	7.08	6.72	0.60
10.90	2.08	1.75	0.70	13.50	7.11	6.75	0.58
10.95	2.11	1.78	0.73	13.55	7.13	6.77	0.55
11.00	2.15	1.82	0.75	13.60	7.15	6.79	0.52
11.05	2.19	1.86	0.80	13.65	7.17	6.81	0.50
11.10	2.23	1.90	0.85	13.70	7.19	6.84	0.49
11.15	2.27	1.94	0.90	13.75	7.22	6.86	0.48
11.20	2.32	1.98	0.95	13.80	7.24	6.88	0.48
11.25	2.37	2.03	1.01	13.85	7.26	6.90	0.47
11.30	2.42	2.08	1.06	13.90	7.28	6.92	0.46
11.35	2.47	2.14	1.11	13.95	7.30	6.94	0.45
11.40	2.53	2.19	1.16	14.00	7.32	6.96	0.45
11.45	2.59	2.25	1.21	14.05	7.34	6.98	0.44
11.50	2.64	2.31	1.25	14.10	7.36	7.00	0.43
11.55	2.74	2.40	1.51	14.15	7.38	7.02	0.42
11.60	2.83	2.49	1.78	14.20	7.39	7.04	0.42
11.65	2.92	2.58	1.94	14.25	7.41	7.05	0.41
11.70	3.02	2.67	2.03	14.30	7.43	7.07	0.40
11.75	3.15	2.80	2.34	14.35	7.45	7.09	0.39
11.80	3.28	2.93	2.64	14.40	7.46	7.11	0.39
11.85	3.46	3.11	3.16	14.45	7.48	7.12	0.38
11.90	3.64	3.29	3.64	14.50	7.50	7.14	0.37
11.95	3.95	3.60	4.85	14.55	7.51	7.15	0.36
12.00	4.27	3.92	6.02	14.60	7.53	7.17	0.36
12.05	4.79	4.44	8.14	14.65	7.54	7.19	0.35
12.10	5.31	4.96	**10.08**	14.70	7.56	7.20	0.34
12.15	5.49	5.14	**8.35**	14.75	7.57	7.22	0.33
12.20	5.67	5.32	5.95	14.80	7.59	7.23	0.33
12.25	5.80	5.45	4.46	14.85	7.60	7.24	0.32
12.30	5.93	5.58	3.52	14.90	7.62	7.26	0.31
12.35	6.03	5.67	2.86	14.95	7.63	7.27	0.30
12.40	6.12	5.77	2.41	15.00	7.64	7.28	0.30
12.45	6.21	5.86	2.18	15.05	7.66	7.30	0.29
12.50	6.31	5.95	2.07	15.10	7.67	7.31	0.28
12.55	6.36	6.01	1.78	15.15	7.68	7.32	0.28
12.60	6.42	6.07	1.50	15.20	7.69	7.33	0.28
12.65	6.48	6.12	1.35	15.25	7.70	7.35	0.27
12.70	6.53	6.17	1.27	15.30	7.72	7.36	0.27
12.75	6.58	6.22	1.19	15.35	7.73	7.37	0.27
12.80	6.63	6.27	1.14	15.40	7.74	7.38	0.27
12.85	6.68	6.32	1.08	15.45	7.75	7.39	0.27
12.90	6.72	6.36	1.03	15.50	7.76	7.41	0.26
12.95	6.76	6.40	0.98	15.55	7.78	7.42	0.26

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	7.79	7.43	0.26	18.20	8.27	7.91	0.16
15.65	7.80	7.44	0.26	18.25	8.28	7.92	0.16
15.70	7.81	7.45	0.26	18.30	8.28	7.92	0.16
15.75	7.82	7.46	0.25	18.35	8.29	7.93	0.16
15.80	7.83	7.47	0.25	18.40	8.30	7.94	0.16
15.85	7.84	7.49	0.25	18.45	8.30	7.94	0.16
15.90	7.86	7.50	0.25	18.50	8.31	7.95	0.16
15.95	7.87	7.51	0.25	18.55	8.32	7.96	0.16
16.00	7.88	7.52	0.24	18.60	8.33	7.97	0.15
16.05	7.89	7.53	0.24	18.65	8.33	7.97	0.15
16.10	7.90	7.54	0.24	18.70	8.34	7.98	0.15
16.15	7.91	7.55	0.24	18.75	8.35	7.99	0.15
16.20	7.92	7.56	0.24	18.80	8.35	7.99	0.15
16.25	7.93	7.57	0.23	18.85	8.36	8.00	0.15
16.30	7.94	7.58	0.23	18.90	8.37	8.01	0.15
16.35	7.95	7.59	0.23	18.95	8.37	8.01	0.15
16.40	7.96	7.60	0.23	19.00	8.38	8.02	0.15
16.45	7.97	7.61	0.23	19.05	8.39	8.03	0.15
16.50	7.98	7.62	0.22	19.10	8.39	8.03	0.15
16.55	7.99	7.63	0.22	19.15	8.40	8.04	0.15
16.60	8.00	7.64	0.22	19.20	8.41	8.05	0.15
16.65	8.01	7.65	0.22	19.25	8.41	8.05	0.15
16.70	8.02	7.66	0.22	19.30	8.42	8.06	0.15
16.75	8.03	7.67	0.21	19.35	8.43	8.07	0.15
16.80	8.04	7.68	0.21	19.40	8.43	8.07	0.15
16.85	8.05	7.69	0.21	19.45	8.44	8.08	0.15
16.90	8.06	7.70	0.21	19.50	8.45	8.09	0.15
16.95	8.07	7.71	0.21	19.55	8.45	8.09	0.15
17.00	8.08	7.72	0.20	19.60	8.46	8.10	0.15
17.05	8.09	7.73	0.20	19.65	8.47	8.11	0.14
17.10	8.10	7.74	0.20	19.70	8.47	8.11	0.14
17.15	8.10	7.74	0.20	19.75	8.48	8.12	0.14
17.20	8.11	7.75	0.20	19.80	8.49	8.13	0.14
17.25	8.12	7.76	0.19	19.85	8.49	8.13	0.14
17.30	8.13	7.77	0.19	19.90	8.50	8.14	0.14
17.35	8.14	7.78	0.19	19.95	8.51	8.15	0.14
17.40	8.15	7.79	0.19	20.00	8.51	8.15	0.14
17.45	8.16	7.80	0.19	20.05	8.52	8.16	0.14
17.50	8.16	7.80	0.18	20.10	8.52	8.16	0.14
17.55	8.17	7.81	0.18	20.15	8.53	8.17	0.14
17.60	8.18	7.82	0.18	20.20	8.54	8.18	0.14
17.65	8.19	7.83	0.18	20.25	8.54	8.18	0.14
17.70	8.20	7.84	0.18	20.30	8.55	8.19	0.14
17.75	8.20	7.84	0.17	20.35	8.56	8.20	0.14
17.80	8.21	7.85	0.17	20.40	8.56	8.20	0.14
17.85	8.22	7.86	0.17	20.45	8.57	8.21	0.14
17.90	8.23	7.87	0.17	20.50	8.57	8.21	0.14
17.95	8.23	7.87	0.17	20.55	8.58	8.22	0.14
18.00	8.24	7.88	0.16	20.60	8.59	8.23	0.14
18.05	8.25	7.89	0.16	20.65	8.59	8.23	0.14
18.10	8.26	7.90	0.16	20.70	8.60	8.24	0.13
18.15	8.26	7.90	0.16	20.75	8.60	8.24	0.13

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	8.61	8.25	0.13	23.40	8.89	8.53	0.11
20.85	8.62	8.26	0.13	23.45	8.90	8.54	0.11
20.90	8.62	8.26	0.13	23.50	8.90	8.54	0.11
20.95	8.63	8.27	0.13	23.55	8.91	8.55	0.11
21.00	8.63	8.27	0.13	23.60	8.91	8.55	0.11
21.05	8.64	8.28	0.13	23.65	8.92	8.55	0.11
21.10	8.65	8.29	0.13	23.70	8.92	8.56	0.11
21.15	8.65	8.29	0.13	23.75	8.92	8.56	0.10
21.20	8.66	8.30	0.13	23.80	8.93	8.57	0.10
21.25	8.66	8.30	0.13	23.85	8.93	8.57	0.10
21.30	8.67	8.31	0.13	23.90	8.94	8.58	0.10
21.35	8.67	8.31	0.13	23.95	8.94	8.58	0.11
21.40	8.68	8.32	0.13	24.00	**8.95**	**8.59**	0.12
21.45	8.69	8.33	0.13				
21.50	8.69	8.33	0.13				
21.55	8.70	8.34	0.13				
21.60	8.70	8.34	0.13				
21.65	8.71	8.35	0.12				
21.70	8.71	8.35	0.12				
21.75	8.72	8.36	0.12				
21.80	8.73	8.37	0.12				
21.85	8.73	8.37	0.12				
21.90	8.74	8.38	0.12				
21.95	8.74	8.38	0.12				
22.00	8.75	8.39	0.12				
22.05	8.75	8.39	0.12				
22.10	8.76	8.40	0.12				
22.15	8.76	8.40	0.12				
22.20	8.77	8.41	0.12				
22.25	8.77	8.41	0.12				
22.30	8.78	8.42	0.12				
22.35	8.79	8.42	0.12				
22.40	8.79	8.43	0.12				
22.45	8.80	8.44	0.12				
22.50	8.80	8.44	0.12				
22.55	8.81	8.45	0.12				
22.60	8.81	8.45	0.12				
22.65	8.82	8.46	0.12				
22.70	8.82	8.46	0.11				
22.75	8.83	8.47	0.11				
22.80	8.83	8.47	0.11				
22.85	8.84	8.48	0.11				
22.90	8.84	8.48	0.11				
22.95	8.85	8.49	0.11				
23.00	8.85	8.49	0.11				
23.05	8.86	8.50	0.11				
23.10	8.86	8.50	0.11				
23.15	8.87	8.51	0.11				
23.20	8.87	8.51	0.11				
23.25	8.88	8.52	0.11				
23.30	8.88	8.52	0.11				
23.35	8.89	8.53	0.11				

Summary for Subcatchment EDA1A PERV: EDA-1A PERV

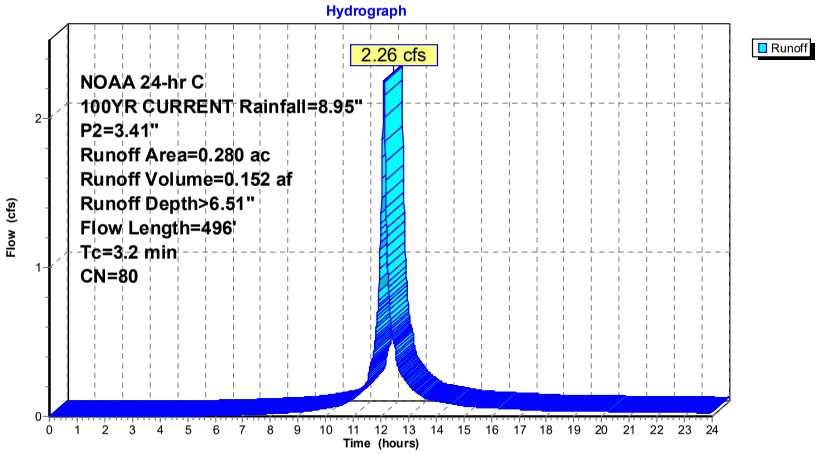
Runoff = 2.26 cfs @ 12.11 hrs, Volume= 0.152 af, Depth> 6.51"
Routed to Link E1A : E1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR CURRENT Rainfall=8.95", P2=3.41"

Area (ac)	CN	Description
0.280	80	>75% Grass cover, Good, HSG D
0.280		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	100	0.0100	1.08		**Sheet Flow, paved** Smooth surfaces n= 0.011 P2= 3.41"
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP-2 Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
3.2	496	Total			

Subcatchment EDA1A PERV: EDA-1A PERV



Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.27	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.28	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.28	0.00	0.00
0.15	0.02	0.00	0.00	2.75	0.29	0.00	0.00
0.20	0.02	0.00	0.00	2.80	0.29	0.00	0.00
0.25	0.03	0.00	0.00	2.85	0.30	0.00	0.00
0.30	0.03	0.00	0.00	2.90	0.30	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.31	0.00	0.00
0.40	0.04	0.00	0.00	3.00	0.32	0.00	0.00
0.45	0.04	0.00	0.00	3.05	0.32	0.00	0.00
0.50	0.05	0.00	0.00	3.10	0.33	0.00	0.00
0.55	0.05	0.00	0.00	3.15	0.33	0.00	0.00
0.60	0.06	0.00	0.00	3.20	0.34	0.00	0.00
0.65	0.06	0.00	0.00	3.25	0.35	0.00	0.00
0.70	0.07	0.00	0.00	3.30	0.35	0.00	0.00
0.75	0.07	0.00	0.00	3.35	0.36	0.00	0.00
0.80	0.08	0.00	0.00	3.40	0.36	0.00	0.00
0.85	0.08	0.00	0.00	3.45	0.37	0.00	0.00
0.90	0.09	0.00	0.00	3.50	0.38	0.00	0.00
0.95	0.09	0.00	0.00	3.55	0.38	0.00	0.00
1.00	0.10	0.00	0.00	3.60	0.39	0.00	0.00
1.05	0.10	0.00	0.00	3.65	0.39	0.00	0.00
1.10	0.11	0.00	0.00	3.70	0.40	0.00	0.00
1.15	0.11	0.00	0.00	3.75	0.41	0.00	0.00
1.20	0.12	0.00	0.00	3.80	0.41	0.00	0.00
1.25	0.12	0.00	0.00	3.85	0.42	0.00	0.00
1.30	0.13	0.00	0.00	3.90	0.43	0.00	0.00
1.35	0.13	0.00	0.00	3.95	0.43	0.00	0.00
1.40	0.14	0.00	0.00	4.00	0.44	0.00	0.00
1.45	0.14	0.00	0.00	4.05	0.44	0.00	0.00
1.50	0.15	0.00	0.00	4.10	0.45	0.00	0.00
1.55	0.15	0.00	0.00	4.15	0.46	0.00	0.00
1.60	0.16	0.00	0.00	4.20	0.46	0.00	0.00
1.65	0.16	0.00	0.00	4.25	0.47	0.00	0.00
1.70	0.17	0.00	0.00	4.30	0.48	0.00	0.00
1.75	0.18	0.00	0.00	4.35	0.48	0.00	0.00
1.80	0.18	0.00	0.00	4.40	0.49	0.00	0.00
1.85	0.19	0.00	0.00	4.45	0.50	0.00	0.00
1.90	0.19	0.00	0.00	4.50	0.50	0.00	0.00
1.95	0.20	0.00	0.00	4.55	0.51	0.00	0.00
2.00	0.20	0.00	0.00	4.60	0.52	0.00	0.00
2.05	0.21	0.00	0.00	4.65	0.52	0.00	0.00
2.10	0.21	0.00	0.00	4.70	0.53	0.00	0.00
2.15	0.22	0.00	0.00	4.75	0.54	0.00	0.00
2.20	0.22	0.00	0.00	4.80	0.54	0.00	0.00
2.25	0.23	0.00	0.00	4.85	0.55	0.00	0.00
2.30	0.24	0.00	0.00	4.90	0.56	0.00	0.00
2.35	0.24	0.00	0.00	4.95	0.56	0.00	0.00
2.40	0.25	0.00	0.00	5.00	0.57	0.00	0.00
2.45	0.25	0.00	0.00	5.05	0.58	0.00	0.00
2.50	0.26	0.00	0.00	5.10	0.58	0.00	0.00
2.55	0.26	0.00	0.00	5.15	0.59	0.00	0.00

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.60	0.00	0.00	7.80	1.03	0.09	0.02
5.25	0.60	0.00	0.00	7.85	1.04	0.10	0.02
5.30	0.61	0.00	0.00	7.90	1.05	0.10	0.02
5.35	0.62	0.01	0.00	7.95	1.06	0.10	0.02
5.40	0.62	0.01	0.00	8.00	1.07	0.11	0.02
5.45	0.63	0.01	0.00	8.05	1.08	0.11	0.02
5.50	0.64	0.01	0.00	8.10	1.09	0.11	0.02
5.55	0.65	0.01	0.00	8.15	1.11	0.12	0.02
5.60	0.65	0.01	0.00	8.20	1.12	0.12	0.02
5.65	0.66	0.01	0.00	8.25	1.13	0.13	0.02
5.70	0.67	0.01	0.00	8.30	1.14	0.13	0.02
5.75	0.67	0.01	0.00	8.35	1.15	0.13	0.02
5.80	0.68	0.01	0.00	8.40	1.16	0.14	0.02
5.85	0.69	0.01	0.01	8.45	1.17	0.14	0.02
5.90	0.69	0.01	0.01	8.50	1.19	0.15	0.02
5.95	0.70	0.02	0.01	8.55	1.20	0.15	0.03
6.00	0.71	0.02	0.01	8.60	1.21	0.16	0.03
6.05	0.72	0.02	0.01	8.65	1.22	0.16	0.03
6.10	0.72	0.02	0.01	8.70	1.23	0.17	0.03
6.15	0.73	0.02	0.01	8.75	1.25	0.17	0.03
6.20	0.74	0.02	0.01	8.80	1.26	0.18	0.03
6.25	0.75	0.02	0.01	8.85	1.27	0.18	0.03
6.30	0.75	0.02	0.01	8.90	1.28	0.19	0.03
6.35	0.76	0.02	0.01	8.95	1.29	0.19	0.03
6.40	0.77	0.03	0.01	9.00	1.31	0.20	0.03
6.45	0.78	0.03	0.01	9.05	1.32	0.20	0.03
6.50	0.79	0.03	0.01	9.10	1.33	0.21	0.03
6.55	0.79	0.03	0.01	9.15	1.35	0.21	0.03
6.60	0.80	0.03	0.01	9.20	1.36	0.22	0.03
6.65	0.81	0.03	0.01	9.25	1.38	0.23	0.04
6.70	0.82	0.04	0.01	9.30	1.39	0.23	0.04
6.75	0.83	0.04	0.01	9.35	1.41	0.24	0.04
6.80	0.84	0.04	0.01	9.40	1.42	0.25	0.04
6.85	0.85	0.04	0.01	9.45	1.44	0.26	0.04
6.90	0.85	0.04	0.01	9.50	1.45	0.26	0.04
6.95	0.86	0.05	0.01	9.55	1.47	0.27	0.04
7.00	0.87	0.05	0.01	9.60	1.49	0.28	0.04
7.05	0.88	0.05	0.01	9.65	1.50	0.29	0.05
7.10	0.89	0.05	0.01	9.70	1.52	0.30	0.05
7.15	0.90	0.06	0.01	9.75	1.54	0.30	0.05
7.20	0.91	0.06	0.01	9.80	1.56	0.31	0.05
7.25	0.92	0.06	0.01	9.85	1.57	0.32	0.05
7.30	0.93	0.06	0.01	9.90	1.59	0.33	0.05
7.35	0.94	0.07	0.01	9.95	1.61	0.34	0.05
7.40	0.95	0.07	0.01	10.00	1.63	0.35	0.06
7.45	0.96	0.07	0.02	10.05	1.65	0.36	0.06
7.50	0.97	0.07	0.02	10.10	1.67	0.37	0.06
7.55	0.98	0.08	0.02	10.15	1.69	0.39	0.06
7.60	0.99	0.08	0.02	10.20	1.71	0.40	0.06
7.65	1.00	0.08	0.02	10.25	1.73	0.41	0.06
7.70	1.01	0.09	0.02	10.30	1.76	0.42	0.07
7.75	1.02	0.09	0.02	10.35	1.78	0.43	0.07

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.80	0.44	0.07	13.00	6.80	4.51	0.22
10.45	1.82	0.46	0.07	13.05	6.84	4.54	0.20
10.50	1.84	0.47	0.07	13.10	6.87	4.58	0.19
10.55	1.87	0.48	0.08	13.15	6.91	4.61	0.18
10.60	1.89	0.50	0.08	13.20	6.94	4.64	0.18
10.65	1.92	0.52	0.09	13.25	6.97	4.67	0.17
10.70	1.95	0.53	0.09	13.30	7.00	4.69	0.16
10.75	1.98	0.55	0.10	13.35	7.03	4.72	0.16
10.80	2.01	0.57	0.10	13.40	7.06	4.75	0.15
10.85	2.04	0.59	0.11	13.45	7.08	4.77	0.14
10.90	2.08	0.61	0.11	13.50	7.11	4.79	0.14
10.95	2.11	0.63	0.12	13.55	7.13	4.81	0.13
11.00	2.15	0.65	0.12	13.60	7.15	4.83	0.12
11.05	2.19	0.68	0.13	13.65	7.17	4.85	0.12
11.10	2.23	0.71	0.14	13.70	7.19	4.87	0.12
11.15	2.27	0.74	0.15	13.75	7.22	4.89	0.11
11.20	2.32	0.77	0.16	13.80	7.24	4.91	0.11
11.25	2.37	0.80	0.17	13.85	7.26	4.93	0.11
11.30	2.42	0.83	0.18	13.90	7.28	4.95	0.11
11.35	2.47	0.87	0.19	13.95	7.30	4.97	0.11
11.40	2.53	0.91	0.20	14.00	7.32	4.99	0.11
11.45	2.59	0.95	0.22	14.05	7.34	5.01	0.10
11.50	2.64	0.99	0.23	14.10	7.36	5.02	0.10
11.55	2.74	1.06	0.28	14.15	7.38	5.04	0.10
11.60	2.83	1.12	0.33	14.20	7.39	5.06	0.10
11.65	2.92	1.19	0.36	14.25	7.41	5.08	0.10
11.70	3.02	1.26	0.38	14.30	7.43	5.09	0.10
11.75	3.15	1.36	0.45	14.35	7.45	5.11	0.09
11.80	3.28	1.46	0.51	14.40	7.46	5.12	0.09
11.85	3.46	1.60	0.63	14.45	7.48	5.14	0.09
11.90	3.64	1.75	0.73	14.50	7.50	5.16	0.09
11.95	3.95	2.00	0.99	14.55	7.51	5.17	0.09
12.00	4.27	2.26	1.26	14.60	7.53	5.18	0.08
12.05	4.79	2.71	1.74	14.65	7.54	5.20	0.08
12.10	5.31	3.17	**2.20**	14.70	7.56	5.21	0.08
12.15	5.49	3.33	**1.85**	14.75	7.57	5.23	0.08
12.20	5.67	3.49	1.33	14.80	7.59	5.24	0.08
12.25	5.80	3.60	1.01	14.85	7.60	5.25	0.08
12.30	5.93	3.72	0.80	14.90	7.62	5.27	0.07
12.35	6.03	3.81	0.65	14.95	7.63	5.28	0.07
12.40	6.12	3.89	0.55	15.00	7.64	5.29	0.07
12.45	6.21	3.98	0.50	15.05	7.66	5.30	0.07
12.50	6.31	4.06	0.48	15.10	7.67	5.31	0.07
12.55	6.36	4.11	0.41	15.15	7.68	5.33	0.07
12.60	6.42	4.16	0.35	15.20	7.69	5.34	0.07
12.65	6.48	4.21	0.31	15.25	7.70	5.35	0.06
12.70	6.53	4.26	0.29	15.30	7.72	5.36	0.06
12.75	6.58	4.31	0.28	15.35	7.73	5.37	0.06
12.80	6.63	4.36	0.27	15.40	7.74	5.38	0.06
12.85	6.68	4.40	0.25	15.45	7.75	5.39	0.06
12.90	6.72	4.44	0.24	15.50	7.76	5.40	0.06
12.95	6.76	4.48	0.23	15.55	7.78	5.42	0.06

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	7.79	5.43	0.06	18.20	8.27	5.88	0.04
15.65	7.80	5.44	0.06	18.25	8.28	5.88	0.04
15.70	7.81	5.45	0.06	18.30	8.28	5.89	0.04
15.75	7.82	5.46	0.06	18.35	8.29	5.90	0.04
15.80	7.83	5.47	0.06	18.40	8.30	5.90	0.04
15.85	7.84	5.48	0.06	18.45	8.30	5.91	0.04
15.90	7.86	5.49	0.06	18.50	8.31	5.92	0.04
15.95	7.87	5.50	0.06	18.55	8.32	5.92	0.04
16.00	7.88	5.51	0.06	18.60	8.33	5.93	0.04
16.05	7.89	5.52	0.06	18.65	8.33	5.94	0.04
16.10	7.90	5.53	0.06	18.70	8.34	5.94	0.04
16.15	7.91	5.54	0.06	18.75	8.35	5.95	0.04
16.20	7.92	5.55	0.06	18.80	8.35	5.96	0.04
16.25	7.93	5.56	0.06	18.85	8.36	5.96	0.04
16.30	7.94	5.57	0.06	18.90	8.37	5.97	0.04
16.35	7.95	5.58	0.05	18.95	8.37	5.98	0.04
16.40	7.96	5.59	0.05	19.00	8.38	5.98	0.04
16.45	7.97	5.60	0.05	19.05	8.39	5.99	0.04
16.50	7.98	5.61	0.05	19.10	8.39	6.00	0.04
16.55	7.99	5.62	0.05	19.15	8.40	6.00	0.04
16.60	8.00	5.63	0.05	19.20	8.41	6.01	0.04
16.65	8.01	5.64	0.05	19.25	8.41	6.01	0.04
16.70	8.02	5.64	0.05	19.30	8.42	6.02	0.04
16.75	8.03	5.65	0.05	19.35	8.43	6.03	0.04
16.80	8.04	5.66	0.05	19.40	8.43	6.03	0.04
16.85	8.05	5.67	0.05	19.45	8.44	6.04	0.04
16.90	8.06	5.68	0.05	19.50	8.45	6.05	0.04
16.95	8.07	5.69	0.05	19.55	8.45	6.05	0.03
17.00	8.08	5.70	0.05	19.60	8.46	6.06	0.03
17.05	8.09	5.71	0.05	19.65	8.47	6.06	0.03
17.10	8.10	5.71	0.05	19.70	8.47	6.07	0.03
17.15	8.10	5.72	0.05	19.75	8.48	6.08	0.03
17.20	8.11	5.73	0.05	19.80	8.49	6.08	0.03
17.25	8.12	5.74	0.05	19.85	8.49	6.09	0.03
17.30	8.13	5.75	0.05	19.90	8.50	6.09	0.03
17.35	8.14	5.75	0.05	19.95	8.51	6.10	0.03
17.40	8.15	5.76	0.05	20.00	8.51	6.11	0.03
17.45	8.16	5.77	0.04	20.05	8.52	6.11	0.03
17.50	8.16	5.78	0.04	20.10	8.52	6.12	0.03
17.55	8.17	5.79	0.04	20.15	8.53	6.12	0.03
17.60	8.18	5.79	0.04	20.20	8.54	6.13	0.03
17.65	8.19	5.80	0.04	20.25	8.54	6.14	0.03
17.70	8.20	5.81	0.04	20.30	8.55	6.14	0.03
17.75	8.20	5.82	0.04	20.35	8.56	6.15	0.03
17.80	8.21	5.82	0.04	20.40	8.56	6.15	0.03
17.85	8.22	5.83	0.04	20.45	8.57	6.16	0.03
17.90	8.23	5.84	0.04	20.50	8.57	6.17	0.03
17.95	8.23	5.84	0.04	20.55	8.58	6.17	0.03
18.00	8.24	5.85	0.04	20.60	8.59	6.18	0.03
18.05	8.25	5.86	0.04	20.65	8.59	6.18	0.03
18.10	8.26	5.86	0.04	20.70	8.60	6.19	0.03
18.15	8.26	5.87	0.04	20.75	8.60	6.19	0.03

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	8.61	6.20	0.03	23.40	8.89	6.47	0.03
20.85	8.62	6.21	0.03	23.45	8.90	6.47	0.03
20.90	8.62	6.21	0.03	23.50	8.90	6.47	0.03
20.95	8.63	6.22	0.03	23.55	8.91	6.48	0.03
21.00	8.63	6.22	0.03	23.60	8.91	6.48	0.03
21.05	8.64	6.23	0.03	23.65	8.92	6.49	0.03
21.10	8.65	6.23	0.03	23.70	8.92	6.49	0.03
21.15	8.65	6.24	0.03	23.75	8.92	6.50	0.03
21.20	8.66	6.24	0.03	23.80	8.93	6.50	0.03
21.25	8.66	6.25	0.03	23.85	8.93	6.51	0.02
21.30	8.67	6.26	0.03	23.90	8.94	6.51	0.02
21.35	8.67	6.26	0.03	23.95	8.94	6.52	0.03
21.40	8.68	6.27	0.03	24.00	**8.95**	**6.52**	0.03
21.45	8.69	6.27	0.03				
21.50	8.69	6.28	0.03				
21.55	8.70	6.28	0.03				
21.60	8.70	6.29	0.03				
21.65	8.71	6.29	0.03				
21.70	8.71	6.30	0.03				
21.75	8.72	6.30	0.03				
21.80	8.73	6.31	0.03				
21.85	8.73	6.31	0.03				
21.90	8.74	6.32	0.03				
21.95	8.74	6.32	0.03				
22.00	8.75	6.33	0.03				
22.05	8.75	6.33	0.03				
22.10	8.76	6.34	0.03				
22.15	8.76	6.34	0.03				
22.20	8.77	6.35	0.03				
22.25	8.77	6.35	0.03				
22.30	8.78	6.36	0.03				
22.35	8.79	6.36	0.03				
22.40	8.79	6.37	0.03				
22.45	8.80	6.37	0.03				
22.50	8.80	6.38	0.03				
22.55	8.81	6.38	0.03				
22.60	8.81	6.39	0.03				
22.65	8.82	6.39	0.03				
22.70	8.82	6.40	0.03				
22.75	8.83	6.40	0.03				
22.80	8.83	6.41	0.03				
22.85	8.84	6.41	0.03				
22.90	8.84	6.42	0.03				
22.95	8.85	6.42	0.03				
23.00	8.85	6.43	0.03				
23.05	8.86	6.43	0.03				
23.10	8.86	6.44	0.03				
23.15	8.87	6.44	0.03				
23.20	8.87	6.45	0.03				
23.25	8.88	6.45	0.03				
23.30	8.88	6.46	0.03				
23.35	8.89	6.46	0.03				

Summary for Subcatchment EDA1B IMP: EDA1B IMP

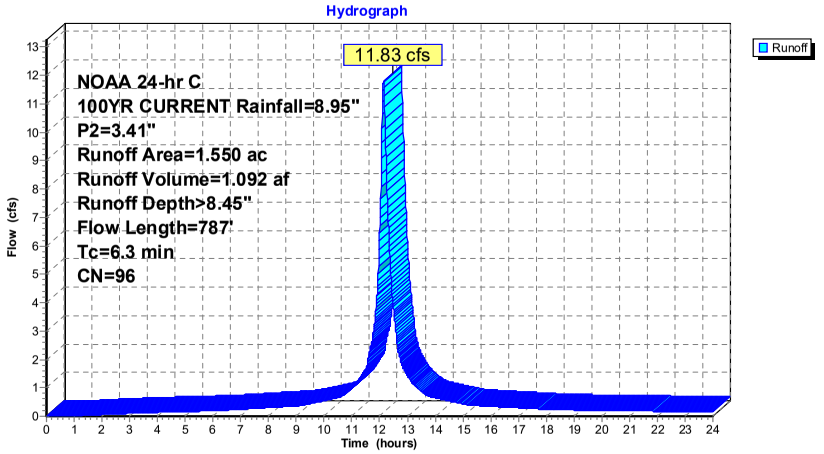
Runoff = 11.83 cfs @ 12.14 hrs, Volume= 1.092 af, Depth> 8.45"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR CURRENT Rainfall=8.95", P2=3.41"

	Area (ac)	CN	Description
	0.940	96	Gravel surface, HSG A
	0.310	96	Gravel surface, HSG D
*	0.190	98	Impervious vehicular
*	0.110	98	Impervious non vehicular
	1.550	96	Weighted Average
	1.250		80.65% Pervious Area
	0.300		19.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	100	0.0100	1.08		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
1.0	93	0.0100	1.50		**Shallow Concentrated Flow, Paved** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.9	93	0.0011	1.71	3.02	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
6.3	787	Total			

Subcatchment EDA1B IMP: EDA1B IMP



Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.27	0.06	0.09
0.05	0.01	0.00	0.00	2.65	0.28	0.06	0.09
0.10	0.01	0.00	0.00	2.70	0.28	0.06	0.09
0.15	0.02	0.00	0.00	2.75	0.29	0.07	0.09
0.20	0.02	0.00	0.00	2.80	0.29	0.07	0.09
0.25	0.03	0.00	0.00	2.85	0.30	0.07	0.10
0.30	0.03	0.00	0.00	2.90	0.30	0.08	0.10
0.35	0.03	0.00	0.00	2.95	0.31	0.08	0.10
0.40	0.04	0.00	0.00	3.00	0.32	0.08	0.10
0.45	0.04	0.00	0.00	3.05	0.32	0.09	0.10
0.50	0.05	0.00	0.00	3.10	0.33	0.09	0.11
0.55	0.05	0.00	0.00	3.15	0.33	0.09	0.11
0.60	0.06	0.00	0.00	3.20	0.34	0.10	0.11
0.65	0.06	0.00	0.00	3.25	0.35	0.10	0.11
0.70	0.07	0.00	0.00	3.30	0.35	0.10	0.11
0.75	0.07	0.00	0.00	3.35	0.36	0.11	0.11
0.80	0.08	0.00	0.00	3.40	0.36	0.11	0.12
0.85	0.08	0.00	0.00	3.45	0.37	0.12	0.12
0.90	0.09	0.00	0.00	3.50	0.38	0.12	0.12
0.95	0.09	0.00	0.00	3.55	0.38	0.12	0.12
1.00	0.10	0.00	0.00	3.60	0.39	0.13	0.12
1.05	0.10	0.00	0.00	3.65	0.39	0.13	0.12
1.10	0.11	0.00	0.01	3.70	0.40	0.14	0.13
1.15	0.11	0.00	0.01	3.75	0.41	0.14	0.13
1.20	0.12	0.00	0.01	3.80	0.41	0.15	0.13
1.25	0.12	0.00	0.02	3.85	0.42	0.15	0.13
1.30	0.13	0.00	0.02	3.90	0.43	0.15	0.13
1.35	0.13	0.01	0.02	3.95	0.43	0.16	0.13
1.40	0.14	0.01	0.03	4.00	0.44	0.16	0.14
1.45	0.14	0.01	0.03	4.05	0.44	0.17	0.14
1.50	0.15	0.01	0.03	4.10	0.45	0.17	0.14
1.55	0.15	0.01	0.03	4.15	0.46	0.18	0.14
1.60	0.16	0.01	0.04	4.20	0.46	0.18	0.14
1.65	0.16	0.01	0.04	4.25	0.47	0.19	0.14
1.70	0.17	0.01	0.04	4.30	0.48	0.19	0.14
1.75	0.18	0.02	0.05	4.35	0.48	0.20	0.15
1.80	0.18	0.02	0.05	4.40	0.49	0.20	0.15
1.85	0.19	0.02	0.05	4.45	0.50	0.21	0.15
1.90	0.19	0.02	0.05	4.50	0.50	0.21	0.15
1.95	0.20	0.02	0.06	4.55	0.51	0.22	0.15
2.00	0.20	0.03	0.06	4.60	0.52	0.22	0.15
2.05	0.21	0.03	0.06	4.65	0.52	0.23	0.15
2.10	0.21	0.03	0.06	4.70	0.53	0.23	0.16
2.15	0.22	0.03	0.07	4.75	0.54	0.24	0.16
2.20	0.22	0.04	0.07	4.80	0.54	0.24	0.16
2.25	0.23	0.04	0.07	4.85	0.55	0.25	0.16
2.30	0.24	0.04	0.07	4.90	0.56	0.25	0.16
2.35	0.24	0.04	0.08	4.95	0.56	0.26	0.16
2.40	0.25	0.05	0.08	5.00	0.57	0.26	0.16
2.45	0.25	0.05	0.08	5.05	0.58	0.27	0.16
2.50	0.26	0.05	0.08	5.10	0.58	0.27	0.17
2.55	0.26	0.05	0.08	5.15	0.59	0.28	0.17

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.60	0.28	0.17	7.80	1.03	0.66	0.29
5.25	0.60	0.29	0.17	7.85	1.04	0.67	0.29
5.30	0.61	0.29	0.17	7.90	1.05	0.68	0.29
5.35	0.62	0.30	0.17	7.95	1.06	0.69	0.30
5.40	0.62	0.31	0.17	8.00	1.07	0.70	0.30
5.45	0.63	0.31	0.17	8.05	1.08	0.71	0.30
5.50	0.64	0.32	0.17	8.10	1.09	0.72	0.31
5.55	0.65	0.32	0.18	8.15	1.11	0.73	0.31
5.60	0.65	0.33	0.18	8.20	1.12	0.74	0.31
5.65	0.66	0.33	0.18	8.25	1.13	0.75	0.31
5.70	0.67	0.34	0.18	8.30	1.14	0.76	0.32
5.75	0.67	0.35	0.18	8.35	1.15	0.77	0.32
5.80	0.68	0.35	0.18	8.40	1.16	0.78	0.32
5.85	0.69	0.36	0.18	8.45	1.17	0.79	0.33
5.90	0.69	0.36	0.18	8.50	1.19	0.80	0.33
5.95	0.70	0.37	0.19	8.55	1.20	0.81	0.33
6.00	0.71	0.38	0.19	8.60	1.21	0.82	0.34
6.05	0.72	0.38	0.19	8.65	1.22	0.83	0.34
6.10	0.72	0.39	0.19	8.70	1.23	0.84	0.34
6.15	0.73	0.39	0.19	8.75	1.25	0.86	0.34
6.20	0.74	0.40	0.19	8.80	1.26	0.87	0.35
6.25	0.75	0.41	0.20	8.85	1.27	0.88	0.35
6.30	0.75	0.41	0.20	8.90	1.28	0.89	0.35
6.35	0.76	0.42	0.20	8.95	1.29	0.90	0.36
6.40	0.77	0.43	0.21	9.00	1.31	0.91	0.36
6.45	0.78	0.43	0.21	9.05	1.32	0.93	0.36
6.50	0.79	0.44	0.21	9.10	1.33	0.94	0.37
6.55	0.79	0.45	0.21	9.15	1.35	0.95	0.38
6.60	0.80	0.46	0.22	9.20	1.36	0.96	0.39
6.65	0.81	0.46	0.22	9.25	1.38	0.98	0.40
6.70	0.82	0.47	0.22	9.30	1.39	0.99	0.41
6.75	0.83	0.48	0.23	9.35	1.41	1.01	0.42
6.80	0.84	0.49	0.23	9.40	1.42	1.02	0.43
6.85	0.85	0.49	0.23	9.45	1.44	1.03	0.44
6.90	0.85	0.50	0.23	9.50	1.45	1.05	0.45
6.95	0.86	0.51	0.24	9.55	1.47	1.07	0.46
7.00	0.87	0.52	0.24	9.60	1.49	1.08	0.47
7.05	0.88	0.52	0.24	9.65	1.50	1.10	0.48
7.10	0.89	0.53	0.25	9.70	1.52	1.11	0.49
7.15	0.90	0.54	0.25	9.75	1.54	1.13	0.50
7.20	0.91	0.55	0.25	9.80	1.56	1.15	0.51
7.25	0.92	0.56	0.26	9.85	1.57	1.17	0.52
7.30	0.93	0.57	0.26	9.90	1.59	1.18	0.53
7.35	0.94	0.58	0.26	9.95	1.61	1.20	0.54
7.40	0.95	0.58	0.26	10.00	1.63	1.22	0.55
7.45	0.96	0.59	0.27	10.05	1.65	1.24	0.56
7.50	0.97	0.60	0.27	10.10	1.67	1.26	0.57
7.55	0.98	0.61	0.27	10.15	1.69	1.28	0.58
7.60	0.99	0.62	0.28	10.20	1.71	1.30	0.59
7.65	1.00	0.63	0.28	10.25	1.73	1.32	0.60
7.70	1.01	0.64	0.28	10.30	1.76	1.34	0.61
7.75	1.02	0.65	0.28	10.35	1.78	1.36	0.62

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.80	1.38	0.64	13.00	6.80	6.33	1.43
10.45	1.82	1.40	0.65	13.05	6.84	6.36	1.35
10.50	1.84	1.42	0.66	13.10	6.87	6.40	1.27
10.55	1.87	1.45	0.67	13.15	6.91	6.43	1.21
10.60	1.89	1.47	0.70	13.20	6.94	6.46	1.14
10.65	1.92	1.50	0.73	13.25	6.97	6.49	1.10
10.70	1.95	1.53	0.76	13.30	7.00	6.52	1.04
10.75	1.98	1.56	0.79	13.35	7.03	6.55	1.00
10.80	2.01	1.59	0.83	13.40	7.06	6.58	0.96
10.85	2.04	1.62	0.87	13.45	7.08	6.60	0.92
10.90	2.08	1.65	0.91	13.50	7.11	6.63	0.87
10.95	2.11	1.68	0.95	13.55	7.13	6.65	0.84
11.00	2.15	1.72	0.99	13.60	7.15	6.67	0.79
11.05	2.19	1.76	1.03	13.65	7.17	6.70	0.76
11.10	2.23	1.80	1.09	13.70	7.19	6.72	0.73
11.15	2.27	1.84	1.15	13.75	7.22	6.74	0.71
11.20	2.32	1.88	1.22	13.80	7.24	6.76	0.70
11.25	2.37	1.93	1.29	13.85	7.26	6.78	0.68
11.30	2.42	1.98	1.36	13.90	7.28	6.80	0.67
11.35	2.47	2.04	1.43	13.95	7.30	6.82	0.66
11.40	2.53	2.09	1.51	14.00	7.32	6.84	0.65
11.45	2.59	2.15	1.58	14.05	7.34	6.86	0.63
11.50	2.64	2.20	1.65	14.10	7.36	6.88	0.62
11.55	2.74	2.29	1.77	14.15	7.38	6.90	0.61
11.60	2.83	2.38	2.08	14.20	7.39	6.92	0.60
11.65	2.92	2.47	2.33	14.25	7.41	6.93	0.59
11.70	3.02	2.57	2.53	14.30	7.43	6.95	0.58
11.75	3.15	2.70	2.75	14.35	7.45	6.97	0.57
11.80	3.28	2.83	3.15	14.40	7.46	6.99	0.56
11.85	3.46	3.00	3.57	14.45	7.48	7.00	0.55
11.90	3.64	3.18	4.22	14.50	7.50	7.02	0.54
11.95	3.95	3.49	5.00	14.55	7.51	7.04	0.53
12.00	4.27	3.80	6.47	14.60	7.53	7.05	0.52
12.05	4.79	4.32	8.07	14.65	7.54	7.07	0.51
12.10	5.31	4.84	**10.63**	14.70	7.56	7.08	0.50
12.15	5.49	5.02	**11.77**	14.75	7.57	7.10	0.49
12.20	5.67	5.20	10.11	14.80	7.59	7.11	0.48
12.25	5.80	5.33	8.51	14.85	7.60	7.12	0.47
12.30	5.93	5.46	7.09	14.90	7.62	7.14	0.46
12.35	6.03	5.56	6.00	14.95	7.63	7.15	0.45
12.40	6.12	5.65	5.01	15.00	7.64	7.16	0.43
12.45	6.21	5.74	4.27	15.05	7.66	7.18	0.42
12.50	6.31	5.83	3.73	15.10	7.67	7.19	0.41
12.55	6.36	5.89	3.30	15.15	7.68	7.20	0.41
12.60	6.42	5.95	2.81	15.20	7.69	7.21	0.40
12.65	6.48	6.00	2.44	15.25	7.70	7.23	0.39
12.70	6.53	6.06	2.17	15.30	7.72	7.24	0.39
12.75	6.58	6.11	1.98	15.35	7.73	7.25	0.38
12.80	6.63	6.16	1.82	15.40	7.74	7.26	0.38
12.85	6.68	6.20	1.71	15.45	7.75	7.27	0.38
12.90	6.72	6.25	1.60	15.50	7.76	7.29	0.38
12.95	6.76	6.29	1.52	15.55	7.78	7.30	0.37

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	7.79	7.31	0.37	18.20	8.27	7.79	0.23
15.65	7.80	7.32	0.37	18.25	8.28	7.80	0.23
15.70	7.81	7.33	0.36	18.30	8.28	7.80	0.22
15.75	7.82	7.34	0.36	18.35	8.29	7.81	0.22
15.80	7.83	7.35	0.36	18.40	8.30	7.82	0.22
15.85	7.84	7.37	0.36	18.45	8.30	7.82	0.22
15.90	7.86	7.38	0.35	18.50	8.31	7.83	0.22
15.95	7.87	7.39	0.35	18.55	8.32	7.84	0.22
16.00	7.88	7.40	0.35	18.60	8.33	7.85	0.22
16.05	7.89	7.41	0.34	18.65	8.33	7.85	0.22
16.10	7.90	7.42	0.34	18.70	8.34	7.86	0.22
16.15	7.91	7.43	0.34	18.75	8.35	7.87	0.22
16.20	7.92	7.44	0.34	18.80	8.35	7.87	0.22
16.25	7.93	7.45	0.33	18.85	8.36	7.88	0.22
16.30	7.94	7.46	0.33	18.90	8.37	7.89	0.22
16.35	7.95	7.47	0.33	18.95	8.37	7.89	0.21
16.40	7.96	7.48	0.33	19.00	8.38	7.90	0.21
16.45	7.97	7.49	0.32	19.05	8.39	7.91	0.21
16.50	7.98	7.50	0.32	19.10	8.39	7.91	0.21
16.55	7.99	7.51	0.32	19.15	8.40	7.92	0.21
16.60	8.00	7.52	0.31	19.20	8.41	7.93	0.21
16.65	8.01	7.53	0.31	19.25	8.41	7.93	0.21
16.70	8.02	7.54	0.31	19.30	8.42	7.94	0.21
16.75	8.03	7.55	0.31	19.35	8.43	7.95	0.21
16.80	8.04	7.56	0.30	19.40	8.43	7.95	0.21
16.85	8.05	7.57	0.30	19.45	8.44	7.96	0.21
16.90	8.06	7.58	0.30	19.50	8.45	7.97	0.21
16.95	8.07	7.59	0.29	19.55	8.45	7.97	0.21
17.00	8.08	7.60	0.29	19.60	8.46	7.98	0.21
17.05	8.09	7.61	0.29	19.65	8.47	7.99	0.20
17.10	8.10	7.62	0.29	19.70	8.47	7.99	0.20
17.15	8.10	7.62	0.28	19.75	8.48	8.00	0.20
17.20	8.11	7.63	0.28	19.80	8.49	8.01	0.20
17.25	8.12	7.64	0.28	19.85	8.49	8.01	0.20
17.30	8.13	7.65	0.27	19.90	8.50	8.02	0.20
17.35	8.14	7.66	0.27	19.95	8.51	8.03	0.20
17.40	8.15	7.67	0.27	20.00	8.51	8.03	0.20
17.45	8.16	7.68	0.27	20.05	8.52	8.04	0.20
17.50	8.16	7.68	0.26	20.10	8.52	8.04	0.20
17.55	8.17	7.69	0.26	20.15	8.53	8.05	0.20
17.60	8.18	7.70	0.26	20.20	8.54	8.06	0.20
17.65	8.19	7.71	0.26	20.25	8.54	8.06	0.20
17.70	8.20	7.72	0.25	20.30	8.55	8.07	0.20
17.75	8.20	7.72	0.25	20.35	8.56	8.08	0.19
17.80	8.21	7.73	0.25	20.40	8.56	8.08	0.19
17.85	8.22	7.74	0.24	20.45	8.57	8.09	0.19
17.90	8.23	7.75	0.24	20.50	8.57	8.09	0.19
17.95	8.23	7.75	0.24	20.55	8.58	8.10	0.19
18.00	8.24	7.76	0.24	20.60	8.59	8.11	0.19
18.05	8.25	7.77	0.23	20.65	8.59	8.11	0.19
18.10	8.26	7.78	0.23	20.70	8.60	8.12	0.19
18.15	8.26	7.78	0.23	20.75	8.60	8.12	0.19

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	8.61	8.13	0.19	23.40	8.89	8.41	0.15
20.85	8.62	8.14	0.19	23.45	8.90	8.42	0.15
20.90	8.62	8.14	0.19	23.50	8.90	8.42	0.15
20.95	8.63	8.15	0.19	23.55	8.91	8.42	0.15
21.00	8.63	8.15	0.19	23.60	8.91	8.43	0.15
21.05	8.64	8.16	0.19	23.65	8.92	8.43	0.15
21.10	8.65	8.17	0.18	23.70	8.92	8.44	0.15
21.15	8.65	8.17	0.18	23.75	8.92	8.44	0.15
21.20	8.66	8.18	0.18	23.80	8.93	8.45	0.15
21.25	8.66	8.18	0.18	23.85	8.93	8.45	0.15
21.30	8.67	8.19	0.18	23.90	8.94	8.46	0.15
21.35	8.67	8.19	0.18	23.95	8.94	8.46	0.15
21.40	8.68	8.20	0.18	24.00	**8.95**	**8.47**	0.16
21.45	8.69	8.21	0.18				
21.50	8.69	8.21	0.18				
21.55	8.70	8.22	0.18				
21.60	8.70	8.22	0.18				
21.65	8.71	8.23	0.18				
21.70	8.71	8.23	0.18				
21.75	8.72	8.24	0.18				
21.80	8.73	8.24	0.18				
21.85	8.73	8.25	0.17				
21.90	8.74	8.26	0.17				
21.95	8.74	8.26	0.17				
22.00	8.75	8.27	0.17				
22.05	8.75	8.27	0.17				
22.10	8.76	8.28	0.17				
22.15	8.76	8.28	0.17				
22.20	8.77	8.29	0.17				
22.25	8.77	8.29	0.17				
22.30	8.78	8.30	0.17				
22.35	8.79	8.30	0.17				
22.40	8.79	8.31	0.17				
22.45	8.80	8.31	0.17				
22.50	8.80	8.32	0.16				
22.55	8.81	8.33	0.16				
22.60	8.81	8.33	0.16				
22.65	8.82	8.34	0.16				
22.70	8.82	8.34	0.16				
22.75	8.83	8.35	0.16				
22.80	8.83	8.35	0.16				
22.85	8.84	8.36	0.16				
22.90	8.84	8.36	0.16				
22.95	8.85	8.37	0.16				
23.00	8.85	8.37	0.16				
23.05	8.86	8.38	0.16				
23.10	8.86	8.38	0.16				
23.15	8.87	8.39	0.16				
23.20	8.87	8.39	0.16				
23.25	8.88	8.40	0.15				
23.30	8.88	8.40	0.15				
23.35	8.89	8.41	0.15				

Summary for Subcatchment EDA2 IMP: EDA2 IMP

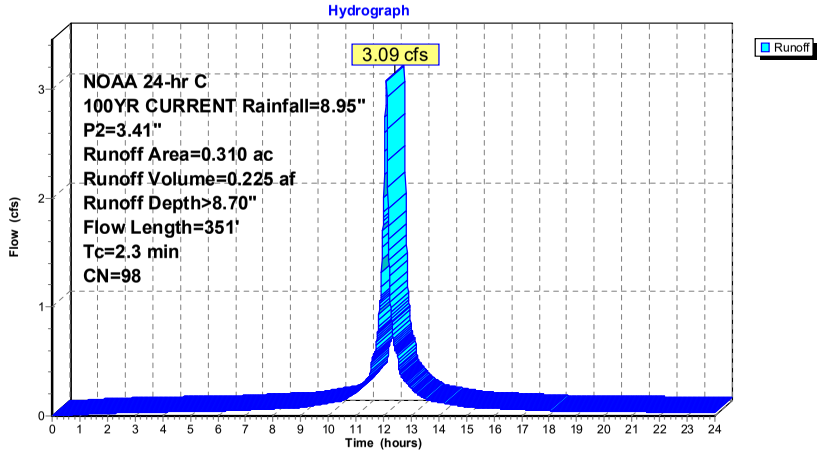
Runoff = 3.09 cfs @ 12.11 hrs, Volume= 0.225 af, Depth> 8.70"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR CURRENT Rainfall=8.95", P2=3.41"

Area (ac)	CN	Description
* 0.310	98	Impervious vehicular
0.310		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0180	1.36		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
1.1	251	0.0360	3.85		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
2.3	351	Total			

Subcatchment EDA2 IMP: EDA2 IMP



Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.27	0.12	0.03
0.05	0.01	0.00	0.00	2.65	0.28	0.13	0.03
0.10	0.01	0.00	0.00	2.70	0.28	0.13	0.03
0.15	0.02	0.00	0.00	2.75	0.29	0.13	0.03
0.20	0.02	0.00	0.00	2.80	0.29	0.14	0.03
0.25	0.03	0.00	0.00	2.85	0.30	0.14	0.03
0.30	0.03	0.00	0.00	2.90	0.30	0.15	0.03
0.35	0.03	0.00	0.00	2.95	0.31	0.15	0.03
0.40	0.04	0.00	0.00	3.00	0.32	0.16	0.03
0.45	0.04	0.00	0.00	3.05	0.32	0.16	0.03
0.50	0.05	0.00	0.00	3.10	0.33	0.17	0.03
0.55	0.05	0.00	0.00	3.15	0.33	0.17	0.03
0.60	0.06	0.00	0.00	3.20	0.34	0.18	0.03
0.65	0.06	0.00	0.00	3.25	0.35	0.18	0.03
0.70	0.07	0.00	0.01	3.30	0.35	0.19	0.03
0.75	0.07	0.00	0.01	3.35	0.36	0.19	0.03
0.80	0.08	0.01	0.01	3.40	0.36	0.20	0.03
0.85	0.08	0.01	0.01	3.45	0.37	0.20	0.03
0.90	0.09	0.01	0.01	3.50	0.38	0.21	0.03
0.95	0.09	0.01	0.01	3.55	0.38	0.21	0.03
1.00	0.10	0.01	0.01	3.60	0.39	0.22	0.03
1.05	0.10	0.01	0.01	3.65	0.39	0.22	0.03
1.10	0.11	0.02	0.01	3.70	0.40	0.23	0.03
1.15	0.11	0.02	0.01	3.75	0.41	0.23	0.03
1.20	0.12	0.02	0.01	3.80	0.41	0.24	0.03
1.25	0.12	0.02	0.01	3.85	0.42	0.25	0.03
1.30	0.13	0.03	0.02	3.90	0.43	0.25	0.03
1.35	0.13	0.03	0.02	3.95	0.43	0.26	0.03
1.40	0.14	0.03	0.02	4.00	0.44	0.26	0.03
1.45	0.14	0.03	0.02	4.05	0.44	0.27	0.04
1.50	0.15	0.04	0.02	4.10	0.45	0.27	0.04
1.55	0.15	0.04	0.02	4.15	0.46	0.28	0.04
1.60	0.16	0.04	0.02	4.20	0.46	0.29	0.04
1.65	0.16	0.05	0.02	4.25	0.47	0.29	0.04
1.70	0.17	0.05	0.02	4.30	0.48	0.30	0.04
1.75	0.18	0.05	0.02	4.35	0.48	0.30	0.04
1.80	0.18	0.06	0.02	4.40	0.49	0.31	0.04
1.85	0.19	0.06	0.02	4.45	0.50	0.31	0.04
1.90	0.19	0.06	0.02	4.50	0.50	0.32	0.04
1.95	0.20	0.07	0.02	4.55	0.51	0.33	0.04
2.00	0.20	0.07	0.02	4.60	0.52	0.33	0.04
2.05	0.21	0.08	0.02	4.65	0.52	0.34	0.04
2.10	0.21	0.08	0.02	4.70	0.53	0.34	0.04
2.15	0.22	0.08	0.02	4.75	0.54	0.35	0.04
2.20	0.22	0.09	0.02	4.80	0.54	0.36	0.04
2.25	0.23	0.09	0.03	4.85	0.55	0.36	0.04
2.30	0.24	0.10	0.03	4.90	0.56	0.37	0.04
2.35	0.24	0.10	0.03	4.95	0.56	0.37	0.04
2.40	0.25	0.10	0.03	5.00	0.57	0.38	0.04
2.45	0.25	0.11	0.03	5.05	0.58	0.39	0.04
2.50	0.26	0.11	0.03	5.10	0.58	0.39	0.04
2.55	0.26	0.12	0.03	5.15	0.59	0.40	0.04

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.60	0.41	0.04	7.80	1.03	0.82	0.06
5.25	0.60	0.41	0.04	7.85	1.04	0.83	0.06
5.30	0.61	0.42	0.04	7.90	1.05	0.84	0.06
5.35	0.62	0.43	0.04	7.95	1.06	0.85	0.06
5.40	0.62	0.43	0.04	8.00	1.07	0.86	0.07
5.45	0.63	0.44	0.04	8.05	1.08	0.87	0.07
5.50	0.64	0.45	0.04	8.10	1.09	0.88	0.07
5.55	0.65	0.45	0.04	8.15	1.11	0.89	0.07
5.60	0.65	0.46	0.04	8.20	1.12	0.90	0.07
5.65	0.66	0.46	0.04	8.25	1.13	0.92	0.07
5.70	0.67	0.47	0.04	8.30	1.14	0.93	0.07
5.75	0.67	0.48	0.04	8.35	1.15	0.94	0.07
5.80	0.68	0.49	0.04	8.40	1.16	0.95	0.07
5.85	0.69	0.49	0.04	8.45	1.17	0.96	0.07
5.90	0.69	0.50	0.04	8.50	1.19	0.97	0.07
5.95	0.70	0.51	0.04	8.55	1.20	0.98	0.07
6.00	0.71	0.51	0.04	8.60	1.21	0.99	0.07
6.05	0.72	0.52	0.04	8.65	1.22	1.01	0.07
6.10	0.72	0.53	0.04	8.70	1.23	1.02	0.07
6.15	0.73	0.53	0.04	8.75	1.25	1.03	0.07
6.20	0.74	0.54	0.04	8.80	1.26	1.04	0.07
6.25	0.75	0.55	0.05	8.85	1.27	1.05	0.08
6.30	0.75	0.56	0.05	8.90	1.28	1.07	0.08
6.35	0.76	0.56	0.05	8.95	1.29	1.08	0.08
6.40	0.77	0.57	0.05	9.00	1.31	1.09	0.08
6.45	0.78	0.58	0.05	9.05	1.32	1.10	0.08
6.50	0.79	0.59	0.05	9.10	1.33	1.12	0.08
6.55	0.79	0.59	0.05	9.15	1.35	1.13	0.08
6.60	0.80	0.60	0.05	9.20	1.36	1.14	0.08
6.65	0.81	0.61	0.05	9.25	1.38	1.16	0.09
6.70	0.82	0.62	0.05	9.30	1.39	1.17	0.09
6.75	0.83	0.63	0.05	9.35	1.41	1.19	0.09
6.80	0.84	0.63	0.05	9.40	1.42	1.20	0.09
6.85	0.85	0.64	0.05	9.45	1.44	1.22	0.10
6.90	0.85	0.65	0.05	9.50	1.45	1.23	0.10
6.95	0.86	0.66	0.05	9.55	1.47	1.25	0.10
7.00	0.87	0.67	0.05	9.60	1.49	1.27	0.10
7.05	0.88	0.68	0.05	9.65	1.50	1.28	0.10
7.10	0.89	0.69	0.05	9.70	1.52	1.30	0.11
7.15	0.90	0.69	0.06	9.75	1.54	1.32	0.11
7.20	0.91	0.70	0.06	9.80	1.56	1.34	0.11
7.25	0.92	0.71	0.06	9.85	1.57	1.35	0.11
7.30	0.93	0.72	0.06	9.90	1.59	1.37	0.11
7.35	0.94	0.73	0.06	9.95	1.61	1.39	0.12
7.40	0.95	0.74	0.06	10.00	1.63	1.41	0.12
7.45	0.96	0.75	0.06	10.05	1.65	1.43	0.12
7.50	0.97	0.76	0.06	10.10	1.67	1.45	0.12
7.55	0.98	0.77	0.06	10.15	1.69	1.47	0.13
7.60	0.99	0.78	0.06	10.20	1.71	1.49	0.13
7.65	1.00	0.79	0.06	10.25	1.73	1.51	0.13
7.70	1.01	0.80	0.06	10.30	1.76	1.53	0.13
7.75	1.02	0.81	0.06	10.35	1.78	1.55	0.13

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.80	1.58	0.13	13.00	6.80	6.56	0.26
10.45	1.82	1.60	0.14	13.05	6.84	6.60	0.24
10.50	1.84	1.62	0.14	13.10	6.87	6.63	0.23
10.55	1.87	1.65	0.15	13.15	6.91	6.67	0.21
10.60	1.89	1.67	0.15	13.20	6.94	6.70	0.21
10.65	1.92	1.70	0.16	13.25	6.97	6.73	0.20
10.70	1.95	1.73	0.17	13.30	7.00	6.76	0.19
10.75	1.98	1.76	0.18	13.35	7.03	6.79	0.18
10.80	2.01	1.79	0.19	13.40	7.06	6.82	0.18
10.85	2.04	1.82	0.20	13.45	7.08	6.84	0.17
10.90	2.08	1.85	0.20	13.50	7.11	6.87	0.16
10.95	2.11	1.89	0.21	13.55	7.13	6.89	0.15
11.00	2.15	1.92	0.22	13.60	7.15	6.91	0.14
11.05	2.19	1.96	0.24	13.65	7.17	6.93	0.14
11.10	2.23	2.00	0.25	13.70	7.19	6.96	0.14
11.15	2.27	2.05	0.26	13.75	7.22	6.98	0.13
11.20	2.32	2.09	0.28	13.80	7.24	7.00	0.13
11.25	2.37	2.14	0.29	13.85	7.26	7.02	0.13
11.30	2.42	2.19	0.31	13.90	7.28	7.04	0.13
11.35	2.47	2.24	0.32	13.95	7.30	7.06	0.13
11.40	2.53	2.30	0.34	14.00	7.32	7.08	0.13
11.45	2.59	2.36	0.35	14.05	7.34	7.10	0.12
11.50	2.64	2.41	0.36	14.10	7.36	7.12	0.12
11.55	2.74	2.50	0.47	14.15	7.38	7.14	0.12
11.60	2.83	2.59	0.53	14.20	7.39	7.15	0.12
11.65	2.92	2.69	0.57	14.25	7.41	7.17	0.11
11.70	3.02	2.78	0.59	14.30	7.43	7.19	0.11
11.75	3.15	2.91	0.71	14.35	7.45	7.21	0.11
11.80	3.28	3.04	0.78	14.40	7.46	7.22	0.11
11.85	3.46	3.23	0.97	14.45	7.48	7.24	0.11
11.90	3.64	3.41	1.08	14.50	7.50	7.26	0.10
11.95	3.95	3.72	1.55	14.55	7.51	7.27	0.10
12.00	4.27	4.03	1.83	14.60	7.53	7.29	0.10
12.05	4.79	4.55	2.61	14.65	7.54	7.30	0.10
12.10	5.31	5.07	**3.06**	14.70	7.56	7.32	0.10
12.15	5.49	5.25	**2.10**	14.75	7.57	7.33	0.09
12.20	5.67	5.43	1.43	14.80	7.59	7.35	0.09
12.25	5.80	5.57	1.04	14.85	7.60	7.36	0.09
12.30	5.93	5.70	0.88	14.90	7.62	7.38	0.09
12.35	6.03	5.79	0.71	14.95	7.63	7.39	0.08
12.40	6.12	5.89	0.63	15.00	7.64	7.40	0.08
12.45	6.21	5.98	0.59	15.05	7.66	7.42	0.08
12.50	6.31	6.07	0.57	15.10	7.67	7.43	0.08
12.55	6.36	6.13	0.46	15.15	7.68	7.44	0.08
12.60	6.42	6.18	0.39	15.20	7.69	7.45	0.08
12.65	6.48	6.24	0.36	15.25	7.70	7.47	0.08
12.70	6.53	6.29	0.35	15.30	7.72	7.48	0.08
12.75	6.58	6.34	0.33	15.35	7.73	7.49	0.08
12.80	6.63	6.39	0.32	15.40	7.74	7.50	0.08
12.85	6.68	6.44	0.30	15.45	7.75	7.51	0.07
12.90	6.72	6.48	0.29	15.50	7.76	7.53	0.07
12.95	6.76	6.52	0.27	15.55	7.78	7.54	0.07

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	7.79	7.55	0.07	18.20	8.27	8.03	0.04
15.65	7.80	7.56	0.07	18.25	8.28	8.04	0.04
15.70	7.81	7.57	0.07	18.30	8.28	8.04	0.04
15.75	7.82	7.58	0.07	18.35	8.29	8.05	0.04
15.80	7.83	7.59	0.07	18.40	8.30	8.06	0.04
15.85	7.84	7.61	0.07	18.45	8.30	8.06	0.04
15.90	7.86	7.62	0.07	18.50	8.31	8.07	0.04
15.95	7.87	7.63	0.07	18.55	8.32	8.08	0.04
16.00	7.88	7.64	0.07	18.60	8.33	8.09	0.04
16.05	7.89	7.65	0.07	18.65	8.33	8.09	0.04
16.10	7.90	7.66	0.07	18.70	8.34	8.10	0.04
16.15	7.91	7.67	0.07	18.75	8.35	8.11	0.04
16.20	7.92	7.68	0.07	18.80	8.35	8.11	0.04
16.25	7.93	7.69	0.07	18.85	8.36	8.12	0.04
16.30	7.94	7.70	0.07	18.90	8.37	8.13	0.04
16.35	7.95	7.71	0.06	18.95	8.37	8.13	0.04
16.40	7.96	7.72	0.06	19.00	8.38	8.14	0.04
16.45	7.97	7.73	0.06	19.05	8.39	8.15	0.04
16.50	7.98	7.74	0.06	19.10	8.39	8.15	0.04
16.55	7.99	7.75	0.06	19.15	8.40	8.16	0.04
16.60	8.00	7.76	0.06	19.20	8.41	8.17	0.04
16.65	8.01	7.77	0.06	19.25	8.41	8.17	0.04
16.70	8.02	7.78	0.06	19.30	8.42	8.18	0.04
16.75	8.03	7.79	0.06	19.35	8.43	8.19	0.04
16.80	8.04	7.80	0.06	19.40	8.43	8.19	0.04
16.85	8.05	7.81	0.06	19.45	8.44	8.20	0.04
16.90	8.06	7.82	0.06	19.50	8.45	8.21	0.04
16.95	8.07	7.83	0.06	19.55	8.45	8.21	0.04
17.00	8.08	7.84	0.06	19.60	8.46	8.22	0.04
17.05	8.09	7.85	0.06	19.65	8.47	8.23	0.04
17.10	8.10	7.86	0.06	19.70	8.47	8.23	0.04
17.15	8.10	7.86	0.06	19.75	8.48	8.24	0.04
17.20	8.11	7.87	0.06	19.80	8.49	8.25	0.04
17.25	8.12	7.88	0.05	19.85	8.49	8.25	0.04
17.30	8.13	7.89	0.05	19.90	8.50	8.26	0.04
17.35	8.14	7.90	0.05	19.95	8.51	8.27	0.04
17.40	8.15	7.91	0.05	20.00	8.51	8.27	0.04
17.45	8.16	7.92	0.05	20.05	8.52	8.28	0.04
17.50	8.16	7.92	0.05	20.10	8.52	8.28	0.04
17.55	8.17	7.93	0.05	20.15	8.53	8.29	0.04
17.60	8.18	7.94	0.05	20.20	8.54	8.30	0.04
17.65	8.19	7.95	0.05	20.25	8.54	8.30	0.04
17.70	8.20	7.96	0.05	20.30	8.55	8.31	0.04
17.75	8.20	7.96	0.05	20.35	8.56	8.32	0.04
17.80	8.21	7.97	0.05	20.40	8.56	8.32	0.04
17.85	8.22	7.98	0.05	20.45	8.57	8.33	0.04
17.90	8.23	7.99	0.05	20.50	8.57	8.33	0.04
17.95	8.23	7.99	0.05	20.55	8.58	8.34	0.04
18.00	8.24	8.00	0.05	20.60	8.59	8.35	0.04
18.05	8.25	8.01	0.05	20.65	8.59	8.35	0.04
18.10	8.26	8.02	0.05	20.70	8.60	8.36	0.04
18.15	8.26	8.02	0.04	20.75	8.60	8.36	0.04

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	8.61	8.37	0.04	23.40	8.89	8.65	0.03
20.85	8.62	8.38	0.04	23.45	8.90	8.66	0.03
20.90	8.62	8.38	0.04	23.50	8.90	8.66	0.03
20.95	8.63	8.39	0.04	23.55	8.91	8.67	0.03
21.00	8.63	8.39	0.04	23.60	8.91	8.67	0.03
21.05	8.64	8.40	0.04	23.65	8.92	8.67	0.03
21.10	8.65	8.41	0.04	23.70	8.92	8.68	0.03
21.15	8.65	8.41	0.04	23.75	8.92	8.68	0.03
21.20	8.66	8.42	0.04	23.80	8.93	8.69	0.03
21.25	8.66	8.42	0.04	23.85	8.93	8.69	0.03
21.30	8.67	8.43	0.04	23.90	8.94	8.70	0.03
21.35	8.67	8.43	0.04	23.95	8.94	8.70	0.03
21.40	8.68	8.44	0.04	24.00	**8.95**	**8.71**	0.03
21.45	8.69	8.45	0.04				
21.50	8.69	8.45	0.04				
21.55	8.70	8.46	0.04				
21.60	8.70	8.46	0.04				
21.65	8.71	8.47	0.04				
21.70	8.71	8.47	0.03				
21.75	8.72	8.48	0.03				
21.80	8.73	8.49	0.03				
21.85	8.73	8.49	0.03				
21.90	8.74	8.50	0.03				
21.95	8.74	8.50	0.03				
22.00	8.75	8.51	0.03				
22.05	8.75	8.51	0.03				
22.10	8.76	8.52	0.03				
22.15	8.76	8.52	0.03				
22.20	8.77	8.53	0.03				
22.25	8.77	8.53	0.03				
22.30	8.78	8.54	0.03				
22.35	8.79	8.54	0.03				
22.40	8.79	8.55	0.03				
22.45	8.80	8.56	0.03				
22.50	8.80	8.56	0.03				
22.55	8.81	8.57	0.03				
22.60	8.81	8.57	0.03				
22.65	8.82	8.58	0.03				
22.70	8.82	8.58	0.03				
22.75	8.83	8.59	0.03				
22.80	8.83	8.59	0.03				
22.85	8.84	8.60	0.03				
22.90	8.84	8.60	0.03				
22.95	8.85	8.61	0.03				
23.00	8.85	8.61	0.03				
23.05	8.86	8.62	0.03				
23.10	8.86	8.62	0.03				
23.15	8.87	8.63	0.03				
23.20	8.87	8.63	0.03				
23.25	8.88	8.64	0.03				
23.30	8.88	8.64	0.03				
23.35	8.89	8.65	0.03				

Summary for Subcatchment EDA3 IMP: EDA3 IMP

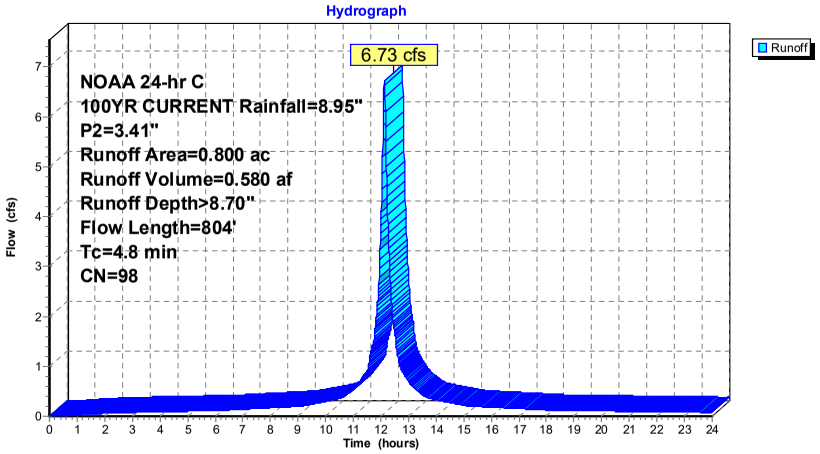
Runoff = 6.73 cfs @ 12.13 hrs, Volume= 0.580 af, Depth> 8.70"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR CURRENT Rainfall=8.95", P2=3.41"

	Area (ac)	CN	Description
*	0.750	98	Impervious vehicular
*	0.050	98	Impervious non vehicular
	0.800	98	Weighted Average
	0.800		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0071	0.94		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.7	172	0.0039	3.90	12.24	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
0.1	27	0.0120	6.84	21.48	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
1.6	439	0.0015	4.45	87.42	**Pipe Channel, RCP_Round 60"** 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.015
4.8	804	Total			

Subcatchment EDA3 IMP: EDA3 IMP



Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.27	0.12	0.07
0.05	0.01	0.00	0.00	2.65	0.28	0.13	0.07
0.10	0.01	0.00	0.00	2.70	0.28	0.13	0.07
0.15	0.02	0.00	0.00	2.75	0.29	0.13	0.07
0.20	0.02	0.00	0.00	2.80	0.29	0.14	0.07
0.25	0.03	0.00	0.00	2.85	0.30	0.14	0.07
0.30	0.03	0.00	0.00	2.90	0.30	0.15	0.07
0.35	0.03	0.00	0.00	2.95	0.31	0.15	0.08
0.40	0.04	0.00	0.00	3.00	0.32	0.16	0.08
0.45	0.04	0.00	0.00	3.05	0.32	0.16	0.08
0.50	0.05	0.00	0.00	3.10	0.33	0.17	0.08
0.55	0.05	0.00	0.00	3.15	0.33	0.17	0.08
0.60	0.06	0.00	0.01	3.20	0.34	0.18	0.08
0.65	0.06	0.00	0.01	3.25	0.35	0.18	0.08
0.70	0.07	0.00	0.01	3.30	0.35	0.19	0.08
0.75	0.07	0.00	0.01	3.35	0.36	0.19	0.08
0.80	0.08	0.01	0.02	3.40	0.36	0.20	0.08
0.85	0.08	0.01	0.02	3.45	0.37	0.20	0.08
0.90	0.09	0.01	0.02	3.50	0.38	0.21	0.08
0.95	0.09	0.01	0.02	3.55	0.38	0.21	0.08
1.00	0.10	0.01	0.03	3.60	0.39	0.22	0.08
1.05	0.10	0.01	0.03	3.65	0.39	0.22	0.08
1.10	0.11	0.02	0.03	3.70	0.40	0.23	0.09
1.15	0.11	0.02	0.03	3.75	0.41	0.23	0.09
1.20	0.12	0.02	0.03	3.80	0.41	0.24	0.09
1.25	0.12	0.02	0.04	3.85	0.42	0.25	0.09
1.30	0.13	0.03	0.04	3.90	0.43	0.25	0.09
1.35	0.13	0.03	0.04	3.95	0.43	0.26	0.09
1.40	0.14	0.03	0.04	4.00	0.44	0.26	0.09
1.45	0.14	0.03	0.04	4.05	0.44	0.27	0.09
1.50	0.15	0.04	0.04	4.10	0.45	0.27	0.09
1.55	0.15	0.04	0.05	4.15	0.46	0.28	0.09
1.60	0.16	0.04	0.05	4.20	0.46	0.29	0.09
1.65	0.16	0.05	0.05	4.25	0.47	0.29	0.09
1.70	0.17	0.05	0.05	4.30	0.48	0.30	0.09
1.75	0.18	0.05	0.05	4.35	0.48	0.30	0.09
1.80	0.18	0.06	0.05	4.40	0.49	0.31	0.09
1.85	0.19	0.06	0.05	4.45	0.50	0.31	0.09
1.90	0.19	0.06	0.06	4.50	0.50	0.32	0.09
1.95	0.20	0.07	0.06	4.55	0.51	0.33	0.10
2.00	0.20	0.07	0.06	4.60	0.52	0.33	0.10
2.05	0.21	0.08	0.06	4.65	0.52	0.34	0.10
2.10	0.21	0.08	0.06	4.70	0.53	0.34	0.10
2.15	0.22	0.08	0.06	4.75	0.54	0.35	0.10
2.20	0.22	0.09	0.06	4.80	0.54	0.36	0.10
2.25	0.23	0.09	0.06	4.85	0.55	0.36	0.10
2.30	0.24	0.10	0.06	4.90	0.56	0.37	0.10
2.35	0.24	0.10	0.07	4.95	0.56	0.37	0.10
2.40	0.25	0.10	0.07	5.00	0.57	0.38	0.10
2.45	0.25	0.11	0.07	5.05	0.58	0.39	0.10
2.50	0.26	0.11	0.07	5.10	0.58	0.39	0.10
2.55	0.26	0.12	0.07	5.15	0.59	0.40	0.10

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.60	0.41	0.10	7.80	1.03	0.82	0.16
5.25	0.60	0.41	0.10	7.85	1.04	0.83	0.16
5.30	0.61	0.42	0.10	7.90	1.05	0.84	0.16
5.35	0.62	0.43	0.10	7.95	1.06	0.85	0.17
5.40	0.62	0.43	0.10	8.00	1.07	0.86	0.17
5.45	0.63	0.44	0.10	8.05	1.08	0.87	0.17
5.50	0.64	0.45	0.10	8.10	1.09	0.88	0.17
5.55	0.65	0.45	0.10	8.15	1.11	0.89	0.17
5.60	0.65	0.46	0.11	8.20	1.12	0.90	0.17
5.65	0.66	0.46	0.11	8.25	1.13	0.92	0.17
5.70	0.67	0.47	0.11	8.30	1.14	0.93	0.18
5.75	0.67	0.48	0.11	8.35	1.15	0.94	0.18
5.80	0.68	0.49	0.11	8.40	1.16	0.95	0.18
5.85	0.69	0.49	0.11	8.45	1.17	0.96	0.18
5.90	0.69	0.50	0.11	8.50	1.19	0.97	0.18
5.95	0.70	0.51	0.11	8.55	1.20	0.98	0.18
6.00	0.71	0.51	0.11	8.60	1.21	0.99	0.18
6.05	0.72	0.52	0.11	8.65	1.22	1.01	0.19
6.10	0.72	0.53	0.11	8.70	1.23	1.02	0.19
6.15	0.73	0.53	0.11	8.75	1.25	1.03	0.19
6.20	0.74	0.54	0.11	8.80	1.26	1.04	0.19
6.25	0.75	0.55	0.11	8.85	1.27	1.05	0.19
6.30	0.75	0.56	0.12	8.90	1.28	1.07	0.19
6.35	0.76	0.56	0.12	8.95	1.29	1.08	0.19
6.40	0.77	0.57	0.12	9.00	1.31	1.09	0.20
6.45	0.78	0.58	0.12	9.05	1.32	1.10	0.20
6.50	0.79	0.59	0.12	9.10	1.33	1.12	0.20
6.55	0.79	0.59	0.12	9.15	1.35	1.13	0.21
6.60	0.80	0.60	0.13	9.20	1.36	1.14	0.21
6.65	0.81	0.61	0.13	9.25	1.38	1.16	0.22
6.70	0.82	0.62	0.13	9.30	1.39	1.17	0.22
6.75	0.83	0.63	0.13	9.35	1.41	1.19	0.23
6.80	0.84	0.63	0.13	9.40	1.42	1.20	0.23
6.85	0.85	0.64	0.13	9.45	1.44	1.22	0.24
6.90	0.85	0.65	0.13	9.50	1.45	1.23	0.24
6.95	0.86	0.66	0.14	9.55	1.47	1.25	0.25
7.00	0.87	0.67	0.14	9.60	1.49	1.27	0.26
7.05	0.88	0.68	0.14	9.65	1.50	1.28	0.26
7.10	0.89	0.69	0.14	9.70	1.52	1.30	0.27
7.15	0.90	0.69	0.14	9.75	1.54	1.32	0.27
7.20	0.91	0.70	0.14	9.80	1.56	1.34	0.28
7.25	0.92	0.71	0.14	9.85	1.57	1.35	0.28
7.30	0.93	0.72	0.15	9.90	1.59	1.37	0.29
7.35	0.94	0.73	0.15	9.95	1.61	1.39	0.29
7.40	0.95	0.74	0.15	10.00	1.63	1.41	0.30
7.45	0.96	0.75	0.15	10.05	1.65	1.43	0.30
7.50	0.97	0.76	0.15	10.10	1.67	1.45	0.31
7.55	0.98	0.77	0.15	10.15	1.69	1.47	0.31
7.60	0.99	0.78	0.15	10.20	1.71	1.49	0.32
7.65	1.00	0.79	0.16	10.25	1.73	1.51	0.33
7.70	1.01	0.80	0.16	10.30	1.76	1.53	0.33
7.75	1.02	0.81	0.16	10.35	1.78	1.55	0.34

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.80	1.58	0.34	13.00	6.80	6.56	0.70
10.45	1.82	1.60	0.35	13.05	6.84	6.60	0.67
10.50	1.84	1.62	0.35	13.10	6.87	6.63	0.63
10.55	1.87	1.65	0.36	13.15	6.91	6.67	0.60
10.60	1.89	1.67	0.38	13.20	6.94	6.70	0.57
10.65	1.92	1.70	0.40	13.25	6.97	6.73	0.54
10.70	1.95	1.73	0.42	13.30	7.00	6.76	0.52
10.75	1.98	1.76	0.43	13.35	7.03	6.79	0.50
10.80	2.01	1.79	0.46	13.40	7.06	6.82	0.48
10.85	2.04	1.82	0.47	13.45	7.08	6.84	0.46
10.90	2.08	1.85	0.50	13.50	7.11	6.87	0.44
10.95	2.11	1.89	0.52	13.55	7.13	6.89	0.42
11.00	2.15	1.92	0.54	13.60	7.15	6.91	0.39
11.05	2.19	1.96	0.56	13.65	7.17	6.93	0.38
11.10	2.23	2.00	0.60	13.70	7.19	6.96	0.37
11.15	2.27	2.05	0.63	13.75	7.22	6.98	0.36
11.20	2.32	2.09	0.67	13.80	7.24	7.00	0.35
11.25	2.37	2.14	0.70	13.85	7.26	7.02	0.35
11.30	2.42	2.19	0.75	13.90	7.28	7.04	0.34
11.35	2.47	2.24	0.78	13.95	7.30	7.06	0.34
11.40	2.53	2.30	0.82	14.00	7.32	7.08	0.33
11.45	2.59	2.36	0.86	14.05	7.34	7.10	0.32
11.50	2.64	2.41	0.89	14.10	7.36	7.12	0.32
11.55	2.74	2.50	0.99	14.15	7.38	7.14	0.31
11.60	2.83	2.59	1.18	14.20	7.39	7.15	0.31
11.65	2.92	2.69	1.31	14.25	7.41	7.17	0.30
11.70	3.02	2.78	1.40	14.30	7.43	7.19	0.30
11.75	3.15	2.91	1.55	14.35	7.45	7.21	0.29
11.80	3.28	3.04	1.78	14.40	7.46	7.22	0.29
11.85	3.46	3.23	2.04	14.45	7.48	7.24	0.28
11.90	3.64	3.41	2.41	14.50	7.50	7.26	0.28
11.95	3.95	3.72	2.95	14.55	7.51	7.27	0.27
12.00	4.27	4.03	3.82	14.60	7.53	7.29	0.26
12.05	4.79	4.55	4.86	14.65	7.54	7.30	0.26
12.10	5.31	5.07	**6.35**	14.70	7.56	7.32	0.25
12.15	5.49	5.25	**6.40**	14.75	7.57	7.33	0.25
12.20	5.67	5.43	5.01	14.80	7.59	7.35	0.24
12.25	5.80	5.57	4.03	14.85	7.60	7.36	0.24
12.30	5.93	5.70	3.23	14.90	7.62	7.38	0.23
12.35	6.03	5.79	2.66	14.95	7.63	7.39	0.23
12.40	6.12	5.89	2.16	15.00	7.64	7.40	0.22
12.45	6.21	5.98	1.85	15.05	7.66	7.42	0.22
12.50	6.31	6.07	1.67	15.10	7.67	7.43	0.21
12.55	6.36	6.13	1.49	15.15	7.68	7.44	0.21
12.60	6.42	6.18	1.25	15.20	7.69	7.45	0.20
12.65	6.48	6.24	1.10	15.25	7.70	7.47	0.20
12.70	6.53	6.29	1.00	15.30	7.72	7.48	0.20
12.75	6.58	6.34	0.94	15.35	7.73	7.49	0.20
12.80	6.63	6.39	0.88	15.40	7.74	7.50	0.20
12.85	6.68	6.44	0.83	15.45	7.75	7.51	0.19
12.90	6.72	6.48	0.79	15.50	7.76	7.53	0.19
12.95	6.76	6.52	0.75	15.55	7.78	7.54	0.19

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	7.79	7.55	0.19	18.20	8.27	8.03	0.12
15.65	7.80	7.56	0.19	18.25	8.28	8.04	0.12
15.70	7.81	7.57	0.19	18.30	8.28	8.04	0.12
15.75	7.82	7.58	0.19	18.35	8.29	8.05	0.11
15.80	7.83	7.59	0.18	18.40	8.30	8.06	0.11
15.85	7.84	7.61	0.18	18.45	8.30	8.06	0.11
15.90	7.86	7.62	0.18	18.50	8.31	8.07	0.11
15.95	7.87	7.63	0.18	18.55	8.32	8.08	0.11
16.00	7.88	7.64	0.18	18.60	8.33	8.09	0.11
16.05	7.89	7.65	0.18	18.65	8.33	8.09	0.11
16.10	7.90	7.66	0.18	18.70	8.34	8.10	0.11
16.15	7.91	7.67	0.17	18.75	8.35	8.11	0.11
16.20	7.92	7.68	0.17	18.80	8.35	8.11	0.11
16.25	7.93	7.69	0.17	18.85	8.36	8.12	0.11
16.30	7.94	7.70	0.17	18.90	8.37	8.13	0.11
16.35	7.95	7.71	0.17	18.95	8.37	8.13	0.11
16.40	7.96	7.72	0.17	19.00	8.38	8.14	0.11
16.45	7.97	7.73	0.17	19.05	8.39	8.15	0.11
16.50	7.98	7.74	0.16	19.10	8.39	8.15	0.11
16.55	7.99	7.75	0.16	19.15	8.40	8.16	0.11
16.60	8.00	7.76	0.16	19.20	8.41	8.17	0.11
16.65	8.01	7.77	0.16	19.25	8.41	8.17	0.11
16.70	8.02	7.78	0.16	19.30	8.42	8.18	0.11
16.75	8.03	7.79	0.16	19.35	8.43	8.19	0.11
16.80	8.04	7.80	0.16	19.40	8.43	8.19	0.11
16.85	8.05	7.81	0.15	19.45	8.44	8.20	0.11
16.90	8.06	7.82	0.15	19.50	8.45	8.21	0.11
16.95	8.07	7.83	0.15	19.55	8.45	8.21	0.11
17.00	8.08	7.84	0.15	19.60	8.46	8.22	0.11
17.05	8.09	7.85	0.15	19.65	8.47	8.23	0.11
17.10	8.10	7.86	0.15	19.70	8.47	8.23	0.11
17.15	8.10	7.86	0.15	19.75	8.48	8.24	0.10
17.20	8.11	7.87	0.14	19.80	8.49	8.25	0.10
17.25	8.12	7.88	0.14	19.85	8.49	8.25	0.10
17.30	8.13	7.89	0.14	19.90	8.50	8.26	0.10
17.35	8.14	7.90	0.14	19.95	8.51	8.27	0.10
17.40	8.15	7.91	0.14	20.00	8.51	8.27	0.10
17.45	8.16	7.92	0.14	20.05	8.52	8.28	0.10
17.50	8.16	7.92	0.14	20.10	8.52	8.28	0.10
17.55	8.17	7.93	0.13	20.15	8.53	8.29	0.10
17.60	8.18	7.94	0.13	20.20	8.54	8.30	0.10
17.65	8.19	7.95	0.13	20.25	8.54	8.30	0.10
17.70	8.20	7.96	0.13	20.30	8.55	8.31	0.10
17.75	8.20	7.96	0.13	20.35	8.56	8.32	0.10
17.80	8.21	7.97	0.13	20.40	8.56	8.32	0.10
17.85	8.22	7.98	0.13	20.45	8.57	8.33	0.10
17.90	8.23	7.99	0.12	20.50	8.57	8.33	0.10
17.95	8.23	7.99	0.12	20.55	8.58	8.34	0.10
18.00	8.24	8.00	0.12	20.60	8.59	8.35	0.10
18.05	8.25	8.01	0.12	20.65	8.59	8.35	0.10
18.10	8.26	8.02	0.12	20.70	8.60	8.36	0.10
18.15	8.26	8.02	0.12	20.75	8.60	8.36	0.10

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	8.61	8.37	0.10	23.40	8.89	8.65	0.08
20.85	8.62	8.38	0.10	23.45	8.90	8.66	0.08
20.90	8.62	8.38	0.10	23.50	8.90	8.66	0.08
20.95	8.63	8.39	0.10	23.55	8.91	8.67	0.08
21.00	8.63	8.39	0.10	23.60	8.91	8.67	0.08
21.05	8.64	8.40	0.10	23.65	8.92	8.67	0.08
21.10	8.65	8.41	0.10	23.70	8.92	8.68	0.08
21.15	8.65	8.41	0.09	23.75	8.92	8.68	0.08
21.20	8.66	8.42	0.09	23.80	8.93	8.69	0.08
21.25	8.66	8.42	0.09	23.85	8.93	8.69	0.08
21.30	8.67	8.43	0.09	23.90	8.94	8.70	0.07
21.35	8.67	8.43	0.09	23.95	8.94	8.70	0.08
21.40	8.68	8.44	0.09	24.00	**8.95**	**8.71**	0.08
21.45	8.69	8.45	0.09				
21.50	8.69	8.45	0.09				
21.55	8.70	8.46	0.09				
21.60	8.70	8.46	0.09				
21.65	8.71	8.47	0.09				
21.70	8.71	8.47	0.09				
21.75	8.72	8.48	0.09				
21.80	8.73	8.49	0.09				
21.85	8.73	8.49	0.09				
21.90	8.74	8.50	0.09				
21.95	8.74	8.50	0.09				
22.00	8.75	8.51	0.09				
22.05	8.75	8.51	0.09				
22.10	8.76	8.52	0.09				
22.15	8.76	8.52	0.09				
22.20	8.77	8.53	0.09				
22.25	8.77	8.53	0.09				
22.30	8.78	8.54	0.09				
22.35	8.79	8.54	0.09				
22.40	8.79	8.55	0.09				
22.45	8.80	8.56	0.09				
22.50	8.80	8.56	0.08				
22.55	8.81	8.57	0.08				
22.60	8.81	8.57	0.08				
22.65	8.82	8.58	0.08				
22.70	8.82	8.58	0.08				
22.75	8.83	8.59	0.08				
22.80	8.83	8.59	0.08				
22.85	8.84	8.60	0.08				
22.90	8.84	8.60	0.08				
22.95	8.85	8.61	0.08				
23.00	8.85	8.61	0.08				
23.05	8.86	8.62	0.08				
23.10	8.86	8.62	0.08				
23.15	8.87	8.63	0.08				
23.20	8.87	8.63	0.08				
23.25	8.88	8.64	0.08				
23.30	8.88	8.64	0.08				
23.35	8.89	8.65	0.08				

Summary for Subcatchment EDA3 PERV: EDA3 PERV

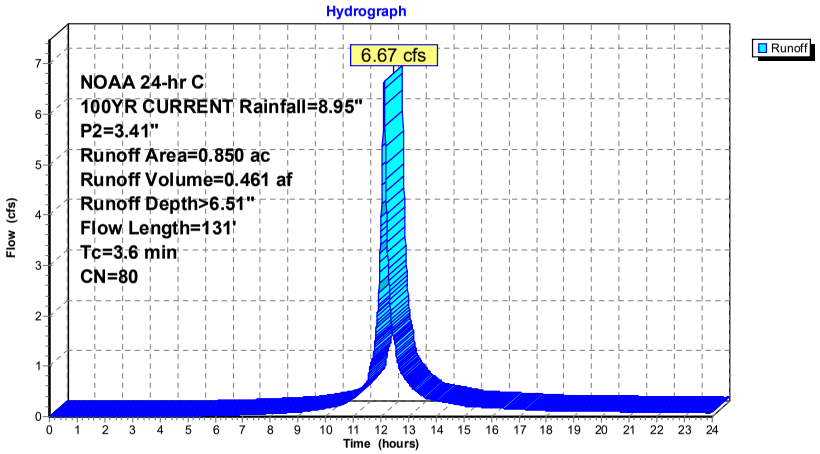
Runoff = 6.67 cfs @ 12.12 hrs, Volume= 0.461 af, Depth> 6.51"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR CURRENT Rainfall=8.95", P2=3.41"

Area (ac)	CN	Description
0.850	80	>75% Grass cover, Good, HSG D
0.850		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	23	0.0200	0.13		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.1	42	0.0150	5.59	6.86	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
3.6	131	Total			

Subcatchment EDA3 PERV: EDA3 PERV



Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.27	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.28	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.28	0.00	0.00
0.15	0.02	0.00	0.00	2.75	0.29	0.00	0.00
0.20	0.02	0.00	0.00	2.80	0.29	0.00	0.00
0.25	0.03	0.00	0.00	2.85	0.30	0.00	0.00
0.30	0.03	0.00	0.00	2.90	0.30	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.31	0.00	0.00
0.40	0.04	0.00	0.00	3.00	0.32	0.00	0.00
0.45	0.04	0.00	0.00	3.05	0.32	0.00	0.00
0.50	0.05	0.00	0.00	3.10	0.33	0.00	0.00
0.55	0.05	0.00	0.00	3.15	0.33	0.00	0.00
0.60	0.06	0.00	0.00	3.20	0.34	0.00	0.00
0.65	0.06	0.00	0.00	3.25	0.35	0.00	0.00
0.70	0.07	0.00	0.00	3.30	0.35	0.00	0.00
0.75	0.07	0.00	0.00	3.35	0.36	0.00	0.00
0.80	0.08	0.00	0.00	3.40	0.36	0.00	0.00
0.85	0.08	0.00	0.00	3.45	0.37	0.00	0.00
0.90	0.09	0.00	0.00	3.50	0.38	0.00	0.00
0.95	0.09	0.00	0.00	3.55	0.38	0.00	0.00
1.00	0.10	0.00	0.00	3.60	0.39	0.00	0.00
1.05	0.10	0.00	0.00	3.65	0.39	0.00	0.00
1.10	0.11	0.00	0.00	3.70	0.40	0.00	0.00
1.15	0.11	0.00	0.00	3.75	0.41	0.00	0.00
1.20	0.12	0.00	0.00	3.80	0.41	0.00	0.00
1.25	0.12	0.00	0.00	3.85	0.42	0.00	0.00
1.30	0.13	0.00	0.00	3.90	0.43	0.00	0.00
1.35	0.13	0.00	0.00	3.95	0.43	0.00	0.00
1.40	0.14	0.00	0.00	4.00	0.44	0.00	0.00
1.45	0.14	0.00	0.00	4.05	0.44	0.00	0.00
1.50	0.15	0.00	0.00	4.10	0.45	0.00	0.00
1.55	0.15	0.00	0.00	4.15	0.46	0.00	0.00
1.60	0.16	0.00	0.00	4.20	0.46	0.00	0.00
1.65	0.16	0.00	0.00	4.25	0.47	0.00	0.00
1.70	0.17	0.00	0.00	4.30	0.48	0.00	0.00
1.75	0.18	0.00	0.00	4.35	0.48	0.00	0.00
1.80	0.18	0.00	0.00	4.40	0.49	0.00	0.00
1.85	0.19	0.00	0.00	4.45	0.50	0.00	0.00
1.90	0.19	0.00	0.00	4.50	0.50	0.00	0.00
1.95	0.20	0.00	0.00	4.55	0.51	0.00	0.00
2.00	0.20	0.00	0.00	4.60	0.52	0.00	0.00
2.05	0.21	0.00	0.00	4.65	0.52	0.00	0.00
2.10	0.21	0.00	0.00	4.70	0.53	0.00	0.00
2.15	0.22	0.00	0.00	4.75	0.54	0.00	0.00
2.20	0.22	0.00	0.00	4.80	0.54	0.00	0.00
2.25	0.23	0.00	0.00	4.85	0.55	0.00	0.00
2.30	0.24	0.00	0.00	4.90	0.56	0.00	0.00
2.35	0.24	0.00	0.00	4.95	0.56	0.00	0.00
2.40	0.25	0.00	0.00	5.00	0.57	0.00	0.01
2.45	0.25	0.00	0.00	5.05	0.58	0.00	0.01
2.50	0.26	0.00	0.00	5.10	0.58	0.00	0.01
2.55	0.26	0.00	0.00	5.15	0.59	0.00	0.01

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.60	0.00	0.01	7.80	1.03	0.09	0.05
5.25	0.60	0.00	0.01	7.85	1.04	0.10	0.06
5.30	0.61	0.00	0.01	7.90	1.05	0.10	0.06
5.35	0.62	0.01	0.01	7.95	1.06	0.10	0.06
5.40	0.62	0.01	0.01	8.00	1.07	0.11	0.06
5.45	0.63	0.01	0.01	8.05	1.08	0.11	0.06
5.50	0.64	0.01	0.01	8.10	1.09	0.11	0.06
5.55	0.65	0.01	0.01	8.15	1.11	0.12	0.06
5.60	0.65	0.01	0.01	8.20	1.12	0.12	0.07
5.65	0.66	0.01	0.01	8.25	1.13	0.13	0.07
5.70	0.67	0.01	0.01	8.30	1.14	0.13	0.07
5.75	0.67	0.01	0.01	8.35	1.15	0.13	0.07
5.80	0.68	0.01	0.01	8.40	1.16	0.14	0.07
5.85	0.69	0.01	0.02	8.45	1.17	0.14	0.07
5.90	0.69	0.01	0.02	8.50	1.19	0.15	0.07
5.95	0.70	0.02	0.02	8.55	1.20	0.15	0.08
6.00	0.71	0.02	0.02	8.60	1.21	0.16	0.08
6.05	0.72	0.02	0.02	8.65	1.22	0.16	0.08
6.10	0.72	0.02	0.02	8.70	1.23	0.17	0.08
6.15	0.73	0.02	0.02	8.75	1.25	0.17	0.08
6.20	0.74	0.02	0.02	8.80	1.26	0.18	0.08
6.25	0.75	0.02	0.02	8.85	1.27	0.18	0.09
6.30	0.75	0.02	0.02	8.90	1.28	0.19	0.09
6.35	0.76	0.02	0.02	8.95	1.29	0.19	0.09
6.40	0.77	0.03	0.02	9.00	1.31	0.20	0.09
6.45	0.78	0.03	0.02	9.05	1.32	0.20	0.09
6.50	0.79	0.03	0.03	9.10	1.33	0.21	0.10
6.55	0.79	0.03	0.03	9.15	1.35	0.21	0.10
6.60	0.80	0.03	0.03	9.20	1.36	0.22	0.10
6.65	0.81	0.03	0.03	9.25	1.38	0.23	0.11
6.70	0.82	0.04	0.03	9.30	1.39	0.23	0.11
6.75	0.83	0.04	0.03	9.35	1.41	0.24	0.11
6.80	0.84	0.04	0.03	9.40	1.42	0.25	0.12
6.85	0.85	0.04	0.03	9.45	1.44	0.26	0.12
6.90	0.85	0.04	0.03	9.50	1.45	0.26	0.12
6.95	0.86	0.05	0.03	9.55	1.47	0.27	0.13
7.00	0.87	0.05	0.04	9.60	1.49	0.28	0.13
7.05	0.88	0.05	0.04	9.65	1.50	0.29	0.14
7.10	0.89	0.05	0.04	9.70	1.52	0.30	0.14
7.15	0.90	0.06	0.04	9.75	1.54	0.30	0.15
7.20	0.91	0.06	0.04	9.80	1.56	0.31	0.15
7.25	0.92	0.06	0.04	9.85	1.57	0.32	0.15
7.30	0.93	0.06	0.04	9.90	1.59	0.33	0.16
7.35	0.94	0.07	0.04	9.95	1.61	0.34	0.16
7.40	0.95	0.07	0.04	10.00	1.63	0.35	0.17
7.45	0.96	0.07	0.05	10.05	1.65	0.36	0.17
7.50	0.97	0.07	0.05	10.10	1.67	0.37	0.18
7.55	0.98	0.08	0.05	10.15	1.69	0.39	0.18
7.60	0.99	0.08	0.05	10.20	1.71	0.40	0.19
7.65	1.00	0.08	0.05	10.25	1.73	0.41	0.19
7.70	1.01	0.09	0.05	10.30	1.76	0.42	0.20
7.75	1.02	0.09	0.05	10.35	1.78	0.43	0.20

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.80	0.44	0.21	13.00	6.80	4.51	0.67
10.45	1.82	0.46	0.21	13.05	6.84	4.54	0.63
10.50	1.84	0.47	0.22	13.10	6.87	4.58	0.59
10.55	1.87	0.48	0.23	13.15	6.91	4.61	0.56
10.60	1.89	0.50	0.24	13.20	6.94	4.64	0.54
10.65	1.92	0.52	0.26	13.25	6.97	4.67	0.52
10.70	1.95	0.53	0.27	13.30	7.00	4.69	0.50
10.75	1.98	0.55	0.29	13.35	7.03	4.72	0.48
10.80	2.01	0.57	0.30	13.40	7.06	4.75	0.46
10.85	2.04	0.59	0.32	13.45	7.08	4.77	0.44
10.90	2.08	0.61	0.33	13.50	7.11	4.79	0.42
10.95	2.11	0.63	0.35	13.55	7.13	4.81	0.40
11.00	2.15	0.65	0.37	13.60	7.15	4.83	0.38
11.05	2.19	0.68	0.39	13.65	7.17	4.85	0.36
11.10	2.23	0.71	0.42	13.70	7.19	4.87	0.35
11.15	2.27	0.74	0.45	13.75	7.22	4.89	0.35
11.20	2.32	0.77	0.48	13.80	7.24	4.91	0.34
11.25	2.37	0.80	0.52	13.85	7.26	4.93	0.34
11.30	2.42	0.83	0.55	13.90	7.28	4.95	0.33
11.35	2.47	0.87	0.58	13.95	7.30	4.97	0.33
11.40	2.53	0.91	0.62	14.00	7.32	4.99	0.32
11.45	2.59	0.95	0.65	14.05	7.34	5.01	0.32
11.50	2.64	0.99	0.68	14.10	7.36	5.02	0.31
11.55	2.74	1.06	0.81	14.15	7.38	5.04	0.31
11.60	2.83	1.12	0.97	14.20	7.39	5.06	0.30
11.65	2.92	1.19	1.08	14.25	7.41	5.08	0.30
11.70	3.02	1.26	1.15	14.30	7.43	5.09	0.29
11.75	3.15	1.36	1.32	14.35	7.45	5.11	0.28
11.80	3.28	1.46	1.53	14.40	7.46	5.12	0.28
11.85	3.46	1.60	1.83	14.45	7.48	5.14	0.27
11.90	3.64	1.75	2.16	14.50	7.50	5.16	0.27
11.95	3.95	2.00	2.86	14.55	7.51	5.17	0.26
12.00	4.27	2.26	3.68	14.60	7.53	5.18	0.26
12.05	4.79	2.71	4.99	14.65	7.54	5.20	0.25
12.10	5.31	3.17	**6.44**	14.70	7.56	5.21	0.25
12.15	5.49	3.33	**5.76**	14.75	7.57	5.23	0.24
12.20	5.67	3.49	4.23	14.80	7.59	5.24	0.24
12.25	5.80	3.60	3.27	14.85	7.60	5.25	0.23
12.30	5.93	3.72	2.59	14.90	7.62	5.27	0.23
12.35	6.03	3.81	2.10	14.95	7.63	5.28	0.22
12.40	6.12	3.89	1.76	15.00	7.64	5.29	0.22
12.45	6.21	3.98	1.58	15.05	7.66	5.30	0.21
12.50	6.31	4.06	1.48	15.10	7.67	5.31	0.21
12.55	6.36	4.11	1.29	15.15	7.68	5.33	0.20
12.60	6.42	4.16	1.09	15.20	7.69	5.34	0.20
12.65	6.48	4.21	0.98	15.25	7.70	5.35	0.20
12.70	6.53	4.26	0.91	15.30	7.72	5.36	0.20
12.75	6.58	4.31	0.86	15.35	7.73	5.37	0.19
12.80	6.63	4.36	0.82	15.40	7.74	5.38	0.19
12.85	6.68	4.40	0.78	15.45	7.75	5.39	0.19
12.90	6.72	4.44	0.74	15.50	7.76	5.40	0.19
12.95	6.76	4.48	0.70	15.55	7.78	5.42	0.19

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	7.79	5.43	0.19	18.20	8.27	5.88	0.12
15.65	7.80	5.44	0.19	18.25	8.28	5.88	0.12
15.70	7.81	5.45	0.18	18.30	8.28	5.89	0.12
15.75	7.82	5.46	0.18	18.35	8.29	5.90	0.11
15.80	7.83	5.47	0.18	18.40	8.30	5.90	0.11
15.85	7.84	5.48	0.18	18.45	8.30	5.91	0.11
15.90	7.86	5.49	0.18	18.50	8.31	5.92	0.11
15.95	7.87	5.50	0.18	18.55	8.32	5.92	0.11
16.00	7.88	5.51	0.18	18.60	8.33	5.93	0.11
16.05	7.89	5.52	0.18	18.65	8.33	5.94	0.11
16.10	7.90	5.53	0.17	18.70	8.34	5.94	0.11
16.15	7.91	5.54	0.17	18.75	8.35	5.95	0.11
16.20	7.92	5.55	0.17	18.80	8.35	5.96	0.11
16.25	7.93	5.56	0.17	18.85	8.36	5.96	0.11
16.30	7.94	5.57	0.17	18.90	8.37	5.97	0.11
16.35	7.95	5.58	0.17	18.95	8.37	5.98	0.11
16.40	7.96	5.59	0.17	19.00	8.38	5.98	0.11
16.45	7.97	5.60	0.16	19.05	8.39	5.99	0.11
16.50	7.98	5.61	0.16	19.10	8.39	6.00	0.11
16.55	7.99	5.62	0.16	19.15	8.40	6.00	0.11
16.60	8.00	5.63	0.16	19.20	8.41	6.01	0.11
16.65	8.01	5.64	0.16	19.25	8.41	6.01	0.11
16.70	8.02	5.64	0.16	19.30	8.42	6.02	0.11
16.75	8.03	5.65	0.16	19.35	8.43	6.03	0.11
16.80	8.04	5.66	0.15	19.40	8.43	6.03	0.11
16.85	8.05	5.67	0.15	19.45	8.44	6.04	0.11
16.90	8.06	5.68	0.15	19.50	8.45	6.05	0.11
16.95	8.07	5.69	0.15	19.55	8.45	6.05	0.11
17.00	8.08	5.70	0.15	19.60	8.46	6.06	0.11
17.05	8.09	5.71	0.15	19.65	8.47	6.06	0.11
17.10	8.10	5.71	0.15	19.70	8.47	6.07	0.11
17.15	8.10	5.72	0.14	19.75	8.48	6.08	0.11
17.20	8.11	5.73	0.14	19.80	8.49	6.08	0.10
17.25	8.12	5.74	0.14	19.85	8.49	6.09	0.10
17.30	8.13	5.75	0.14	19.90	8.50	6.09	0.10
17.35	8.14	5.75	0.14	19.95	8.51	6.10	0.10
17.40	8.15	5.76	0.14	20.00	8.51	6.11	0.10
17.45	8.16	5.77	0.14	20.05	8.52	6.11	0.10
17.50	8.16	5.78	0.13	20.10	8.52	6.12	0.10
17.55	8.17	5.79	0.13	20.15	8.53	6.12	0.10
17.60	8.18	5.79	0.13	20.20	8.54	6.13	0.10
17.65	8.19	5.80	0.13	20.25	8.54	6.14	0.10
17.70	8.20	5.81	0.13	20.30	8.55	6.14	0.10
17.75	8.20	5.82	0.13	20.35	8.56	6.15	0.10
17.80	8.21	5.82	0.13	20.40	8.56	6.15	0.10
17.85	8.22	5.83	0.12	20.45	8.57	6.16	0.10
17.90	8.23	5.84	0.12	20.50	8.57	6.17	0.10
17.95	8.23	5.84	0.12	20.55	8.58	6.17	0.10
18.00	8.24	5.85	0.12	20.60	8.59	6.18	0.10
18.05	8.25	5.86	0.12	20.65	8.59	6.18	0.10
18.10	8.26	5.86	0.12	20.70	8.60	6.19	0.10
18.15	8.26	5.87	0.12	20.75	8.60	6.19	0.10

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	8.61	6.20	0.10	23.40	8.89	6.47	0.08
20.85	8.62	6.21	0.10	23.45	8.90	6.47	0.08
20.90	8.62	6.21	0.10	23.50	8.90	6.47	0.08
20.95	8.63	6.22	0.10	23.55	8.91	6.48	0.08
21.00	8.63	6.22	0.10	23.60	8.91	6.48	0.08
21.05	8.64	6.23	0.10	23.65	8.92	6.49	0.08
21.10	8.65	6.23	0.10	23.70	8.92	6.49	0.08
21.15	8.65	6.24	0.09	23.75	8.92	6.50	0.08
21.20	8.66	6.24	0.09	23.80	8.93	6.50	0.08
21.25	8.66	6.25	0.09	23.85	8.93	6.51	0.08
21.30	8.67	6.26	0.09	23.90	8.94	6.51	0.08
21.35	8.67	6.26	0.09	23.95	8.94	6.52	0.08
21.40	8.68	6.27	0.09	24.00	**8.95**	**6.52**	0.09
21.45	8.69	6.27	0.09				
21.50	8.69	6.28	0.09				
21.55	8.70	6.28	0.09				
21.60	8.70	6.29	0.09				
21.65	8.71	6.29	0.09				
21.70	8.71	6.30	0.09				
21.75	8.72	6.30	0.09				
21.80	8.73	6.31	0.09				
21.85	8.73	6.31	0.09				
21.90	8.74	6.32	0.09				
21.95	8.74	6.32	0.09				
22.00	8.75	6.33	0.09				
22.05	8.75	6.33	0.09				
22.10	8.76	6.34	0.09				
22.15	8.76	6.34	0.09				
22.20	8.77	6.35	0.09				
22.25	8.77	6.35	0.09				
22.30	8.78	6.36	0.09				
22.35	8.79	6.36	0.09				
22.40	8.79	6.37	0.09				
22.45	8.80	6.37	0.09				
22.50	8.80	6.38	0.09				
22.55	8.81	6.38	0.09				
22.60	8.81	6.39	0.08				
22.65	8.82	6.39	0.08				
22.70	8.82	6.40	0.08				
22.75	8.83	6.40	0.08				
22.80	8.83	6.41	0.08				
22.85	8.84	6.41	0.08				
22.90	8.84	6.42	0.08				
22.95	8.85	6.42	0.08				
23.00	8.85	6.43	0.08				
23.05	8.86	6.43	0.08				
23.10	8.86	6.44	0.08				
23.15	8.87	6.44	0.08				
23.20	8.87	6.45	0.08				
23.25	8.88	6.45	0.08				
23.30	8.88	6.46	0.08				
23.35	8.89	6.46	0.08				

Summary for Subcatchment EDA4 IMP: EDA4 IMP

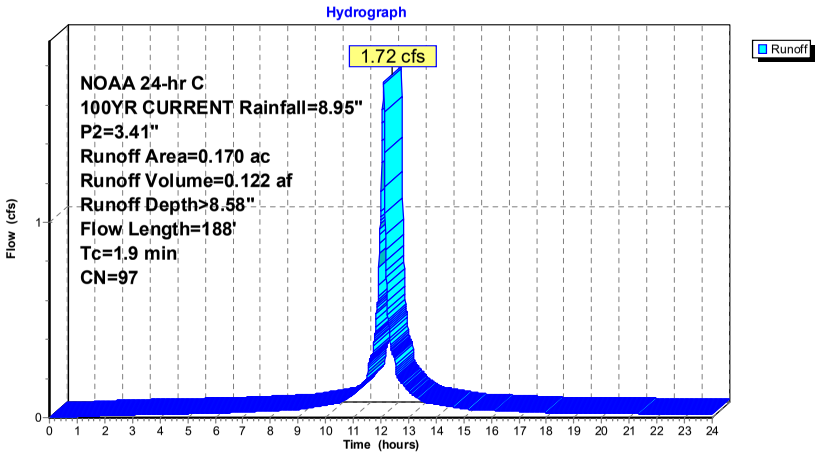
Runoff = 1.72 cfs @ 12.10 hrs, Volume= 0.122 af, Depth> 8.58"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR CURRENT Rainfall=8.95", P2=3.41"

	Area (ac)	CN	Description
*	0.120	98	Impervious vehicular
	0.050	96	Gravel surface, HSG D
	0.170	97	Weighted Average
	0.050		29.41% Pervious Area
	0.120		70.59% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	100	0.0160	1.30		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.6	88	0.0150	2.49		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
1.9	188	Total			

Subcatchment EDA4 IMP: EDA4 IMP



Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.27	0.08	0.01
0.05	0.01	0.00	0.00	2.65	0.28	0.09	0.01
0.10	0.01	0.00	0.00	2.70	0.28	0.09	0.01
0.15	0.02	0.00	0.00	2.75	0.29	0.09	0.01
0.20	0.02	0.00	0.00	2.80	0.29	0.10	0.01
0.25	0.03	0.00	0.00	2.85	0.30	0.10	0.01
0.30	0.03	0.00	0.00	2.90	0.30	0.11	0.01
0.35	0.03	0.00	0.00	2.95	0.31	0.11	0.01
0.40	0.04	0.00	0.00	3.00	0.32	0.11	0.01
0.45	0.04	0.00	0.00	3.05	0.32	0.12	0.01
0.50	0.05	0.00	0.00	3.10	0.33	0.12	0.01
0.55	0.05	0.00	0.00	3.15	0.33	0.13	0.01
0.60	0.06	0.00	0.00	3.20	0.34	0.13	0.01
0.65	0.06	0.00	0.00	3.25	0.35	0.14	0.01
0.70	0.07	0.00	0.00	3.30	0.35	0.14	0.01
0.75	0.07	0.00	0.00	3.35	0.36	0.14	0.02
0.80	0.08	0.00	0.00	3.40	0.36	0.15	0.02
0.85	0.08	0.00	0.00	3.45	0.37	0.15	0.02
0.90	0.09	0.00	0.00	3.50	0.38	0.16	0.02
0.95	0.09	0.00	0.00	3.55	0.38	0.16	0.02
1.00	0.10	0.00	0.00	3.60	0.39	0.17	0.02
1.05	0.10	0.00	0.00	3.65	0.39	0.17	0.02
1.10	0.11	0.01	0.00	3.70	0.40	0.18	0.02
1.15	0.11	0.01	0.00	3.75	0.41	0.18	0.02
1.20	0.12	0.01	0.00	3.80	0.41	0.19	0.02
1.25	0.12	0.01	0.00	3.85	0.42	0.19	0.02
1.30	0.13	0.01	0.01	3.90	0.43	0.20	0.02
1.35	0.13	0.01	0.01	3.95	0.43	0.20	0.02
1.40	0.14	0.02	0.01	4.00	0.44	0.21	0.02
1.45	0.14	0.02	0.01	4.05	0.44	0.21	0.02
1.50	0.15	0.02	0.01	4.10	0.45	0.22	0.02
1.55	0.15	0.02	0.01	4.15	0.46	0.22	0.02
1.60	0.16	0.02	0.01	4.20	0.46	0.23	0.02
1.65	0.16	0.03	0.01	4.25	0.47	0.23	0.02
1.70	0.17	0.03	0.01	4.30	0.48	0.24	0.02
1.75	0.18	0.03	0.01	4.35	0.48	0.24	0.02
1.80	0.18	0.03	0.01	4.40	0.49	0.25	0.02
1.85	0.19	0.04	0.01	4.45	0.50	0.25	0.02
1.90	0.19	0.04	0.01	4.50	0.50	0.26	0.02
1.95	0.20	0.04	0.01	4.55	0.51	0.26	0.02
2.00	0.20	0.04	0.01	4.60	0.52	0.27	0.02
2.05	0.21	0.05	0.01	4.65	0.52	0.28	0.02
2.10	0.21	0.05	0.01	4.70	0.53	0.28	0.02
2.15	0.22	0.05	0.01	4.75	0.54	0.29	0.02
2.20	0.22	0.06	0.01	4.80	0.54	0.29	0.02
2.25	0.23	0.06	0.01	4.85	0.55	0.30	0.02
2.30	0.24	0.06	0.01	4.90	0.56	0.30	0.02
2.35	0.24	0.07	0.01	4.95	0.56	0.31	0.02
2.40	0.25	0.07	0.01	5.00	0.57	0.32	0.02
2.45	0.25	0.07	0.01	5.05	0.58	0.32	0.02
2.50	0.26	0.08	0.01	5.10	0.58	0.33	0.02
2.55	0.26	0.08	0.01	5.15	0.59	0.33	0.02

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.60	0.34	0.02	7.80	1.03	0.73	0.03
5.25	0.60	0.34	0.02	7.85	1.04	0.74	0.03
5.30	0.61	0.35	0.02	7.90	1.05	0.75	0.03
5.35	0.62	0.36	0.02	7.95	1.06	0.76	0.03
5.40	0.62	0.36	0.02	8.00	1.07	0.77	0.03
5.45	0.63	0.37	0.02	8.05	1.08	0.78	0.04
5.50	0.64	0.38	0.02	8.10	1.09	0.79	0.04
5.55	0.65	0.38	0.02	8.15	1.11	0.80	0.04
5.60	0.65	0.39	0.02	8.20	1.12	0.82	0.04
5.65	0.66	0.39	0.02	8.25	1.13	0.83	0.04
5.70	0.67	0.40	0.02	8.30	1.14	0.84	0.04
5.75	0.67	0.41	0.02	8.35	1.15	0.85	0.04
5.80	0.68	0.41	0.02	8.40	1.16	0.86	0.04
5.85	0.69	0.42	0.02	8.45	1.17	0.87	0.04
5.90	0.69	0.43	0.02	8.50	1.19	0.88	0.04
5.95	0.70	0.43	0.02	8.55	1.20	0.89	0.04
6.00	0.71	0.44	0.02	8.60	1.21	0.90	0.04
6.05	0.72	0.44	0.02	8.65	1.22	0.91	0.04
6.10	0.72	0.45	0.02	8.70	1.23	0.93	0.04
6.15	0.73	0.46	0.02	8.75	1.25	0.94	0.04
6.20	0.74	0.46	0.02	8.80	1.26	0.95	0.04
6.25	0.75	0.47	0.02	8.85	1.27	0.96	0.04
6.30	0.75	0.48	0.02	8.90	1.28	0.97	0.04
6.35	0.76	0.49	0.02	8.95	1.29	0.99	0.04
6.40	0.77	0.49	0.02	9.00	1.31	1.00	0.04
6.45	0.78	0.50	0.02	9.05	1.32	1.01	0.04
6.50	0.79	0.51	0.03	9.10	1.33	1.02	0.04
6.55	0.79	0.52	0.03	9.15	1.35	1.04	0.04
6.60	0.80	0.52	0.03	9.20	1.36	1.05	0.05
6.65	0.81	0.53	0.03	9.25	1.38	1.06	0.05
6.70	0.82	0.54	0.03	9.30	1.39	1.08	0.05
6.75	0.83	0.55	0.03	9.35	1.41	1.09	0.05
6.80	0.84	0.55	0.03	9.40	1.42	1.11	0.05
6.85	0.85	0.56	0.03	9.45	1.44	1.12	0.05
6.90	0.85	0.57	0.03	9.50	1.45	1.14	0.05
6.95	0.86	0.58	0.03	9.55	1.47	1.15	0.05
7.00	0.87	0.59	0.03	9.60	1.49	1.17	0.05
7.05	0.88	0.60	0.03	9.65	1.50	1.19	0.06
7.10	0.89	0.60	0.03	9.70	1.52	1.20	0.06
7.15	0.90	0.61	0.03	9.75	1.54	1.22	0.06
7.20	0.91	0.62	0.03	9.80	1.56	1.24	0.06
7.25	0.92	0.63	0.03	9.85	1.57	1.26	0.06
7.30	0.93	0.64	0.03	9.90	1.59	1.27	0.06
7.35	0.94	0.65	0.03	9.95	1.61	1.29	0.06
7.40	0.95	0.66	0.03	10.00	1.63	1.31	0.06
7.45	0.96	0.67	0.03	10.05	1.65	1.33	0.07
7.50	0.97	0.68	0.03	10.10	1.67	1.35	0.07
7.55	0.98	0.69	0.03	10.15	1.69	1.37	0.07
7.60	0.99	0.69	0.03	10.20	1.71	1.39	0.07
7.65	1.00	0.70	0.03	10.25	1.73	1.41	0.07
7.70	1.01	0.71	0.03	10.30	1.76	1.43	0.07
7.75	1.02	0.72	0.03	10.35	1.78	1.45	0.07

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.80	1.47	0.07	13.00	6.80	6.44	0.14
10.45	1.82	1.50	0.07	13.05	6.84	6.48	0.13
10.50	1.84	1.52	0.08	13.10	6.87	6.52	0.12
10.55	1.87	1.54	0.08	13.15	6.91	6.55	0.12
10.60	1.89	1.57	0.08	13.20	6.94	6.58	0.11
10.65	1.92	1.60	0.09	13.25	6.97	6.61	0.11
10.70	1.95	1.62	0.09	13.30	7.00	6.64	0.10
10.75	1.98	1.65	0.10	13.35	7.03	6.67	0.10
10.80	2.01	1.68	0.10	13.40	7.06	6.70	0.10
10.85	2.04	1.71	0.11	13.45	7.08	6.72	0.09
10.90	2.08	1.75	0.11	13.50	7.11	6.75	0.09
10.95	2.11	1.78	0.12	13.55	7.13	6.77	0.08
11.00	2.15	1.82	0.12	13.60	7.15	6.79	0.08
11.05	2.19	1.86	0.13	13.65	7.17	6.81	0.08
11.10	2.23	1.90	0.13	13.70	7.19	6.84	0.08
11.15	2.27	1.94	0.15	13.75	7.22	6.86	0.07
11.20	2.32	1.98	0.15	13.80	7.24	6.88	0.07
11.25	2.37	2.03	0.16	13.85	7.26	6.90	0.07
11.30	2.42	2.08	0.17	13.90	7.28	6.92	0.07
11.35	2.47	2.14	0.18	13.95	7.30	6.94	0.07
11.40	2.53	2.19	0.18	14.00	7.32	6.96	0.07
11.45	2.59	2.25	0.19	14.05	7.34	6.98	0.07
11.50	2.64	2.31	0.20	14.10	7.36	7.00	0.07
11.55	2.74	2.40	0.27	14.15	7.38	7.02	0.06
11.60	2.83	2.49	0.30	14.20	7.39	7.04	0.06
11.65	2.92	2.58	0.32	14.25	7.41	7.05	0.06
11.70	3.02	2.67	0.32	14.30	7.43	7.07	0.06
11.75	3.15	2.80	0.40	14.35	7.45	7.09	0.06
11.80	3.28	2.93	0.43	14.40	7.46	7.11	0.06
11.85	3.46	3.11	0.55	14.45	7.48	7.12	0.06
11.90	3.64	3.29	0.60	14.50	7.50	7.14	0.06
11.95	3.95	3.60	0.90	14.55	7.51	7.15	0.06
12.00	4.27	3.92	1.03	14.60	7.53	7.17	0.05
12.05	4.79	4.44	1.51	14.65	7.54	7.19	0.05
12.10	5.31	4.96	**1.72**	14.70	7.56	7.20	0.05
12.15	5.49	5.14	1.04	14.75	7.57	7.22	0.05
12.20	5.67	5.32	0.72	14.80	7.59	7.23	0.05
12.25	5.80	5.45	0.53	14.85	7.60	7.24	0.05
12.30	5.93	5.58	0.46	14.90	7.62	7.26	0.05
12.35	6.03	5.67	0.37	14.95	7.63	7.27	0.05
12.40	6.12	5.77	0.34	15.00	7.64	7.28	0.05
12.45	6.21	5.86	0.32	15.05	7.66	7.30	0.04
12.50	6.31	5.95	0.31	15.10	7.67	7.31	0.04
12.55	6.36	6.01	0.24	15.15	7.68	7.32	0.04
12.60	6.42	6.07	0.21	15.20	7.69	7.33	0.04
12.65	6.48	6.12	0.19	15.25	7.70	7.35	0.04
12.70	6.53	6.17	0.19	15.30	7.72	7.36	0.04
12.75	6.58	6.22	0.18	15.35	7.73	7.37	0.04
12.80	6.63	6.27	0.17	15.40	7.74	7.38	0.04
12.85	6.68	6.32	0.16	15.45	7.75	7.39	0.04
12.90	6.72	6.36	0.16	15.50	7.76	7.41	0.04
12.95	6.76	6.40	0.14	15.55	7.78	7.42	0.04

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	7.79	7.43	0.04	18.20	8.27	7.91	0.02
15.65	7.80	7.44	0.04	18.25	8.28	7.92	0.02
15.70	7.81	7.45	0.04	18.30	8.28	7.92	0.02
15.75	7.82	7.46	0.04	18.35	8.29	7.93	0.02
15.80	7.83	7.47	0.04	18.40	8.30	7.94	0.02
15.85	7.84	7.49	0.04	18.45	8.30	7.94	0.02
15.90	7.86	7.50	0.04	18.50	8.31	7.95	0.02
15.95	7.87	7.51	0.04	18.55	8.32	7.96	0.02
16.00	7.88	7.52	0.04	18.60	8.33	7.97	0.02
16.05	7.89	7.53	0.04	18.65	8.33	7.97	0.02
16.10	7.90	7.54	0.04	18.70	8.34	7.98	0.02
16.15	7.91	7.55	0.04	18.75	8.35	7.99	0.02
16.20	7.92	7.56	0.04	18.80	8.35	7.99	0.02
16.25	7.93	7.57	0.04	18.85	8.36	8.00	0.02
16.30	7.94	7.58	0.04	18.90	8.37	8.01	0.02
16.35	7.95	7.59	0.04	18.95	8.37	8.01	0.02
16.40	7.96	7.60	0.04	19.00	8.38	8.02	0.02
16.45	7.97	7.61	0.03	19.05	8.39	8.03	0.02
16.50	7.98	7.62	0.03	19.10	8.39	8.03	0.02
16.55	7.99	7.63	0.03	19.15	8.40	8.04	0.02
16.60	8.00	7.64	0.03	19.20	8.41	8.05	0.02
16.65	8.01	7.65	0.03	19.25	8.41	8.05	0.02
16.70	8.02	7.66	0.03	19.30	8.42	8.06	0.02
16.75	8.03	7.67	0.03	19.35	8.43	8.07	0.02
16.80	8.04	7.68	0.03	19.40	8.43	8.07	0.02
16.85	8.05	7.69	0.03	19.45	8.44	8.08	0.02
16.90	8.06	7.70	0.03	19.50	8.45	8.09	0.02
16.95	8.07	7.71	0.03	19.55	8.45	8.09	0.02
17.00	8.08	7.72	0.03	19.60	8.46	8.10	0.02
17.05	8.09	7.73	0.03	19.65	8.47	8.11	0.02
17.10	8.10	7.74	0.03	19.70	8.47	8.11	0.02
17.15	8.10	7.74	0.03	19.75	8.48	8.12	0.02
17.20	8.11	7.75	0.03	19.80	8.49	8.13	0.02
17.25	8.12	7.76	0.03	19.85	8.49	8.13	0.02
17.30	8.13	7.77	0.03	19.90	8.50	8.14	0.02
17.35	8.14	7.78	0.03	19.95	8.51	8.15	0.02
17.40	8.15	7.79	0.03	20.00	8.51	8.15	0.02
17.45	8.16	7.80	0.03	20.05	8.52	8.16	0.02
17.50	8.16	7.80	0.03	20.10	8.52	8.16	0.02
17.55	8.17	7.81	0.03	20.15	8.53	8.17	0.02
17.60	8.18	7.82	0.03	20.20	8.54	8.18	0.02
17.65	8.19	7.83	0.03	20.25	8.54	8.18	0.02
17.70	8.20	7.84	0.03	20.30	8.55	8.19	0.02
17.75	8.20	7.84	0.03	20.35	8.56	8.20	0.02
17.80	8.21	7.85	0.03	20.40	8.56	8.20	0.02
17.85	8.22	7.86	0.03	20.45	8.57	8.21	0.02
17.90	8.23	7.87	0.03	20.50	8.57	8.21	0.02
17.95	8.23	7.87	0.03	20.55	8.58	8.22	0.02
18.00	8.24	7.88	0.03	20.60	8.59	8.23	0.02
18.05	8.25	7.89	0.02	20.65	8.59	8.23	0.02
18.10	8.26	7.90	0.02	20.70	8.60	8.24	0.02
18.15	8.26	7.90	0.02	20.75	8.60	8.24	0.02

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	8.61	8.25	0.02	23.40	8.89	8.53	0.02
20.85	8.62	8.26	0.02	23.45	8.90	8.54	0.02
20.90	8.62	8.26	0.02	23.50	8.90	8.54	0.02
20.95	8.63	8.27	0.02	23.55	8.91	8.55	0.02
21.00	8.63	8.27	0.02	23.60	8.91	8.55	0.02
21.05	8.64	8.28	0.02	23.65	8.92	8.55	0.02
21.10	8.65	8.29	0.02	23.70	8.92	8.56	0.02
21.15	8.65	8.29	0.02	23.75	8.92	8.56	0.02
21.20	8.66	8.30	0.02	23.80	8.93	8.57	0.02
21.25	8.66	8.30	0.02	23.85	8.93	8.57	0.02
21.30	8.67	8.31	0.02	23.90	8.94	8.58	0.02
21.35	8.67	8.31	0.02	23.95	8.94	8.58	0.02
21.40	8.68	8.32	0.02	24.00	**8.95**	**8.59**	0.02
21.45	8.69	8.33	0.02				
21.50	8.69	8.33	0.02				
21.55	8.70	8.34	0.02				
21.60	8.70	8.34	0.02				
21.65	8.71	8.35	0.02				
21.70	8.71	8.35	0.02				
21.75	8.72	8.36	0.02				
21.80	8.73	8.37	0.02				
21.85	8.73	8.37	0.02				
21.90	8.74	8.38	0.02				
21.95	8.74	8.38	0.02				
22.00	8.75	8.39	0.02				
22.05	8.75	8.39	0.02				
22.10	8.76	8.40	0.02				
22.15	8.76	8.40	0.02				
22.20	8.77	8.41	0.02				
22.25	8.77	8.41	0.02				
22.30	8.78	8.42	0.02				
22.35	8.79	8.42	0.02				
22.40	8.79	8.43	0.02				
22.45	8.80	8.44	0.02				
22.50	8.80	8.44	0.02				
22.55	8.81	8.45	0.02				
22.60	8.81	8.45	0.02				
22.65	8.82	8.46	0.02				
22.70	8.82	8.46	0.02				
22.75	8.83	8.47	0.02				
22.80	8.83	8.47	0.02				
22.85	8.84	8.48	0.02				
22.90	8.84	8.48	0.02				
22.95	8.85	8.49	0.02				
23.00	8.85	8.49	0.02				
23.05	8.86	8.50	0.02				
23.10	8.86	8.50	0.02				
23.15	8.87	8.51	0.02				
23.20	8.87	8.51	0.02				
23.25	8.88	8.52	0.02				
23.30	8.88	8.52	0.02				
23.35	8.89	8.53	0.02				

Summary for Subcatchment EDA4 PERV: EDA4 PERV

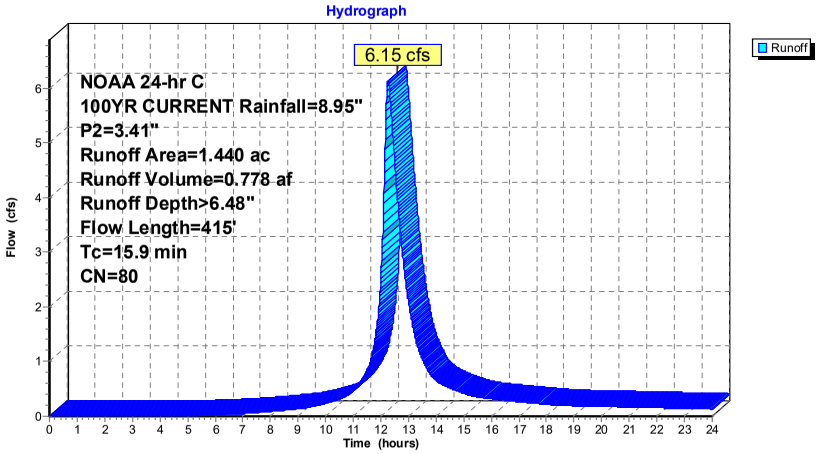
Runoff = 6.15 cfs @ 12.26 hrs, Volume= 0.778 af, Depth> 6.48"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR CURRENT Rainfall=8.95", P2=3.41"

Area (ac)	CN	Description
1.440	80	>75% Grass cover, Good, HSG D
1.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.7	100	0.0080	0.12		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
1.1	115	0.0140	1.77		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
0.5	100	0.0039	3.22	5.69	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.6	100	0.0020	2.79	8.77	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
15.9	415	Total			

Subcatchment EDA4 PERV: EDA4 PERV



Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.27	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.28	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.28	0.00	0.00
0.15	0.02	0.00	0.00	2.75	0.29	0.00	0.00
0.20	0.02	0.00	0.00	2.80	0.29	0.00	0.00
0.25	0.03	0.00	0.00	2.85	0.30	0.00	0.00
0.30	0.03	0.00	0.00	2.90	0.30	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.31	0.00	0.00
0.40	0.04	0.00	0.00	3.00	0.32	0.00	0.00
0.45	0.04	0.00	0.00	3.05	0.32	0.00	0.00
0.50	0.05	0.00	0.00	3.10	0.33	0.00	0.00
0.55	0.05	0.00	0.00	3.15	0.33	0.00	0.00
0.60	0.06	0.00	0.00	3.20	0.34	0.00	0.00
0.65	0.06	0.00	0.00	3.25	0.35	0.00	0.00
0.70	0.07	0.00	0.00	3.30	0.35	0.00	0.00
0.75	0.07	0.00	0.00	3.35	0.36	0.00	0.00
0.80	0.08	0.00	0.00	3.40	0.36	0.00	0.00
0.85	0.08	0.00	0.00	3.45	0.37	0.00	0.00
0.90	0.09	0.00	0.00	3.50	0.38	0.00	0.00
0.95	0.09	0.00	0.00	3.55	0.38	0.00	0.00
1.00	0.10	0.00	0.00	3.60	0.39	0.00	0.00
1.05	0.10	0.00	0.00	3.65	0.39	0.00	0.00
1.10	0.11	0.00	0.00	3.70	0.40	0.00	0.00
1.15	0.11	0.00	0.00	3.75	0.41	0.00	0.00
1.20	0.12	0.00	0.00	3.80	0.41	0.00	0.00
1.25	0.12	0.00	0.00	3.85	0.42	0.00	0.00
1.30	0.13	0.00	0.00	3.90	0.43	0.00	0.00
1.35	0.13	0.00	0.00	3.95	0.43	0.00	0.00
1.40	0.14	0.00	0.00	4.00	0.44	0.00	0.00
1.45	0.14	0.00	0.00	4.05	0.44	0.00	0.00
1.50	0.15	0.00	0.00	4.10	0.45	0.00	0.00
1.55	0.15	0.00	0.00	4.15	0.46	0.00	0.00
1.60	0.16	0.00	0.00	4.20	0.46	0.00	0.00
1.65	0.16	0.00	0.00	4.25	0.47	0.00	0.00
1.70	0.17	0.00	0.00	4.30	0.48	0.00	0.00
1.75	0.18	0.00	0.00	4.35	0.48	0.00	0.00
1.80	0.18	0.00	0.00	4.40	0.49	0.00	0.00
1.85	0.19	0.00	0.00	4.45	0.50	0.00	0.00
1.90	0.19	0.00	0.00	4.50	0.50	0.00	0.00
1.95	0.20	0.00	0.00	4.55	0.51	0.00	0.00
2.00	0.20	0.00	0.00	4.60	0.52	0.00	0.00
2.05	0.21	0.00	0.00	4.65	0.52	0.00	0.00
2.10	0.21	0.00	0.00	4.70	0.53	0.00	0.00
2.15	0.22	0.00	0.00	4.75	0.54	0.00	0.00
2.20	0.22	0.00	0.00	4.80	0.54	0.00	0.00
2.25	0.23	0.00	0.00	4.85	0.55	0.00	0.00
2.30	0.24	0.00	0.00	4.90	0.56	0.00	0.00
2.35	0.24	0.00	0.00	4.95	0.56	0.00	0.00
2.40	0.25	0.00	0.00	5.00	0.57	0.00	0.00
2.45	0.25	0.00	0.00	5.05	0.58	0.00	0.00
2.50	0.26	0.00	0.00	5.10	0.58	0.00	0.01
2.55	0.26	0.00	0.00	5.15	0.59	0.00	0.01

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.60	0.00	0.01	7.80	1.03	0.09	0.08
5.25	0.60	0.00	0.01	7.85	1.04	0.10	0.08
5.30	0.61	0.00	0.01	7.90	1.05	0.10	0.08
5.35	0.62	0.01	0.01	7.95	1.06	0.10	0.09
5.40	0.62	0.01	0.01	8.00	1.07	0.11	0.09
5.45	0.63	0.01	0.01	8.05	1.08	0.11	0.09
5.50	0.64	0.01	0.01	8.10	1.09	0.11	0.09
5.55	0.65	0.01	0.01	8.15	1.11	0.12	0.10
5.60	0.65	0.01	0.01	8.20	1.12	0.12	0.10
5.65	0.66	0.01	0.02	8.25	1.13	0.13	0.10
5.70	0.67	0.01	0.02	8.30	1.14	0.13	0.10
5.75	0.67	0.01	0.02	8.35	1.15	0.13	0.10
5.80	0.68	0.01	0.02	8.40	1.16	0.14	0.11
5.85	0.69	0.01	0.02	8.45	1.17	0.14	0.11
5.90	0.69	0.01	0.02	8.50	1.19	0.15	0.11
5.95	0.70	0.02	0.02	8.55	1.20	0.15	0.11
6.00	0.71	0.02	0.02	8.60	1.21	0.16	0.12
6.05	0.72	0.02	0.02	8.65	1.22	0.16	0.12
6.10	0.72	0.02	0.02	8.70	1.23	0.17	0.12
6.15	0.73	0.02	0.03	8.75	1.25	0.17	0.12
6.20	0.74	0.02	0.03	8.80	1.26	0.18	0.13
6.25	0.75	0.02	0.03	8.85	1.27	0.18	0.13
6.30	0.75	0.02	0.03	8.90	1.28	0.19	0.13
6.35	0.76	0.02	0.03	8.95	1.29	0.19	0.13
6.40	0.77	0.03	0.03	9.00	1.31	0.20	0.14
6.45	0.78	0.03	0.03	9.05	1.32	0.20	0.14
6.50	0.79	0.03	0.03	9.10	1.33	0.21	0.14
6.55	0.79	0.03	0.04	9.15	1.35	0.21	0.14
6.60	0.80	0.03	0.04	9.20	1.36	0.22	0.15
6.65	0.81	0.03	0.04	9.25	1.38	0.23	0.15
6.70	0.82	0.04	0.04	9.30	1.39	0.23	0.16
6.75	0.83	0.04	0.04	9.35	1.41	0.24	0.16
6.80	0.84	0.04	0.04	9.40	1.42	0.25	0.17
6.85	0.85	0.04	0.04	9.45	1.44	0.26	0.17
6.90	0.85	0.04	0.05	9.50	1.45	0.26	0.18
6.95	0.86	0.05	0.05	9.55	1.47	0.27	0.18
7.00	0.87	0.05	0.05	9.60	1.49	0.28	0.19
7.05	0.88	0.05	0.05	9.65	1.50	0.29	0.19
7.10	0.89	0.05	0.05	9.70	1.52	0.30	0.20
7.15	0.90	0.06	0.06	9.75	1.54	0.30	0.21
7.20	0.91	0.06	0.06	9.80	1.56	0.31	0.21
7.25	0.92	0.06	0.06	9.85	1.57	0.32	0.22
7.30	0.93	0.06	0.06	9.90	1.59	0.33	0.23
7.35	0.94	0.07	0.06	9.95	1.61	0.34	0.23
7.40	0.95	0.07	0.06	10.00	1.63	0.35	0.24
7.45	0.96	0.07	0.07	10.05	1.65	0.36	0.25
7.50	0.97	0.07	0.07	10.10	1.67	0.37	0.25
7.55	0.98	0.08	0.07	10.15	1.69	0.39	0.26
7.60	0.99	0.08	0.07	10.20	1.71	0.40	0.27
7.65	1.00	0.08	0.07	10.25	1.73	0.41	0.28
7.70	1.01	0.09	0.08	10.30	1.76	0.42	0.28
7.75	1.02	0.09	0.08	10.35	1.78	0.43	0.29

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.80	0.44	0.30	13.00	6.80	4.51	2.10
10.45	1.82	0.46	0.31	13.05	6.84	4.54	1.95
10.50	1.84	0.47	0.32	13.10	6.87	4.58	1.80
10.55	1.87	0.48	0.32	13.15	6.91	4.61	1.67
10.60	1.89	0.50	0.33	13.20	6.94	4.64	1.54
10.65	1.92	0.52	0.35	13.25	6.97	4.67	1.43
10.70	1.95	0.53	0.36	13.30	7.00	4.69	1.34
10.75	1.98	0.55	0.37	13.35	7.03	4.72	1.25
10.80	2.01	0.57	0.39	13.40	7.06	4.75	1.18
10.85	2.04	0.59	0.41	13.45	7.08	4.77	1.11
10.90	2.08	0.61	0.43	13.50	7.11	4.79	1.05
10.95	2.11	0.63	0.45	13.55	7.13	4.81	0.99
11.00	2.15	0.65	0.47	13.60	7.15	4.83	0.94
11.05	2.19	0.68	0.50	13.65	7.17	4.85	0.89
11.10	2.23	0.71	0.52	13.70	7.19	4.87	0.84
11.15	2.27	0.74	0.55	13.75	7.22	4.89	0.80
11.20	2.32	0.77	0.58	13.80	7.24	4.91	0.76
11.25	2.37	0.80	0.62	13.85	7.26	4.93	0.73
11.30	2.42	0.83	0.66	13.90	7.28	4.95	0.70
11.35	2.47	0.87	0.70	13.95	7.30	4.97	0.68
11.40	2.53	0.91	0.75	14.00	7.32	4.99	0.65
11.45	2.59	0.95	0.79	14.05	7.34	5.01	0.64
11.50	2.64	0.99	0.84	14.10	7.36	5.02	0.62
11.55	2.74	1.06	0.89	14.15	7.38	5.04	0.60
11.60	2.83	1.12	0.96	14.20	7.39	5.06	0.59
11.65	2.92	1.19	1.06	14.25	7.41	5.08	0.57
11.70	3.02	1.26	1.18	14.30	7.43	5.09	0.56
11.75	3.15	1.36	1.30	14.35	7.45	5.11	0.55
11.80	3.28	1.46	1.44	14.40	7.46	5.12	0.54
11.85	3.46	1.60	1.62	14.45	7.48	5.14	0.53
11.90	3.64	1.75	1.84	14.50	7.50	5.16	0.52
11.95	3.95	2.00	2.12	14.55	7.51	5.17	0.51
12.00	4.27	2.26	2.53	14.60	7.53	5.18	0.50
12.05	4.79	2.71	3.08	14.65	7.54	5.20	0.49
12.10	5.31	3.17	3.89	14.70	7.56	5.21	0.48
12.15	5.49	3.33	4.88	14.75	7.57	5.23	0.47
12.20	5.67	3.49	5.72	14.80	7.59	5.24	0.46
12.25	5.80	3.60	**6.11**	14.85	7.60	5.25	0.45
12.30	5.93	3.72	**6.04**	14.90	7.62	5.27	0.44
12.35	6.03	3.81	5.74	14.95	7.63	5.28	0.43
12.40	6.12	3.89	5.39	15.00	7.64	5.29	0.42
12.45	6.21	3.98	5.02	15.05	7.66	5.30	0.41
12.50	6.31	4.06	4.66	15.10	7.67	5.31	0.40
12.55	6.36	4.11	4.33	15.15	7.68	5.33	0.40
12.60	6.42	4.16	4.02	15.20	7.69	5.34	0.39
12.65	6.48	4.21	3.71	15.25	7.70	5.35	0.38
12.70	6.53	4.26	3.41	15.30	7.72	5.36	0.37
12.75	6.58	4.31	3.12	15.35	7.73	5.37	0.37
12.80	6.63	4.36	2.88	15.40	7.74	5.38	0.36
12.85	6.68	4.40	2.65	15.45	7.75	5.39	0.35
12.90	6.72	4.44	2.45	15.50	7.76	5.40	0.35
12.95	6.76	4.48	2.27	15.55	7.78	5.42	0.35

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	7.79	5.43	0.34	18.20	8.27	5.88	0.21
15.65	7.80	5.44	0.34	18.25	8.28	5.88	0.21
15.70	7.81	5.45	0.33	18.30	8.28	5.89	0.21
15.75	7.82	5.46	0.33	18.35	8.29	5.90	0.20
15.80	7.83	5.47	0.33	18.40	8.30	5.90	0.20
15.85	7.84	5.48	0.32	18.45	8.30	5.91	0.20
15.90	7.86	5.49	0.32	18.50	8.31	5.92	0.20
15.95	7.87	5.50	0.32	18.55	8.32	5.92	0.20
16.00	7.88	5.51	0.32	18.60	8.33	5.93	0.20
16.05	7.89	5.52	0.31	18.65	8.33	5.94	0.20
16.10	7.90	5.53	0.31	18.70	8.34	5.94	0.20
16.15	7.91	5.54	0.31	18.75	8.35	5.95	0.19
16.20	7.92	5.55	0.31	18.80	8.35	5.96	0.19
16.25	7.93	5.56	0.30	18.85	8.36	5.96	0.19
16.30	7.94	5.57	0.30	18.90	8.37	5.97	0.19
16.35	7.95	5.58	0.30	18.95	8.37	5.98	0.19
16.40	7.96	5.59	0.30	19.00	8.38	5.98	0.19
16.45	7.97	5.60	0.29	19.05	8.39	5.99	0.19
16.50	7.98	5.61	0.29	19.10	8.39	6.00	0.19
16.55	7.99	5.62	0.29	19.15	8.40	6.00	0.19
16.60	8.00	5.63	0.29	19.20	8.41	6.01	0.19
16.65	8.01	5.64	0.28	19.25	8.41	6.01	0.19
16.70	8.02	5.64	0.28	19.30	8.42	6.02	0.19
16.75	8.03	5.65	0.28	19.35	8.43	6.03	0.19
16.80	8.04	5.66	0.28	19.40	8.43	6.03	0.19
16.85	8.05	5.67	0.27	19.45	8.44	6.04	0.18
16.90	8.06	5.68	0.27	19.50	8.45	6.05	0.18
16.95	8.07	5.69	0.27	19.55	8.45	6.05	0.18
17.00	8.08	5.70	0.27	19.60	8.46	6.06	0.18
17.05	8.09	5.71	0.26	19.65	8.47	6.06	0.18
17.10	8.10	5.71	0.26	19.70	8.47	6.07	0.18
17.15	8.10	5.72	0.26	19.75	8.48	6.08	0.18
17.20	8.11	5.73	0.26	19.80	8.49	6.08	0.18
17.25	8.12	5.74	0.25	19.85	8.49	6.09	0.18
17.30	8.13	5.75	0.25	19.90	8.50	6.09	0.18
17.35	8.14	5.75	0.25	19.95	8.51	6.10	0.18
17.40	8.15	5.76	0.25	20.00	8.51	6.11	0.18
17.45	8.16	5.77	0.25	20.05	8.52	6.11	0.18
17.50	8.16	5.78	0.24	20.10	8.52	6.12	0.18
17.55	8.17	5.79	0.24	20.15	8.53	6.12	0.18
17.60	8.18	5.79	0.24	20.20	8.54	6.13	0.18
17.65	8.19	5.80	0.24	20.25	8.54	6.14	0.18
17.70	8.20	5.81	0.23	20.30	8.55	6.14	0.17
17.75	8.20	5.82	0.23	20.35	8.56	6.15	0.17
17.80	8.21	5.82	0.23	20.40	8.56	6.15	0.17
17.85	8.22	5.83	0.23	20.45	8.57	6.16	0.17
17.90	8.23	5.84	0.22	20.50	8.57	6.17	0.17
17.95	8.23	5.84	0.22	20.55	8.58	6.17	0.17
18.00	8.24	5.85	0.22	20.60	8.59	6.18	0.17
18.05	8.25	5.86	0.22	20.65	8.59	6.18	0.17
18.10	8.26	5.86	0.21	20.70	8.60	6.19	0.17
18.15	8.26	5.87	0.21	20.75	8.60	6.19	0.17

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

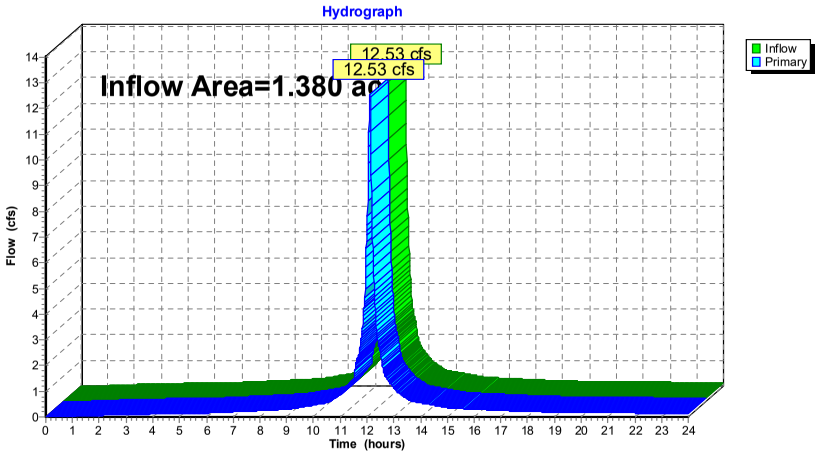
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	8.61	6.20	0.17	23.40	8.89	6.47	0.14
20.85	8.62	6.21	0.17	23.45	8.90	6.47	0.14
20.90	8.62	6.21	0.17	23.50	8.90	6.47	0.14
20.95	8.63	6.22	0.17	23.55	8.91	6.48	0.14
21.00	8.63	6.22	0.17	23.60	8.91	6.48	0.14
21.05	8.64	6.23	0.17	23.65	8.92	6.49	0.13
21.10	8.65	6.23	0.17	23.70	8.92	6.49	0.13
21.15	8.65	6.24	0.16	23.75	8.92	6.50	0.13
21.20	8.66	6.24	0.16	23.80	8.93	6.50	0.13
21.25	8.66	6.25	0.16	23.85	8.93	6.51	0.13
21.30	8.67	6.26	0.16	23.90	8.94	6.51	0.13
21.35	8.67	6.26	0.16	23.95	8.94	6.52	0.13
21.40	8.68	6.27	0.16	24.00	**8.95**	**6.52**	0.13
21.45	8.69	6.27	0.16				
21.50	8.69	6.28	0.16				
21.55	8.70	6.28	0.16				
21.60	8.70	6.29	0.16				
21.65	8.71	6.29	0.16				
21.70	8.71	6.30	0.16				
21.75	8.72	6.30	0.16				
21.80	8.73	6.31	0.16				
21.85	8.73	6.31	0.16				
21.90	8.74	6.32	0.16				
21.95	8.74	6.32	0.16				
22.00	8.75	6.33	0.15				
22.05	8.75	6.33	0.15				
22.10	8.76	6.34	0.15				
22.15	8.76	6.34	0.15				
22.20	8.77	6.35	0.15				
22.25	8.77	6.35	0.15				
22.30	8.78	6.36	0.15				
22.35	8.79	6.36	0.15				
22.40	8.79	6.37	0.15				
22.45	8.80	6.37	0.15				
22.50	8.80	6.38	0.15				
22.55	8.81	6.38	0.15				
22.60	8.81	6.39	0.15				
22.65	8.82	6.39	0.15				
22.70	8.82	6.40	0.15				
22.75	8.83	6.40	0.15				
22.80	8.83	6.41	0.14				
22.85	8.84	6.41	0.14				
22.90	8.84	6.42	0.14				
22.95	8.85	6.42	0.14				
23.00	8.85	6.43	0.14				
23.05	8.86	6.43	0.14				
23.10	8.86	6.44	0.14				
23.15	8.87	6.44	0.14				
23.20	8.87	6.45	0.14				
23.25	8.88	6.45	0.14				
23.30	8.88	6.46	0.14				
23.35	8.89	6.46	0.14				

Summary for Link E1A: E1A

Inflow Area = 1.380 ac, 54.35% Impervious, Inflow Depth > 8.16" for 100YR CURRENT event
Inflow = 12.53 cfs @ 12.11 hrs, Volume= 0.939 af
Primary = 12.53 cfs @ 12.11 hrs, Volume= 0.939 af, Atten= 0%, Lag= 0.0 min
Routed to Link EPOI-1 : EPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link E1A: E1A



Hydrograph for Link E1A: E1A

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.08	0.00	0.08
0.05	0.00	0.00	0.00	2.65	0.08	0.00	0.08
0.10	0.00	0.00	0.00	2.70	0.08	0.00	0.08
0.15	0.00	0.00	0.00	2.75	0.08	0.00	0.08
0.20	0.00	0.00	0.00	2.80	0.08	0.00	0.08
0.25	0.00	0.00	0.00	2.85	0.09	0.00	0.09
0.30	0.00	0.00	0.00	2.90	0.09	0.00	0.09
0.35	0.00	0.00	0.00	2.95	0.09	0.00	0.09
0.40	0.00	0.00	0.00	3.00	0.09	0.00	0.09
0.45	0.00	0.00	0.00	3.05	0.09	0.00	0.09
0.50	0.00	0.00	0.00	3.10	0.09	0.00	0.09
0.55	0.00	0.00	0.00	3.15	0.09	0.00	0.09
0.60	0.00	0.00	0.00	3.20	0.09	0.00	0.09
0.65	0.00	0.00	0.00	3.25	0.10	0.00	0.10
0.70	0.00	0.00	0.00	3.30	0.10	0.00	0.10
0.75	0.00	0.00	0.00	3.35	0.10	0.00	0.10
0.80	0.01	0.00	0.01	3.40	0.10	0.00	0.10
0.85	0.01	0.00	0.01	3.45	0.10	0.00	0.10
0.90	0.01	0.00	0.01	3.50	0.10	0.00	0.10
0.95	0.01	0.00	0.01	3.55	0.10	0.00	0.10
1.00	0.02	0.00	0.02	3.60	0.10	0.00	0.10
1.05	0.02	0.00	0.02	3.65	0.10	0.00	0.10
1.10	0.02	0.00	0.02	3.70	0.10	0.00	0.10
1.15	0.03	0.00	0.03	3.75	0.11	0.00	0.11
1.20	0.03	0.00	0.03	3.80	0.11	0.00	0.11
1.25	0.03	0.00	0.03	3.85	0.11	0.00	0.11
1.30	0.03	0.00	0.03	3.90	0.11	0.00	0.11
1.35	0.04	0.00	0.04	3.95	0.11	0.00	0.11
1.40	0.04	0.00	0.04	4.00	0.11	0.00	0.11
1.45	0.04	0.00	0.04	4.05	0.11	0.00	0.11
1.50	0.04	0.00	0.04	4.10	0.11	0.00	0.11
1.55	0.04	0.00	0.04	4.15	0.11	0.00	0.11
1.60	0.05	0.00	0.05	4.20	0.11	0.00	0.11
1.65	0.05	0.00	0.05	4.25	0.12	0.00	0.12
1.70	0.05	0.00	0.05	4.30	0.12	0.00	0.12
1.75	0.05	0.00	0.05	4.35	0.12	0.00	0.12
1.80	0.05	0.00	0.05	4.40	0.12	0.00	0.12
1.85	0.06	0.00	0.06	4.45	0.12	0.00	0.12
1.90	0.06	0.00	0.06	4.50	0.12	0.00	0.12
1.95	0.06	0.00	0.06	4.55	0.12	0.00	0.12
2.00	0.06	0.00	0.06	4.60	0.12	0.00	0.12
2.05	0.06	0.00	0.06	4.65	0.12	0.00	0.12
2.10	0.06	0.00	0.06	4.70	0.12	0.00	0.12
2.15	0.07	0.00	0.07	4.75	0.12	0.00	0.12
2.20	0.07	0.00	0.07	4.80	0.13	0.00	0.13
2.25	0.07	0.00	0.07	4.85	0.13	0.00	0.13
2.30	0.07	0.00	0.07	4.90	0.13	0.00	0.13
2.35	0.07	0.00	0.07	4.95	0.13	0.00	0.13
2.40	0.07	0.00	0.07	5.00	0.13	0.00	0.13
2.45	0.07	0.00	0.07	5.05	0.13	0.00	0.13
2.50	0.08	0.00	0.08	5.10	0.13	0.00	0.13
2.55	0.08	0.00	0.08	5.15	0.13	0.00	0.13

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.13	0.00	0.13	7.80	0.23	0.00	0.23
5.25	0.13	0.00	0.13	7.85	0.24	0.00	0.24
5.30	0.14	0.00	0.14	7.90	0.24	0.00	0.24
5.35	0.14	0.00	0.14	7.95	0.24	0.00	0.24
5.40	0.14	0.00	0.14	8.00	0.24	0.00	0.24
5.45	0.14	0.00	0.14	8.05	0.25	0.00	0.25
5.50	0.14	0.00	0.14	8.10	0.25	0.00	0.25
5.55	0.14	0.00	0.14	8.15	0.25	0.00	0.25
5.60	0.14	0.00	0.14	8.20	0.25	0.00	0.25
5.65	0.14	0.00	0.14	8.25	0.26	0.00	0.26
5.70	0.14	0.00	0.14	8.30	0.26	0.00	0.26
5.75	0.14	0.00	0.14	8.35	0.26	0.00	0.26
5.80	0.14	0.00	0.14	8.40	0.26	0.00	0.26
5.85	0.15	0.00	0.15	8.45	0.27	0.00	0.27
5.90	0.15	0.00	0.15	8.50	0.27	0.00	0.27
5.95	0.15	0.00	0.15	8.55	0.27	0.00	0.27
6.00	0.15	0.00	0.15	8.60	0.27	0.00	0.27
6.05	0.15	0.00	0.15	8.65	0.28	0.00	0.28
6.10	0.15	0.00	0.15	8.70	0.28	0.00	0.28
6.15	0.15	0.00	0.15	8.75	0.28	0.00	0.28
6.20	0.16	0.00	0.16	8.80	0.28	0.00	0.28
6.25	0.16	0.00	0.16	8.85	0.29	0.00	0.29
6.30	0.16	0.00	0.16	8.90	0.29	0.00	0.29
6.35	0.16	0.00	0.16	8.95	0.29	0.00	0.29
6.40	0.17	0.00	0.17	9.00	0.30	0.00	0.30
6.45	0.17	0.00	0.17	9.05	0.30	0.00	0.30
6.50	0.17	0.00	0.17	9.10	0.31	0.00	0.31
6.55	0.17	0.00	0.17	9.15	0.32	0.00	0.32
6.60	0.18	0.00	0.18	9.20	0.33	0.00	0.33
6.65	0.18	0.00	0.18	9.25	0.33	0.00	0.33
6.70	0.18	0.00	0.18	9.30	0.34	0.00	0.34
6.75	0.18	0.00	0.18	9.35	0.35	0.00	0.35
6.80	0.18	0.00	0.18	9.40	0.36	0.00	0.36
6.85	0.19	0.00	0.19	9.45	0.37	0.00	0.37
6.90	0.19	0.00	0.19	9.50	0.38	0.00	0.38
6.95	0.19	0.00	0.19	9.55	0.39	0.00	0.39
7.00	0.19	0.00	0.19	9.60	0.40	0.00	0.40
7.05	0.20	0.00	0.20	9.65	0.40	0.00	0.40
7.10	0.20	0.00	0.20	9.70	0.41	0.00	0.41
7.15	0.20	0.00	0.20	9.75	0.42	0.00	0.42
7.20	0.20	0.00	0.20	9.80	0.43	0.00	0.43
7.25	0.21	0.00	0.21	9.85	0.44	0.00	0.44
7.30	0.21	0.00	0.21	9.90	0.45	0.00	0.45
7.35	0.21	0.00	0.21	9.95	0.46	0.00	0.46
7.40	0.21	0.00	0.21	10.00	0.47	0.00	0.47
7.45	0.22	0.00	0.22	10.05	0.48	0.00	0.48
7.50	0.22	0.00	0.22	10.10	0.48	0.00	0.48
7.55	0.22	0.00	0.22	10.15	0.49	0.00	0.49
7.60	0.22	0.00	0.22	10.20	0.50	0.00	0.50
7.65	0.23	0.00	0.23	10.25	0.51	0.00	0.51
7.70	0.23	0.00	0.23	10.30	0.52	0.00	0.52
7.75	0.23	0.00	0.23	10.35	0.53	0.00	0.53

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.54	0.00	0.54	13.00	1.14	0.00	1.14
10.45	0.55	0.00	0.55	13.05	1.07	0.00	1.07
10.50	0.56	0.00	0.56	13.10	1.01	0.00	1.01
10.55	0.58	0.00	0.58	13.15	0.96	0.00	0.96
10.60	0.61	0.00	0.61	13.20	0.93	0.00	0.93
10.65	0.64	0.00	0.64	13.25	0.89	0.00	0.89
10.70	0.67	0.00	0.67	13.30	0.85	0.00	0.85
10.75	0.71	0.00	0.71	13.35	0.81	0.00	0.81
10.80	0.74	0.00	0.74	13.40	0.78	0.00	0.78
10.85	0.78	0.00	0.78	13.45	0.74	0.00	0.74
10.90	0.81	0.00	0.81	13.50	0.71	0.00	0.71
10.95	0.85	0.00	0.85	13.55	0.67	0.00	0.67
11.00	0.88	0.00	0.88	13.60	0.64	0.00	0.64
11.05	0.93	0.00	0.93	13.65	0.62	0.00	0.62
11.10	0.99	0.00	0.99	13.70	0.61	0.00	0.61
11.15	1.05	0.00	1.05	13.75	0.60	0.00	0.60
11.20	1.11	0.00	1.11	13.80	0.59	0.00	0.59
11.25	1.18	0.00	1.18	13.85	0.58	0.00	0.58
11.30	1.24	0.00	1.24	13.90	0.57	0.00	0.57
11.35	1.31	0.00	1.31	13.95	0.56	0.00	0.56
11.40	1.37	0.00	1.37	14.00	0.55	0.00	0.55
11.45	1.43	0.00	1.43	14.05	0.54	0.00	0.54
11.50	1.48	0.00	1.48	14.10	0.53	0.00	0.53
11.55	1.79	0.00	1.79	14.15	0.52	0.00	0.52
11.60	2.11	0.00	2.11	14.20	0.52	0.00	0.52
11.65	2.30	0.00	2.30	14.25	0.51	0.00	0.51
11.70	2.41	0.00	2.41	14.30	0.50	0.00	0.50
11.75	2.79	0.00	2.79	14.35	0.49	0.00	0.49
11.80	3.16	0.00	3.16	14.40	0.48	0.00	0.48
11.85	3.79	0.00	3.79	14.45	0.47	0.00	0.47
11.90	4.37	0.00	4.37	14.50	0.46	0.00	0.46
11.95	5.84	0.00	5.84	14.55	0.45	0.00	0.45
12.00	7.27	0.00	7.27	14.60	0.44	0.00	0.44
12.05	9.88	0.00	9.88	14.65	0.43	0.00	0.43
12.10	**12.28**	0.00	**12.28**	14.70	0.42	0.00	0.42
12.15	**10.20**	0.00	**10.20**	14.75	0.41	0.00	0.41
12.20	7.28	0.00	7.28	14.80	0.41	0.00	0.41
12.25	5.47	0.00	5.47	14.85	0.40	0.00	0.40
12.30	4.32	0.00	4.32	14.90	0.39	0.00	0.39
12.35	3.51	0.00	3.51	14.95	0.38	0.00	0.38
12.40	2.96	0.00	2.96	15.00	0.37	0.00	0.37
12.45	2.68	0.00	2.68	15.05	0.36	0.00	0.36
12.50	2.55	0.00	2.55	15.10	0.35	0.00	0.35
12.55	2.19	0.00	2.19	15.15	0.34	0.00	0.34
12.60	1.85	0.00	1.85	15.20	0.34	0.00	0.34
12.65	1.67	0.00	1.67	15.25	0.34	0.00	0.34
12.70	1.56	0.00	1.56	15.30	0.34	0.00	0.34
12.75	1.47	0.00	1.47	15.35	0.33	0.00	0.33
12.80	1.41	0.00	1.41	15.40	0.33	0.00	0.33
12.85	1.33	0.00	1.33	15.45	0.33	0.00	0.33
12.90	1.28	0.00	1.28	15.50	0.33	0.00	0.33
12.95	1.20	0.00	1.20	15.55	0.32	0.00	0.32

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.32	0.00	0.32	18.20	0.20	0.00	0.20
15.65	0.32	0.00	0.32	18.25	0.20	0.00	0.20
15.70	0.32	0.00	0.32	18.30	0.20	0.00	0.20
15.75	0.31	0.00	0.31	18.35	0.20	0.00	0.20
15.80	0.31	0.00	0.31	18.40	0.19	0.00	0.19
15.85	0.31	0.00	0.31	18.45	0.19	0.00	0.19
15.90	0.31	0.00	0.31	18.50	0.19	0.00	0.19
15.95	0.30	0.00	0.30	18.55	0.19	0.00	0.19
16.00	0.30	0.00	0.30	18.60	0.19	0.00	0.19
16.05	0.30	0.00	0.30	18.65	0.19	0.00	0.19
16.10	0.30	0.00	0.30	18.70	0.19	0.00	0.19
16.15	0.29	0.00	0.29	18.75	0.19	0.00	0.19
16.20	0.29	0.00	0.29	18.80	0.19	0.00	0.19
16.25	0.29	0.00	0.29	18.85	0.19	0.00	0.19
16.30	0.29	0.00	0.29	18.90	0.19	0.00	0.19
16.35	0.28	0.00	0.28	18.95	0.19	0.00	0.19
16.40	0.28	0.00	0.28	19.00	0.19	0.00	0.19
16.45	0.28	0.00	0.28	19.05	0.19	0.00	0.19
16.50	0.28	0.00	0.28	19.10	0.19	0.00	0.19
16.55	0.27	0.00	0.27	19.15	0.19	0.00	0.19
16.60	0.27	0.00	0.27	19.20	0.18	0.00	0.18
16.65	0.27	0.00	0.27	19.25	0.18	0.00	0.18
16.70	0.27	0.00	0.27	19.30	0.18	0.00	0.18
16.75	0.27	0.00	0.27	19.35	0.18	0.00	0.18
16.80	0.26	0.00	0.26	19.40	0.18	0.00	0.18
16.85	0.26	0.00	0.26	19.45	0.18	0.00	0.18
16.90	0.26	0.00	0.26	19.50	0.18	0.00	0.18
16.95	0.26	0.00	0.26	19.55	0.18	0.00	0.18
17.00	0.25	0.00	0.25	19.60	0.18	0.00	0.18
17.05	0.25	0.00	0.25	19.65	0.18	0.00	0.18
17.10	0.25	0.00	0.25	19.70	0.18	0.00	0.18
17.15	0.25	0.00	0.25	19.75	0.18	0.00	0.18
17.20	0.24	0.00	0.24	19.80	0.18	0.00	0.18
17.25	0.24	0.00	0.24	19.85	0.18	0.00	0.18
17.30	0.24	0.00	0.24	19.90	0.18	0.00	0.18
17.35	0.24	0.00	0.24	19.95	0.18	0.00	0.18
17.40	0.23	0.00	0.23	20.00	0.18	0.00	0.18
17.45	0.23	0.00	0.23	20.05	0.17	0.00	0.17
17.50	0.23	0.00	0.23	20.10	0.17	0.00	0.17
17.55	0.23	0.00	0.23	20.15	0.17	0.00	0.17
17.60	0.22	0.00	0.22	20.20	0.17	0.00	0.17
17.65	0.22	0.00	0.22	20.25	0.17	0.00	0.17
17.70	0.22	0.00	0.22	20.30	0.17	0.00	0.17
17.75	0.22	0.00	0.22	20.35	0.17	0.00	0.17
17.80	0.21	0.00	0.21	20.40	0.17	0.00	0.17
17.85	0.21	0.00	0.21	20.45	0.17	0.00	0.17
17.90	0.21	0.00	0.21	20.50	0.17	0.00	0.17
17.95	0.21	0.00	0.21	20.55	0.17	0.00	0.17
18.00	0.20	0.00	0.20	20.60	0.17	0.00	0.17
18.05	0.20	0.00	0.20	20.65	0.17	0.00	0.17
18.10	0.20	0.00	0.20	20.70	0.17	0.00	0.17
18.15	0.20	0.00	0.20	20.75	0.17	0.00	0.17

Hydrograph for Link E1A: E1A (continued)

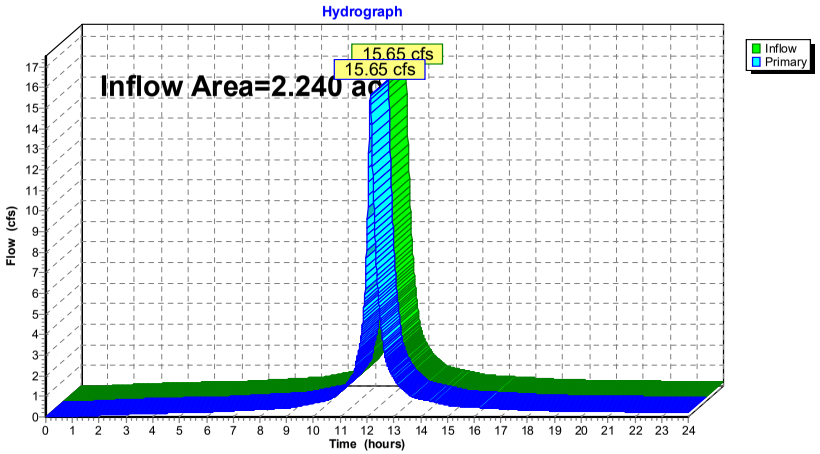
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.17	0.00	0.17	23.40	0.13	0.00	0.13
20.85	0.16	0.00	0.16	23.45	0.13	0.00	0.13
20.90	0.16	0.00	0.16	23.50	0.13	0.00	0.13
20.95	0.16	0.00	0.16	23.55	0.13	0.00	0.13
21.00	0.16	0.00	0.16	23.60	0.13	0.00	0.13
21.05	0.16	0.00	0.16	23.65	0.13	0.00	0.13
21.10	0.16	0.00	0.16	23.70	0.13	0.00	0.13
21.15	0.16	0.00	0.16	23.75	0.13	0.00	0.13
21.20	0.16	0.00	0.16	23.80	0.13	0.00	0.13
21.25	0.16	0.00	0.16	23.85	0.13	0.00	0.13
21.30	0.16	0.00	0.16	23.90	0.13	0.00	0.13
21.35	0.16	0.00	0.16	23.95	0.14	0.00	0.14
21.40	0.16	0.00	0.16	24.00	0.15	0.00	0.15
21.45	0.16	0.00	0.16				
21.50	0.16	0.00	0.16				
21.55	0.16	0.00	0.16				
21.60	0.16	0.00	0.16				
21.65	0.15	0.00	0.15				
21.70	0.15	0.00	0.15				
21.75	0.15	0.00	0.15				
21.80	0.15	0.00	0.15				
21.85	0.15	0.00	0.15				
21.90	0.15	0.00	0.15				
21.95	0.15	0.00	0.15				
22.00	0.15	0.00	0.15				
22.05	0.15	0.00	0.15				
22.10	0.15	0.00	0.15				
22.15	0.15	0.00	0.15				
22.20	0.15	0.00	0.15				
22.25	0.15	0.00	0.15				
22.30	0.15	0.00	0.15				
22.35	0.15	0.00	0.15				
22.40	0.15	0.00	0.15				
22.45	0.14	0.00	0.14				
22.50	0.14	0.00	0.14				
22.55	0.14	0.00	0.14				
22.60	0.14	0.00	0.14				
22.65	0.14	0.00	0.14				
22.70	0.14	0.00	0.14				
22.75	0.14	0.00	0.14				
22.80	0.14	0.00	0.14				
22.85	0.14	0.00	0.14				
22.90	0.14	0.00	0.14				
22.95	0.14	0.00	0.14				
23.00	0.14	0.00	0.14				
23.05	0.14	0.00	0.14				
23.10	0.14	0.00	0.14				
23.15	0.14	0.00	0.14				
23.20	0.14	0.00	0.14				
23.25	0.14	0.00	0.14				
23.30	0.13	0.00	0.13				
23.35	0.13	0.00	0.13				

Summary for Link E1B: E1B

Inflow Area = 2.240 ac, 27.23% Impervious, Inflow Depth > 7.60" for 100YR CURRENT event
Inflow = 15.65 cfs @ 12.12 hrs, Volume= 1.418 af
Primary = 15.65 cfs @ 12.12 hrs, Volume= 1.418 af, Atten= 0%, Lag= 0.0 min
Routed to Link EPOI-1 : EPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link E1B: E1B



Hydrograph for Link E1B: E1B

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.11	0.00	0.11
0.05	0.00	0.00	0.00	2.65	0.12	0.00	0.12
0.10	0.00	0.00	0.00	2.70	0.12	0.00	0.12
0.15	0.00	0.00	0.00	2.75	0.12	0.00	0.12
0.20	0.00	0.00	0.00	2.80	0.12	0.00	0.12
0.25	0.00	0.00	0.00	2.85	0.13	0.00	0.13
0.30	0.00	0.00	0.00	2.90	0.13	0.00	0.13
0.35	0.00	0.00	0.00	2.95	0.13	0.00	0.13
0.40	0.00	0.00	0.00	3.00	0.13	0.00	0.13
0.45	0.00	0.00	0.00	3.05	0.13	0.00	0.13
0.50	0.00	0.00	0.00	3.10	0.14	0.00	0.14
0.55	0.00	0.00	0.00	3.15	0.14	0.00	0.14
0.60	0.00	0.00	0.00	3.20	0.14	0.00	0.14
0.65	0.00	0.00	0.00	3.25	0.14	0.00	0.14
0.70	0.01	0.00	0.01	3.30	0.14	0.00	0.14
0.75	0.01	0.00	0.01	3.35	0.15	0.00	0.15
0.80	0.01	0.00	0.01	3.40	0.15	0.00	0.15
0.85	0.01	0.00	0.01	3.45	0.15	0.00	0.15
0.90	0.01	0.00	0.01	3.50	0.15	0.00	0.15
0.95	0.01	0.00	0.01	3.55	0.15	0.00	0.15
1.00	0.01	0.00	0.01	3.60	0.16	0.00	0.16
1.05	0.02	0.00	0.02	3.65	0.16	0.00	0.16
1.10	0.02	0.00	0.02	3.70	0.16	0.00	0.16
1.15	0.02	0.00	0.02	3.75	0.16	0.00	0.16
1.20	0.03	0.00	0.03	3.80	0.16	0.00	0.16
1.25	0.03	0.00	0.03	3.85	0.17	0.00	0.17
1.30	0.04	0.00	0.04	3.90	0.17	0.00	0.17
1.35	0.04	0.00	0.04	3.95	0.17	0.00	0.17
1.40	0.04	0.00	0.04	4.00	0.17	0.00	0.17
1.45	0.05	0.00	0.05	4.05	0.17	0.00	0.17
1.50	0.05	0.00	0.05	4.10	0.17	0.00	0.17
1.55	0.05	0.00	0.05	4.15	0.18	0.00	0.18
1.60	0.06	0.00	0.06	4.20	0.18	0.00	0.18
1.65	0.06	0.00	0.06	4.25	0.18	0.00	0.18
1.70	0.06	0.00	0.06	4.30	0.18	0.00	0.18
1.75	0.07	0.00	0.07	4.35	0.18	0.00	0.18
1.80	0.07	0.00	0.07	4.40	0.18	0.00	0.18
1.85	0.07	0.00	0.07	4.45	0.19	0.00	0.19
1.90	0.08	0.00	0.08	4.50	0.19	0.00	0.19
1.95	0.08	0.00	0.08	4.55	0.19	0.00	0.19
2.00	0.08	0.00	0.08	4.60	0.19	0.00	0.19
2.05	0.09	0.00	0.09	4.65	0.19	0.00	0.19
2.10	0.09	0.00	0.09	4.70	0.19	0.00	0.19
2.15	0.09	0.00	0.09	4.75	0.19	0.00	0.19
2.20	0.09	0.00	0.09	4.80	0.20	0.00	0.20
2.25	0.10	0.00	0.10	4.85	0.20	0.00	0.20
2.30	0.10	0.00	0.10	4.90	0.20	0.00	0.20
2.35	0.10	0.00	0.10	4.95	0.20	0.00	0.20
2.40	0.10	0.00	0.10	5.00	0.20	0.00	0.20
2.45	0.11	0.00	0.11	5.05	0.20	0.00	0.20
2.50	0.11	0.00	0.11	5.10	0.20	0.00	0.20
2.55	0.11	0.00	0.11	5.15	0.21	0.00	0.21

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.21	0.00	0.21	7.80	0.35	0.00	0.35
5.25	0.21	0.00	0.21	7.85	0.35	0.00	0.35
5.30	0.21	0.00	0.21	7.90	0.36	0.00	0.36
5.35	0.21	0.00	0.21	7.95	0.36	0.00	0.36
5.40	0.21	0.00	0.21	8.00	0.37	0.00	0.37
5.45	0.21	0.00	0.21	8.05	0.37	0.00	0.37
5.50	0.22	0.00	0.22	8.10	0.37	0.00	0.37
5.55	0.22	0.00	0.22	8.15	0.38	0.00	0.38
5.60	0.22	0.00	0.22	8.20	0.38	0.00	0.38
5.65	0.22	0.00	0.22	8.25	0.38	0.00	0.38
5.70	0.22	0.00	0.22	8.30	0.39	0.00	0.39
5.75	0.22	0.00	0.22	8.35	0.39	0.00	0.39
5.80	0.22	0.00	0.22	8.40	0.39	0.00	0.39
5.85	0.22	0.00	0.22	8.45	0.40	0.00	0.40
5.90	0.23	0.00	0.23	8.50	0.40	0.00	0.40
5.95	0.23	0.00	0.23	8.55	0.40	0.00	0.40
6.00	0.23	0.00	0.23	8.60	0.41	0.00	0.41
6.05	0.23	0.00	0.23	8.65	0.41	0.00	0.41
6.10	0.23	0.00	0.23	8.70	0.42	0.00	0.42
6.15	0.24	0.00	0.24	8.75	0.42	0.00	0.42
6.20	0.24	0.00	0.24	8.80	0.42	0.00	0.42
6.25	0.24	0.00	0.24	8.85	0.43	0.00	0.43
6.30	0.25	0.00	0.25	8.90	0.43	0.00	0.43
6.35	0.25	0.00	0.25	8.95	0.43	0.00	0.43
6.40	0.25	0.00	0.25	9.00	0.44	0.00	0.44
6.45	0.26	0.00	0.26	9.05	0.44	0.00	0.44
6.50	0.26	0.00	0.26	9.10	0.45	0.00	0.45
6.55	0.26	0.00	0.26	9.15	0.46	0.00	0.46
6.60	0.27	0.00	0.27	9.20	0.47	0.00	0.47
6.65	0.27	0.00	0.27	9.25	0.48	0.00	0.48
6.70	0.27	0.00	0.27	9.30	0.50	0.00	0.50
6.75	0.28	0.00	0.28	9.35	0.51	0.00	0.51
6.80	0.28	0.00	0.28	9.40	0.52	0.00	0.52
6.85	0.28	0.00	0.28	9.45	0.53	0.00	0.53
6.90	0.29	0.00	0.29	9.50	0.54	0.00	0.54
6.95	0.29	0.00	0.29	9.55	0.56	0.00	0.56
7.00	0.29	0.00	0.29	9.60	0.57	0.00	0.57
7.05	0.30	0.00	0.30	9.65	0.58	0.00	0.58
7.10	0.30	0.00	0.30	9.70	0.59	0.00	0.59
7.15	0.30	0.00	0.30	9.75	0.61	0.00	0.61
7.20	0.31	0.00	0.31	9.80	0.62	0.00	0.62
7.25	0.31	0.00	0.31	9.85	0.63	0.00	0.63
7.30	0.32	0.00	0.32	9.90	0.64	0.00	0.64
7.35	0.32	0.00	0.32	9.95	0.66	0.00	0.66
7.40	0.32	0.00	0.32	10.00	0.67	0.00	0.67
7.45	0.33	0.00	0.33	10.05	0.68	0.00	0.68
7.50	0.33	0.00	0.33	10.10	0.69	0.00	0.69
7.55	0.33	0.00	0.33	10.15	0.71	0.00	0.71
7.60	0.34	0.00	0.34	10.20	0.72	0.00	0.72
7.65	0.34	0.00	0.34	10.25	0.73	0.00	0.73
7.70	0.34	0.00	0.34	10.30	0.75	0.00	0.75
7.75	0.35	0.00	0.35	10.35	0.76	0.00	0.76

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.77	0.00	0.77	13.00	1.88	0.00	1.88
10.45	0.78	0.00	0.78	13.05	1.78	0.00	1.78
10.50	0.80	0.00	0.80	13.10	1.68	0.00	1.68
10.55	0.82	0.00	0.82	13.15	1.59	0.00	1.59
10.60	0.86	0.00	0.86	13.20	1.52	0.00	1.52
10.65	0.89	0.00	0.89	13.25	1.45	0.00	1.45
10.70	0.94	0.00	0.94	13.30	1.39	0.00	1.39
10.75	0.98	0.00	0.98	13.35	1.33	0.00	1.33
10.80	1.03	0.00	1.03	13.40	1.27	0.00	1.27
10.85	1.07	0.00	1.07	13.45	1.22	0.00	1.22
10.90	1.12	0.00	1.12	13.50	1.16	0.00	1.16
10.95	1.17	0.00	1.17	13.55	1.11	0.00	1.11
11.00	1.22	0.00	1.22	13.60	1.05	0.00	1.05
11.05	1.28	0.00	1.28	13.65	1.01	0.00	1.01
11.10	1.36	0.00	1.36	13.70	0.98	0.00	0.98
11.15	1.44	0.00	1.44	13.75	0.95	0.00	0.95
11.20	1.53	0.00	1.53	13.80	0.93	0.00	0.93
11.25	1.61	0.00	1.61	13.85	0.91	0.00	0.91
11.30	1.71	0.00	1.71	13.90	0.90	0.00	0.90
11.35	1.80	0.00	1.80	13.95	0.88	0.00	0.88
11.40	1.89	0.00	1.89	14.00	0.87	0.00	0.87
11.45	1.98	0.00	1.98	14.05	0.85	0.00	0.85
11.50	2.07	0.00	2.07	14.10	0.84	0.00	0.84
11.55	2.31	0.00	2.31	14.15	0.82	0.00	0.82
11.60	2.70	0.00	2.70	14.20	0.81	0.00	0.81
11.65	3.01	0.00	3.01	14.25	0.80	0.00	0.80
11.70	3.25	0.00	3.25	14.30	0.78	0.00	0.78
11.75	3.61	0.00	3.61	14.35	0.77	0.00	0.77
11.80	4.12	0.00	4.12	14.40	0.75	0.00	0.75
11.85	4.77	0.00	4.77	14.45	0.74	0.00	0.74
11.90	5.59	0.00	5.59	14.50	0.73	0.00	0.73
11.95	6.93	0.00	6.93	14.55	0.71	0.00	0.71
12.00	8.84	0.00	8.84	14.60	0.70	0.00	0.70
12.05	11.43	0.00	11.43	14.65	0.68	0.00	0.68
12.10	**14.81**	0.00	**14.81**	14.70	0.67	0.00	0.67
12.15	**15.15**	0.00	**15.15**	14.75	0.66	0.00	0.66
12.20	12.63	0.00	12.63	14.80	0.64	0.00	0.64
12.25	10.48	0.00	10.48	14.85	0.63	0.00	0.63
12.30	8.75	0.00	8.75	14.90	0.61	0.00	0.61
12.35	7.38	0.00	7.38	14.95	0.60	0.00	0.60
12.40	6.21	0.00	6.21	15.00	0.59	0.00	0.59
12.45	5.36	0.00	5.36	15.05	0.57	0.00	0.57
12.50	4.76	0.00	4.76	15.10	0.56	0.00	0.56
12.55	4.17	0.00	4.17	15.15	0.55	0.00	0.55
12.60	3.55	0.00	3.55	15.20	0.54	0.00	0.54
12.65	3.11	0.00	3.11	15.25	0.53	0.00	0.53
12.70	2.80	0.00	2.80	15.30	0.53	0.00	0.53
12.75	2.57	0.00	2.57	15.35	0.52	0.00	0.52
12.80	2.38	0.00	2.38	15.40	0.52	0.00	0.52
12.85	2.24	0.00	2.24	15.45	0.51	0.00	0.51
12.90	2.11	0.00	2.11	15.50	0.51	0.00	0.51
12.95	2.00	0.00	2.00	15.55	0.50	0.00	0.50

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.50	0.00	0.50	18.20	0.31	0.00	0.31
15.65	0.50	0.00	0.50	18.25	0.31	0.00	0.31
15.70	0.49	0.00	0.49	18.30	0.31	0.00	0.31
15.75	0.49	0.00	0.49	18.35	0.30	0.00	0.30
15.80	0.49	0.00	0.49	18.40	0.30	0.00	0.30
15.85	0.48	0.00	0.48	18.45	0.30	0.00	0.30
15.90	0.48	0.00	0.48	18.50	0.30	0.00	0.30
15.95	0.47	0.00	0.47	18.55	0.30	0.00	0.30
16.00	0.47	0.00	0.47	18.60	0.30	0.00	0.30
16.05	0.47	0.00	0.47	18.65	0.30	0.00	0.30
16.10	0.46	0.00	0.46	18.70	0.30	0.00	0.30
16.15	0.46	0.00	0.46	18.75	0.30	0.00	0.30
16.20	0.46	0.00	0.46	18.80	0.30	0.00	0.30
16.25	0.45	0.00	0.45	18.85	0.29	0.00	0.29
16.30	0.45	0.00	0.45	18.90	0.29	0.00	0.29
16.35	0.44	0.00	0.44	18.95	0.29	0.00	0.29
16.40	0.44	0.00	0.44	19.00	0.29	0.00	0.29
16.45	0.44	0.00	0.44	19.05	0.29	0.00	0.29
16.50	0.43	0.00	0.43	19.10	0.29	0.00	0.29
16.55	0.43	0.00	0.43	19.15	0.29	0.00	0.29
16.60	0.43	0.00	0.43	19.20	0.29	0.00	0.29
16.65	0.42	0.00	0.42	19.25	0.29	0.00	0.29
16.70	0.42	0.00	0.42	19.30	0.29	0.00	0.29
16.75	0.42	0.00	0.42	19.35	0.28	0.00	0.28
16.80	0.41	0.00	0.41	19.40	0.28	0.00	0.28
16.85	0.41	0.00	0.41	19.45	0.28	0.00	0.28
16.90	0.40	0.00	0.40	19.50	0.28	0.00	0.28
16.95	0.40	0.00	0.40	19.55	0.28	0.00	0.28
17.00	0.40	0.00	0.40	19.60	0.28	0.00	0.28
17.05	0.39	0.00	0.39	19.65	0.28	0.00	0.28
17.10	0.39	0.00	0.39	19.70	0.28	0.00	0.28
17.15	0.39	0.00	0.39	19.75	0.28	0.00	0.28
17.20	0.38	0.00	0.38	19.80	0.28	0.00	0.28
17.25	0.38	0.00	0.38	19.85	0.28	0.00	0.28
17.30	0.37	0.00	0.37	19.90	0.28	0.00	0.28
17.35	0.37	0.00	0.37	19.95	0.27	0.00	0.27
17.40	0.37	0.00	0.37	20.00	0.27	0.00	0.27
17.45	0.36	0.00	0.36	20.05	0.27	0.00	0.27
17.50	0.36	0.00	0.36	20.10	0.27	0.00	0.27
17.55	0.36	0.00	0.36	20.15	0.27	0.00	0.27
17.60	0.35	0.00	0.35	20.20	0.27	0.00	0.27
17.65	0.35	0.00	0.35	20.25	0.27	0.00	0.27
17.70	0.34	0.00	0.34	20.30	0.27	0.00	0.27
17.75	0.34	0.00	0.34	20.35	0.27	0.00	0.27
17.80	0.34	0.00	0.34	20.40	0.27	0.00	0.27
17.85	0.33	0.00	0.33	20.45	0.26	0.00	0.26
17.90	0.33	0.00	0.33	20.50	0.26	0.00	0.26
17.95	0.32	0.00	0.32	20.55	0.26	0.00	0.26
18.00	0.32	0.00	0.32	20.60	0.26	0.00	0.26
18.05	0.32	0.00	0.32	20.65	0.26	0.00	0.26
18.10	0.31	0.00	0.31	20.70	0.26	0.00	0.26
18.15	0.31	0.00	0.31	20.75	0.26	0.00	0.26

Hydrograph for Link E1B: E1B (continued)

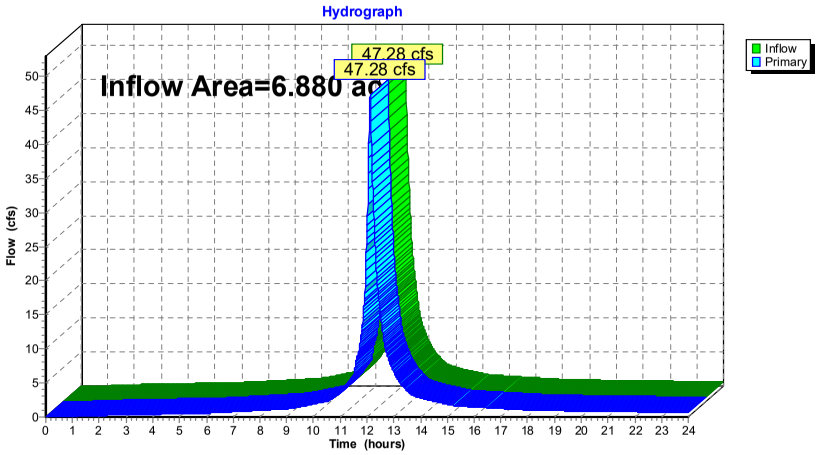
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.26	0.00	0.26	23.40	0.21	0.00	0.21
20.85	0.26	0.00	0.26	23.45	0.21	0.00	0.21
20.90	0.26	0.00	0.26	23.50	0.21	0.00	0.21
20.95	0.25	0.00	0.25	23.55	0.21	0.00	0.21
21.00	0.25	0.00	0.25	23.60	0.20	0.00	0.20
21.05	0.25	0.00	0.25	23.65	0.20	0.00	0.20
21.10	0.25	0.00	0.25	23.70	0.20	0.00	0.20
21.15	0.25	0.00	0.25	23.75	0.20	0.00	0.20
21.20	0.25	0.00	0.25	23.80	0.20	0.00	0.20
21.25	0.25	0.00	0.25	23.85	0.20	0.00	0.20
21.30	0.25	0.00	0.25	23.90	0.20	0.00	0.20
21.35	0.25	0.00	0.25	23.95	0.21	0.00	0.21
21.40	0.25	0.00	0.25	24.00	0.22	0.00	0.22
21.45	0.25	0.00	0.25				
21.50	0.24	0.00	0.24				
21.55	0.24	0.00	0.24				
21.60	0.24	0.00	0.24				
21.65	0.24	0.00	0.24				
21.70	0.24	0.00	0.24				
21.75	0.24	0.00	0.24				
21.80	0.24	0.00	0.24				
21.85	0.24	0.00	0.24				
21.90	0.24	0.00	0.24				
21.95	0.24	0.00	0.24				
22.00	0.24	0.00	0.24				
22.05	0.23	0.00	0.23				
22.10	0.23	0.00	0.23				
22.15	0.23	0.00	0.23				
22.20	0.23	0.00	0.23				
22.25	0.23	0.00	0.23				
22.30	0.23	0.00	0.23				
22.35	0.23	0.00	0.23				
22.40	0.23	0.00	0.23				
22.45	0.23	0.00	0.23				
22.50	0.23	0.00	0.23				
22.55	0.22	0.00	0.22				
22.60	0.22	0.00	0.22				
22.65	0.22	0.00	0.22				
22.70	0.22	0.00	0.22				
22.75	0.22	0.00	0.22				
22.80	0.22	0.00	0.22				
22.85	0.22	0.00	0.22				
22.90	0.22	0.00	0.22				
22.95	0.22	0.00	0.22				
23.00	0.22	0.00	0.22				
23.05	0.22	0.00	0.22				
23.10	0.21	0.00	0.21				
23.15	0.21	0.00	0.21				
23.20	0.21	0.00	0.21				
23.25	0.21	0.00	0.21				
23.30	0.21	0.00	0.21				
23.35	0.21	0.00	0.21				

Summary for Link EPOI-1: EPOI-1

Inflow Area = 6.880 ac, 33.14% Impervious, Inflow Depth > 7.49" for 100YR CURRENT event
Inflow = 47.28 cfs @ 12.12 hrs, Volume= 4.297 af
Primary = 47.28 cfs @ 12.12 hrs, Volume= 4.297 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link EPOI-1: EPOI-1



Hydrograph for Link EPOI-1: EPOI-1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.27	0.00	0.27
0.05	0.00	0.00	0.00	2.65	0.28	0.00	0.28
0.10	0.00	0.00	0.00	2.70	0.28	0.00	0.28
0.15	0.00	0.00	0.00	2.75	0.29	0.00	0.29
0.20	0.00	0.00	0.00	2.80	0.29	0.00	0.29
0.25	0.00	0.00	0.00	2.85	0.30	0.00	0.30
0.30	0.00	0.00	0.00	2.90	0.30	0.00	0.30
0.35	0.00	0.00	0.00	2.95	0.31	0.00	0.31
0.40	0.00	0.00	0.00	3.00	0.31	0.00	0.31
0.45	0.00	0.00	0.00	3.05	0.32	0.00	0.32
0.50	0.00	0.00	0.00	3.10	0.32	0.00	0.32
0.55	0.00	0.00	0.00	3.15	0.32	0.00	0.32
0.60	0.01	0.00	0.01	3.20	0.33	0.00	0.33
0.65	0.01	0.00	0.01	3.25	0.33	0.00	0.33
0.70	0.02	0.00	0.02	3.30	0.34	0.00	0.34
0.75	0.02	0.00	0.02	3.35	0.34	0.00	0.34
0.80	0.03	0.00	0.03	3.40	0.34	0.00	0.34
0.85	0.04	0.00	0.04	3.45	0.35	0.00	0.35
0.90	0.04	0.00	0.04	3.50	0.35	0.00	0.35
0.95	0.05	0.00	0.05	3.55	0.36	0.00	0.36
1.00	0.06	0.00	0.06	3.60	0.36	0.00	0.36
1.05	0.07	0.00	0.07	3.65	0.36	0.00	0.36
1.10	0.08	0.00	0.08	3.70	0.37	0.00	0.37
1.15	0.09	0.00	0.09	3.75	0.37	0.00	0.37
1.20	0.09	0.00	0.09	3.80	0.37	0.00	0.37
1.25	0.10	0.00	0.10	3.85	0.38	0.00	0.38
1.30	0.11	0.00	0.11	3.90	0.38	0.00	0.38
1.35	0.12	0.00	0.12	3.95	0.38	0.00	0.38
1.40	0.13	0.00	0.13	4.00	0.39	0.00	0.39
1.45	0.14	0.00	0.14	4.05	0.39	0.00	0.39
1.50	0.14	0.00	0.14	4.10	0.39	0.00	0.39
1.55	0.15	0.00	0.15	4.15	0.40	0.00	0.40
1.60	0.16	0.00	0.16	4.20	0.40	0.00	0.40
1.65	0.16	0.00	0.16	4.25	0.40	0.00	0.40
1.70	0.17	0.00	0.17	4.30	0.41	0.00	0.41
1.75	0.18	0.00	0.18	4.35	0.41	0.00	0.41
1.80	0.19	0.00	0.19	4.40	0.41	0.00	0.41
1.85	0.19	0.00	0.19	4.45	0.42	0.00	0.42
1.90	0.20	0.00	0.20	4.50	0.42	0.00	0.42
1.95	0.20	0.00	0.20	4.55	0.42	0.00	0.42
2.00	0.21	0.00	0.21	4.60	0.43	0.00	0.43
2.05	0.22	0.00	0.22	4.65	0.43	0.00	0.43
2.10	0.22	0.00	0.22	4.70	0.43	0.00	0.43
2.15	0.23	0.00	0.23	4.75	0.44	0.00	0.44
2.20	0.23	0.00	0.23	4.80	0.44	0.00	0.44
2.25	0.24	0.00	0.24	4.85	0.45	0.00	0.45
2.30	0.25	0.00	0.25	4.90	0.45	0.00	0.45
2.35	0.25	0.00	0.25	4.95	0.45	0.00	0.45
2.40	0.26	0.00	0.26	5.00	0.46	0.00	0.46
2.45	0.26	0.00	0.26	5.05	0.46	0.00	0.46
2.50	0.27	0.00	0.27	5.10	0.47	0.00	0.47
2.55	0.27	0.00	0.27	5.15	0.47	0.00	0.47

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.48	0.00	0.48	7.80	0.91	0.00	0.91
5.25	0.48	0.00	0.48	7.85	0.92	0.00	0.92
5.30	0.49	0.00	0.49	7.90	0.94	0.00	0.94
5.35	0.49	0.00	0.49	7.95	0.95	0.00	0.95
5.40	0.49	0.00	0.49	8.00	0.96	0.00	0.96
5.45	0.50	0.00	0.50	8.05	0.97	0.00	0.97
5.50	0.50	0.00	0.50	8.10	0.98	0.00	0.98
5.55	0.51	0.00	0.51	8.15	0.99	0.00	0.99
5.60	0.51	0.00	0.51	8.20	1.01	0.00	1.01
5.65	0.52	0.00	0.52	8.25	1.02	0.00	1.02
5.70	0.52	0.00	0.52	8.30	1.03	0.00	1.03
5.75	0.53	0.00	0.53	8.35	1.04	0.00	1.04
5.80	0.53	0.00	0.53	8.40	1.05	0.00	1.05
5.85	0.53	0.00	0.53	8.45	1.06	0.00	1.06
5.90	0.54	0.00	0.54	8.50	1.08	0.00	1.08
5.95	0.54	0.00	0.54	8.55	1.09	0.00	1.09
6.00	0.55	0.00	0.55	8.60	1.10	0.00	1.10
6.05	0.55	0.00	0.55	8.65	1.11	0.00	1.11
6.10	0.56	0.00	0.56	8.70	1.12	0.00	1.12
6.15	0.57	0.00	0.57	8.75	1.14	0.00	1.14
6.20	0.58	0.00	0.58	8.80	1.15	0.00	1.15
6.25	0.59	0.00	0.59	8.85	1.16	0.00	1.16
6.30	0.60	0.00	0.60	8.90	1.17	0.00	1.17
6.35	0.61	0.00	0.61	8.95	1.18	0.00	1.18
6.40	0.62	0.00	0.62	9.00	1.20	0.00	1.20
6.45	0.63	0.00	0.63	9.05	1.22	0.00	1.22
6.50	0.64	0.00	0.64	9.10	1.24	0.00	1.24
6.55	0.65	0.00	0.65	9.15	1.27	0.00	1.27
6.60	0.66	0.00	0.66	9.20	1.31	0.00	1.31
6.65	0.67	0.00	0.67	9.25	1.34	0.00	1.34
6.70	0.68	0.00	0.68	9.30	1.38	0.00	1.38
6.75	0.69	0.00	0.69	9.35	1.41	0.00	1.41
6.80	0.70	0.00	0.70	9.40	1.45	0.00	1.45
6.85	0.71	0.00	0.71	9.45	1.48	0.00	1.48
6.90	0.72	0.00	0.72	9.50	1.52	0.00	1.52
6.95	0.73	0.00	0.73	9.55	1.56	0.00	1.56
7.00	0.74	0.00	0.74	9.60	1.60	0.00	1.60
7.05	0.75	0.00	0.75	9.65	1.63	0.00	1.63
7.10	0.76	0.00	0.76	9.70	1.67	0.00	1.67
7.15	0.77	0.00	0.77	9.75	1.71	0.00	1.71
7.20	0.78	0.00	0.78	9.80	1.75	0.00	1.75
7.25	0.79	0.00	0.79	9.85	1.79	0.00	1.79
7.30	0.80	0.00	0.80	9.90	1.83	0.00	1.83
7.35	0.81	0.00	0.81	9.95	1.87	0.00	1.87
7.40	0.83	0.00	0.83	10.00	1.91	0.00	1.91
7.45	0.84	0.00	0.84	10.05	1.95	0.00	1.95
7.50	0.85	0.00	0.85	10.10	1.99	0.00	1.99
7.55	0.86	0.00	0.86	10.15	2.03	0.00	2.03
7.60	0.87	0.00	0.87	10.20	2.07	0.00	2.07
7.65	0.88	0.00	0.88	10.25	2.11	0.00	2.11
7.70	0.89	0.00	0.89	10.30	2.15	0.00	2.15
7.75	0.90	0.00	0.90	10.35	2.19	0.00	2.19

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	2.23	0.00	2.23	13.00	6.64	0.00	6.64
10.45	2.27	0.00	2.27	13.05	6.23	0.00	6.23
10.50	2.32	0.00	2.32	13.10	5.84	0.00	5.84
10.55	2.40	0.00	2.40	13.15	5.50	0.00	5.50
10.60	2.50	0.00	2.50	13.20	5.21	0.00	5.21
10.65	2.62	0.00	2.62	13.25	4.94	0.00	4.94
10.70	2.75	0.00	2.75	13.30	4.70	0.00	4.70
10.75	2.88	0.00	2.88	13.35	4.47	0.00	4.47
10.80	3.02	0.00	3.02	13.40	4.26	0.00	4.26
10.85	3.16	0.00	3.16	13.45	4.06	0.00	4.06
10.90	3.30	0.00	3.30	13.50	3.86	0.00	3.86
10.95	3.45	0.00	3.45	13.55	3.67	0.00	3.67
11.00	3.60	0.00	3.60	13.60	3.48	0.00	3.48
11.05	3.80	0.00	3.80	13.65	3.34	0.00	3.34
11.10	4.02	0.00	4.02	13.70	3.23	0.00	3.23
11.15	4.27	0.00	4.27	13.75	3.13	0.00	3.13
11.20	4.52	0.00	4.52	13.80	3.05	0.00	3.05
11.25	4.80	0.00	4.80	13.85	2.97	0.00	2.97
11.30	5.06	0.00	5.06	13.90	2.91	0.00	2.91
11.35	5.35	0.00	5.35	13.95	2.85	0.00	2.85
11.40	5.63	0.00	5.63	14.00	2.79	0.00	2.79
11.45	5.90	0.00	5.90	14.05	2.74	0.00	2.74
11.50	6.15	0.00	6.15	14.10	2.68	0.00	2.68
11.55	7.05	0.00	7.05	14.15	2.63	0.00	2.63
11.60	8.22	0.00	8.22	14.20	2.59	0.00	2.59
11.65	9.07	0.00	9.07	14.25	2.54	0.00	2.54
11.70	9.71	0.00	9.71	14.30	2.49	0.00	2.49
11.75	10.97	0.00	10.97	14.35	2.44	0.00	2.44
11.80	12.46	0.00	12.46	14.40	2.39	0.00	2.39
11.85	14.61	0.00	14.61	14.45	2.35	0.00	2.35
11.90	16.97	0.00	16.97	14.50	2.31	0.00	2.31
11.95	21.61	0.00	21.61	14.55	2.26	0.00	2.26
12.00	27.17	0.00	27.17	14.60	2.21	0.00	2.21
12.05	35.75	0.00	35.75	14.65	2.17	0.00	2.17
12.10	**45.49**	0.00	**45.49**	14.70	2.12	0.00	2.12
12.15	**43.43**	0.00	**43.43**	14.75	2.08	0.00	2.08
12.20	35.59	0.00	35.59	14.80	2.04	0.00	2.04
12.25	29.88	0.00	29.88	14.85	1.99	0.00	1.99
12.30	25.40	0.00	25.40	14.90	1.95	0.00	1.95
12.35	21.77	0.00	21.77	14.95	1.90	0.00	1.90
12.40	18.81	0.00	18.81	15.00	1.86	0.00	1.86
12.45	16.81	0.00	16.81	15.05	1.81	0.00	1.81
12.50	15.42	0.00	15.42	15.10	1.77	0.00	1.77
12.55	13.72	0.00	13.72	15.15	1.74	0.00	1.74
12.60	11.97	0.00	11.97	15.20	1.71	0.00	1.71
12.65	10.76	0.00	10.76	15.25	1.69	0.00	1.69
12.70	9.87	0.00	9.87	15.30	1.67	0.00	1.67
12.75	9.14	0.00	9.14	15.35	1.65	0.00	1.65
12.80	8.53	0.00	8.53	15.40	1.64	0.00	1.64
12.85	8.00	0.00	8.00	15.45	1.62	0.00	1.62
12.90	7.52	0.00	7.52	15.50	1.61	0.00	1.61
12.95	7.06	0.00	7.06	15.55	1.59	0.00	1.59

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	1.58	0.00	1.58	18.20	0.97	0.00	0.97
15.65	1.57	0.00	1.57	18.25	0.97	0.00	0.97
15.70	1.55	0.00	1.55	18.30	0.96	0.00	0.96
15.75	1.54	0.00	1.54	18.35	0.96	0.00	0.96
15.80	1.53	0.00	1.53	18.40	0.95	0.00	0.95
15.85	1.52	0.00	1.52	18.45	0.95	0.00	0.95
15.90	1.51	0.00	1.51	18.50	0.95	0.00	0.95
15.95	1.49	0.00	1.49	18.55	0.94	0.00	0.94
16.00	1.48	0.00	1.48	18.60	0.94	0.00	0.94
16.05	1.47	0.00	1.47	18.65	0.93	0.00	0.93
16.10	1.46	0.00	1.46	18.70	0.93	0.00	0.93
16.15	1.45	0.00	1.45	18.75	0.93	0.00	0.93
16.20	1.44	0.00	1.44	18.80	0.93	0.00	0.93
16.25	1.42	0.00	1.42	18.85	0.92	0.00	0.92
16.30	1.41	0.00	1.41	18.90	0.92	0.00	0.92
16.35	1.40	0.00	1.40	18.95	0.92	0.00	0.92
16.40	1.39	0.00	1.39	19.00	0.91	0.00	0.91
16.45	1.37	0.00	1.37	19.05	0.91	0.00	0.91
16.50	1.36	0.00	1.36	19.10	0.91	0.00	0.91
16.55	1.35	0.00	1.35	19.15	0.90	0.00	0.90
16.60	1.34	0.00	1.34	19.20	0.90	0.00	0.90
16.65	1.33	0.00	1.33	19.25	0.90	0.00	0.90
16.70	1.32	0.00	1.32	19.30	0.90	0.00	0.90
16.75	1.30	0.00	1.30	19.35	0.89	0.00	0.89
16.80	1.29	0.00	1.29	19.40	0.89	0.00	0.89
16.85	1.28	0.00	1.28	19.45	0.89	0.00	0.89
16.90	1.27	0.00	1.27	19.50	0.88	0.00	0.88
16.95	1.26	0.00	1.26	19.55	0.88	0.00	0.88
17.00	1.25	0.00	1.25	19.60	0.88	0.00	0.88
17.05	1.23	0.00	1.23	19.65	0.87	0.00	0.87
17.10	1.22	0.00	1.22	19.70	0.87	0.00	0.87
17.15	1.21	0.00	1.21	19.75	0.87	0.00	0.87
17.20	1.20	0.00	1.20	19.80	0.87	0.00	0.87
17.25	1.19	0.00	1.19	19.85	0.87	0.00	0.87
17.30	1.17	0.00	1.17	19.90	0.86	0.00	0.86
17.35	1.16	0.00	1.16	19.95	0.86	0.00	0.86
17.40	1.15	0.00	1.15	20.00	0.85	0.00	0.85
17.45	1.14	0.00	1.14	20.05	0.85	0.00	0.85
17.50	1.13	0.00	1.13	20.10	0.85	0.00	0.85
17.55	1.12	0.00	1.12	20.15	0.85	0.00	0.85
17.60	1.11	0.00	1.11	20.20	0.84	0.00	0.84
17.65	1.09	0.00	1.09	20.25	0.84	0.00	0.84
17.70	1.08	0.00	1.08	20.30	0.84	0.00	0.84
17.75	1.07	0.00	1.07	20.35	0.83	0.00	0.83
17.80	1.06	0.00	1.06	20.40	0.83	0.00	0.83
17.85	1.05	0.00	1.05	20.45	0.83	0.00	0.83
17.90	1.03	0.00	1.03	20.50	0.82	0.00	0.82
17.95	1.02	0.00	1.02	20.55	0.82	0.00	0.82
18.00	1.01	0.00	1.01	20.60	0.82	0.00	0.82
18.05	1.00	0.00	1.00	20.65	0.82	0.00	0.82
18.10	0.99	0.00	0.99	20.70	0.81	0.00	0.81
18.15	0.98	0.00	0.98	20.75	0.81	0.00	0.81

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.81	0.00	0.81	23.40	0.66	0.00	0.66
20.85	0.80	0.00	0.80	23.45	0.65	0.00	0.65
20.90	0.80	0.00	0.80	23.50	0.65	0.00	0.65
20.95	0.80	0.00	0.80	23.55	0.65	0.00	0.65
21.00	0.80	0.00	0.80	23.60	0.64	0.00	0.64
21.05	0.79	0.00	0.79	23.65	0.64	0.00	0.64
21.10	0.79	0.00	0.79	23.70	0.64	0.00	0.64
21.15	0.79	0.00	0.79	23.75	0.63	0.00	0.63
21.20	0.78	0.00	0.78	23.80	0.63	0.00	0.63
21.25	0.78	0.00	0.78	23.85	0.63	0.00	0.63
21.30	0.78	0.00	0.78	23.90	0.62	0.00	0.62
21.35	0.78	0.00	0.78	23.95	0.65	0.00	0.65
21.40	0.77	0.00	0.77	24.00	0.69	0.00	0.69
21.45	0.77	0.00	0.77				
21.50	0.77	0.00	0.77				
21.55	0.76	0.00	0.76				
21.60	0.76	0.00	0.76				
21.65	0.76	0.00	0.76				
21.70	0.75	0.00	0.75				
21.75	0.75	0.00	0.75				
21.80	0.75	0.00	0.75				
21.85	0.75	0.00	0.75				
21.90	0.74	0.00	0.74				
21.95	0.74	0.00	0.74				
22.00	0.74	0.00	0.74				
22.05	0.73	0.00	0.73				
22.10	0.73	0.00	0.73				
22.15	0.73	0.00	0.73				
22.20	0.73	0.00	0.73				
22.25	0.72	0.00	0.72				
22.30	0.72	0.00	0.72				
22.35	0.72	0.00	0.72				
22.40	0.71	0.00	0.71				
22.45	0.71	0.00	0.71				
22.50	0.71	0.00	0.71				
22.55	0.70	0.00	0.70				
22.60	0.70	0.00	0.70				
22.65	0.70	0.00	0.70				
22.70	0.70	0.00	0.70				
22.75	0.69	0.00	0.69				
22.80	0.69	0.00	0.69				
22.85	0.69	0.00	0.69				
22.90	0.68	0.00	0.68				
22.95	0.68	0.00	0.68				
23.00	0.68	0.00	0.68				
23.05	0.68	0.00	0.68				
23.10	0.67	0.00	0.67				
23.15	0.67	0.00	0.67				
23.20	0.67	0.00	0.67				
23.25	0.66	0.00	0.66				
23.30	0.66	0.00	0.66				
23.35	0.66	0.00	0.66				

Events for Subcatchment EDA 1B PERV: EDA-1B PERV

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR CURRENT	3.41	0.03	0.008	0.25
10YR CURRENT	5.23	0.32	0.031	0.97
25YR CURRENT	6.45	0.60	0.051	1.61
100YR CURRENT	**8.95**	**1.29**	**0.101**	**3.20**

Events for Subcatchment EDA1A IMP: EDA1A IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR CURRENT	3.41	3.84	0.281	3.06
10YR CURRENT	5.23	5.96	0.447	4.87
25YR CURRENT	6.45	7.38	0.558	6.09
100YR CURRENT	**8.95**	**10.27**	**0.787**	**8.58**

Events for Subcatchment EDA1A PERV: EDA-1A PERV

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR CURRENT	3.41	0.57	0.036	1.56
10YR CURRENT	5.23	1.11	0.072	3.09
25YR CURRENT	6.45	1.48	0.098	4.18
100YR CURRENT	**8.95**	**2.26**	**0.152**	**6.51**

Events for Subcatchment EDA1B IMP: EDA1B IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR CURRENT	3.41	4.35	0.381	2.95
10YR CURRENT	5.23	6.82	0.614	4.75
25YR CURRENT	6.45	8.47	0.770	5.96
100YR CURRENT	**8.95**	**11.83**	**1.092**	**8.45**

Events for Subcatchment EDA2 IMP: EDA2 IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR CURRENT	3.41	1.17	0.082	3.17
10YR CURRENT	5.23	1.80	0.129	4.99
25YR CURRENT	6.45	2.22	0.160	6.21
100YR CURRENT	**8.95**	**3.09**	**0.225**	**8.70**

Events for Subcatchment EDA3 IMP: EDA3 IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR CURRENT	3.41	2.54	0.211	3.17
10YR CURRENT	5.23	3.92	0.332	4.99
25YR CURRENT	6.45	4.84	0.413	6.20
100YR CURRENT	**8.95**	**6.73**	**0.580**	**8.70**

Events for Subcatchment EDA3 PERV: EDA3 PERV

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR CURRENT	3.41	1.66	0.111	1.56
10YR CURRENT	5.23	3.27	0.219	3.09
25YR CURRENT	6.45	4.38	0.296	4.18
100YR CURRENT	**8.95**	**6.67**	**0.461**	**6.51**

Events for Subcatchment EDA4 IMP: EDA4 IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR CURRENT	3.41	0.64	0.043	3.06
10YR CURRENT	5.23	1.00	0.069	4.87
25YR CURRENT	6.45	1.24	0.086	6.09
100YR CURRENT	**8.95**	**1.72**	**0.122**	**8.58**

Events for Subcatchment EDA4 PERV: EDA4 PERV

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR CURRENT	3.41	1.46	0.186	1.55
10YR CURRENT	5.23	2.95	0.369	3.07
25YR CURRENT	6.45	3.99	0.500	4.16
100YR CURRENT	**8.95**	**6.15**	**0.778**	**6.48**

Events for Link E1A: E1A

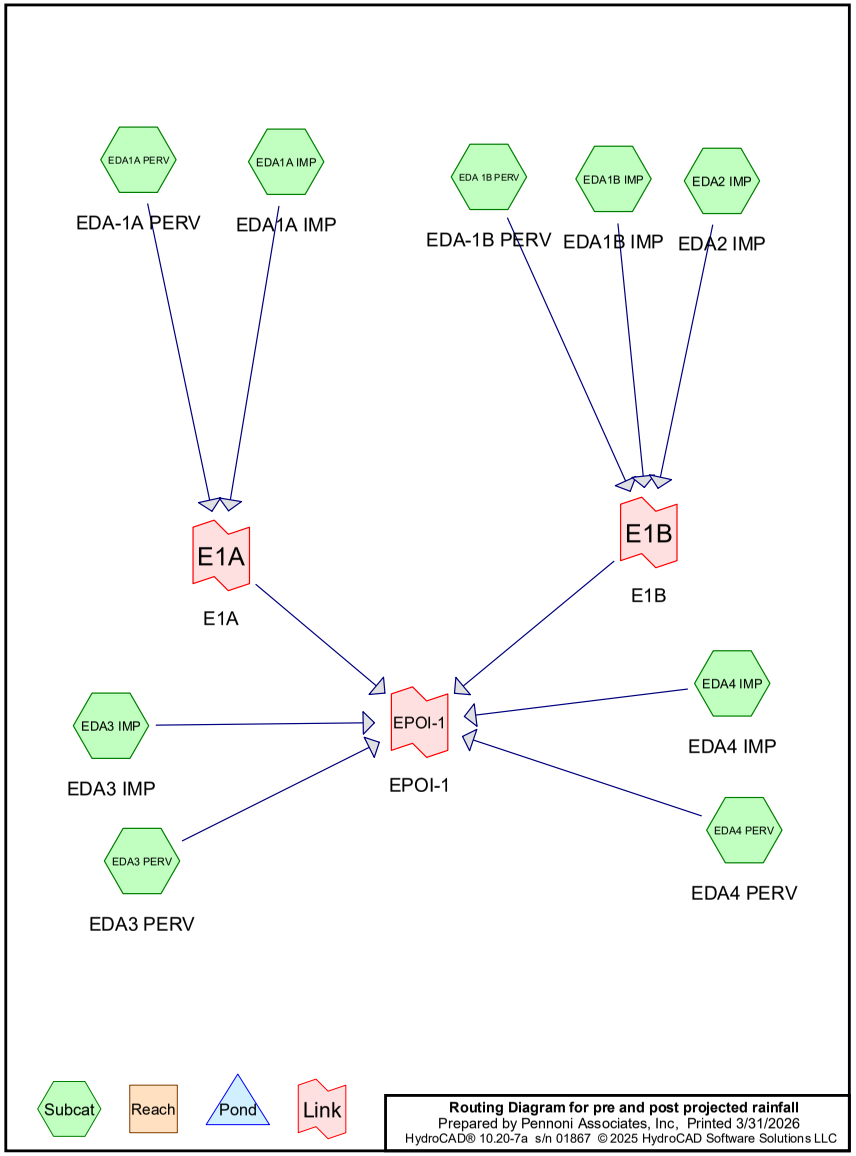
Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
2YR CURRENT	4.40	4.40	**0.00**
10YR CURRENT	7.07	7.07	0.00
25YR CURRENT	8.86	8.86	0.00
100YR CURRENT	**12.53**	**12.53**	0.00

Events for Link E1B: E1B

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
2YR CURRENT	5.33	5.33	**0.00**
10YR CURRENT	8.61	8.61	0.00
25YR CURRENT	10.89	10.89	0.00
100YR CURRENT	**15.65**	**15.65**	0.00

Events for Link EPOI-1: EPOI-1

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
2YR CURRENT	15.40	15.40	**0.00**
10YR CURRENT	25.67	25.67	0.00
25YR CURRENT	32.71	32.71	0.00
100YR CURRENT	**47.28**	**47.28**	0.00



Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC	P2 (inches)
1	2YR PROJECTED	NOAA 24-hr	C	Default	24.00	1	3.91	2	3.91
2	10YR PROJECTED	NOAA 24-hr	C	Default	24.00	1	6.17	2	3.91
3	25YR PROJECTED	NOAA 24-hr	C	Default	24.00	1	8.03	2	3.91
4	100YR PROJECTED	NOAA 24-hr	C	Default	24.00	1	11.84	2	3.91

EXISTING PROJECTED

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.250	39	>75% Grass cover, Good, HSG A (EDA 1B PERV)
2.700	80	>75% Grass cover, Good, HSG D (EDA 1B PERV, EDA1A PERV, EDA3 PERV, EDA4 PERV)
0.940	96	Gravel surface, HSG A (EDA1B IMP)
0.710	96	Gravel surface, HSG D (EDA1A IMP, EDA1B IMP, EDA4 IMP)
0.340	98	Impervious non vehicular (EDA1A IMP, EDA1B IMP, EDA3 IMP)
1.940	98	Impervious vehicular (EDA1A IMP, EDA1B IMP, EDA2 IMP, EDA3 IMP, EDA4 IMP)
6.880	**88**	**TOTAL AREA**

Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
1.190	HSG A	EDA 1B PERV, EDA1B IMP
0.000	HSG B	
0.000	HSG C	
3.410	HSG D	EDA 1B PERV, EDA1A IMP, EDA1A PERV, EDA1B IMP, EDA3 PERV, EDA4 IMP, EDA4 PERV
2.280	Other	EDA1A IMP, EDA1B IMP, EDA2 IMP, EDA3 IMP, EDA4 IMP
6.880		**TOTAL AREA**

Ground Covers (selected nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.250	0.000	0.000	2.700	0.000	2.950	>75% Grass cover, Good	EDA 1B PERV, EDA1A PERV, EDA3 PERV, EDA4 PERV
0.940	0.000	0.000	0.710	0.000	1.650	Gravel surface	EDA1A IMP, EDA1B IMP, EDA4 IMP
0.000	0.000	0.000	0.000	0.340	0.340	Impervious non vehicular	EDA1A IMP, EDA1B IMP, EDA3 IMP
0.000	0.000	0.000	0.000	1.940	1.940	Impervious vehicular	EDA1A IMP, EDA1B IMP, EDA2 IMP, EDA3 IMP, EDA4 IMP
1.190	**0.000**	**0.000**	**3.410**	**2.280**	**6.880**	**TOTAL AREA**	

Pipe Listing (selected nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)	N
1	EDA 1B PERV	0.00	0.00	238.0	0.0024	0.015	0.0	18.0	0.0	
2	EDA 1B PERV	0.00	0.00	92.0	0.0031	0.015	0.0	18.0	0.0	
3	EDA 1B PERV	0.00	0.00	93.0	0.0110	0.015	0.0	18.0	0.0	
4	EDA 1B PERV	0.00	0.00	95.0	0.0075	0.015	0.0	18.0	0.0	
5	EDA 1B PERV	0.00	0.00	76.0	0.0046	0.015	0.0	18.0	0.0	
6	EDA1A IMP	0.00	0.00	211.0	0.0021	0.015	0.0	30.0	0.0	
7	EDA1A IMP	0.00	0.00	185.0	0.0057	0.015	0.0	30.0	0.0	
8	EDA1A PERV	0.00	0.00	211.0	0.0021	0.015	0.0	30.0	0.0	
9	EDA1A PERV	0.00	0.00	185.0	0.0057	0.015	0.0	30.0	0.0	
10	EDA1B IMP	0.00	0.00	238.0	0.0024	0.015	0.0	18.0	0.0	
11	EDA1B IMP	0.00	0.00	92.0	0.0031	0.015	0.0	18.0	0.0	
12	EDA1B IMP	0.00	0.00	93.0	0.0011	0.015	0.0	18.0	0.0	
13	EDA1B IMP	0.00	0.00	95.0	0.0075	0.015	0.0	18.0	0.0	
14	EDA1B IMP	0.00	0.00	76.0	0.0046	0.015	0.0	18.0	0.0	
15	EDA3 IMP	0.00	0.00	172.0	0.0039	0.015	0.0	24.0	0.0	
16	EDA3 IMP	0.00	0.00	27.0	0.0120	0.015	0.0	24.0	0.0	
17	EDA3 IMP	0.00	0.00	439.0	0.0015	0.015	0.0	60.0	0.0	
18	EDA3 PERV	0.00	0.00	42.0	0.0150	0.015	0.0	15.0	0.0	
19	EDA4 PERV	0.00	0.00	100.0	0.0039	0.015	0.0	18.0	0.0	
20	EDA4 PERV	0.00	0.00	100.0	0.0020	0.015	0.0	24.0	0.0	

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment EDA 1B PERV: EDA-1B PERV Runoff Area=0.380 ac 0.00% Impervious Runoff Depth>0.41"
Flow Length=761' Tc=5.4 min CN=53 Runoff=0.08 cfs 0.013 af

Subcatchment EDA1AIMP: EDA1A IMP Runoff Area=1.100 ac 68.18% Impervious Runoff Depth>3.56"
Flow Length=496' Tc=3.1 min CN=97 Runoff=4.46 cfs 0.326 af

Subcatchment EDA1APERV: EDA-1APERV Runoff Area=0.280 ac 0.00% Impervious Runoff Depth>1.96"
Flow Length=496' Tc=3.1 min CN=80 Runoff=0.72 cfs 0.046 af

Subcatchment EDA1B IMP: EDA1B IMP Runoff Area=1.550 ac 19.35% Impervious Runoff Depth>3.44"
Flow Length=787' Tc=6.2 min CN=96 Runoff=5.06 cfs 0.445 af

Subcatchment EDA2 IMP: EDA2 IMP Runoff Area=0.310 ac 100.00% Impervious Runoff Depth>3.67"
Flow Length=351' Tc=2.2 min CN=98 Runoff=1.35 cfs 0.095 af

Subcatchment EDA3 IMP: EDA3 IMP Runoff Area=0.800 ac 100.00% Impervious Runoff Depth>3.67"
Flow Length=804' Tc=4.7 min CN=98 Runoff=2.94 cfs 0.245 af

Subcatchment EDA3 PERV: EDA3 PERV Runoff Area=0.850 ac 0.00% Impervious Runoff Depth>1.96"
Flow Length=131' Tc=3.4 min CN=80 Runoff=2.13 cfs 0.139 af

Subcatchment EDA4 IMP: EDA4 IMP Runoff Area=0.170 ac 70.59% Impervious Runoff Depth>3.56"
Flow Length=188' Tc=1.8 min CN=97 Runoff=0.75 cfs 0.050 af

Subcatchment EDA4 PERV: EDA4 PERV Runoff Area=1.440 ac 0.00% Impervious Runoff Depth>1.95"
Flow Length=415' Tc=15.0 min CN=80 Runoff=1.92 cfs 0.234 af

Link E1A: E1A Inflow=5.17 cfs 0.372 af
Primary=5.17 cfs 0.372 af

Link E1B: E1B Inflow=6.24 cfs 0.553 af
Primary=6.24 cfs 0.553 af

Link EPOI-1: EPOI-1 Inflow=18.38 cfs 1.594 af
Primary=18.38 cfs 1.594 af

Total Runoff Area = 6.880 ac Runoff Volume = 1.594 af Average Runoff Depth = 2.78"
66.86% Pervious = 4.600 ac 33.14% Impervious = 2.280 ac

Summary for Subcatchment EDA 1B PERV: EDA-1B PERV

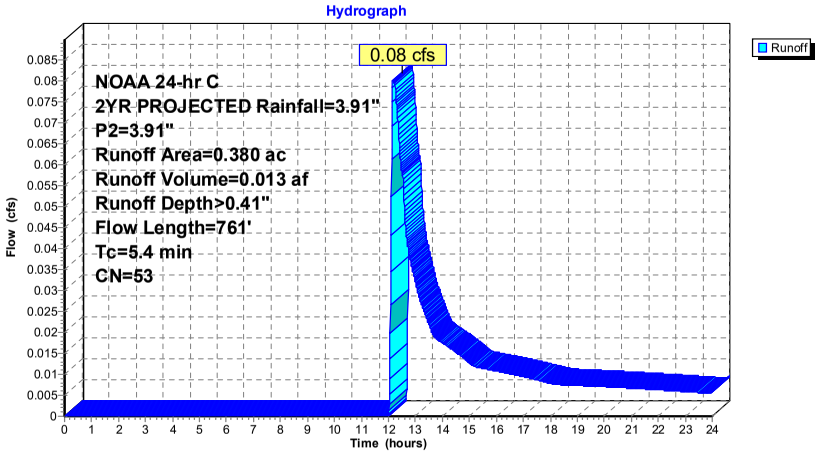
Runoff = 0.08 cfs @ 12.17 hrs, Volume= 0.013 af, Depth> 0.41"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR PROJECTED Rainfall=3.91", P2=3.91"

Area (ac)	CN	Description
0.250	39	>75% Grass cover, Good, HSG A
0.130	80	>75% Grass cover, Good, HSG D
0.380	53	Weighted Average
0.380		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	93	0.0100	1.14		**Sheet Flow, Grass** Smooth surfaces n= 0.011 P2= 3.91"
0.8	74	0.0100	1.50		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.3	93	0.0110	5.40	9.55	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
5.4	761	Total			

Subcatchment EDA 1B PERV: EDA-1B PERV



Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.12	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.12	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.12	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.13	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.13	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.13	0.00	0.00
0.30	0.01	0.00	0.00	2.90	0.13	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.14	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.14	0.00	0.00
0.45	0.02	0.00	0.00	3.05	0.14	0.00	0.00
0.50	0.02	0.00	0.00	3.10	0.14	0.00	0.00
0.55	0.02	0.00	0.00	3.15	0.15	0.00	0.00
0.60	0.03	0.00	0.00	3.20	0.15	0.00	0.00
0.65	0.03	0.00	0.00	3.25	0.15	0.00	0.00
0.70	0.03	0.00	0.00	3.30	0.15	0.00	0.00
0.75	0.03	0.00	0.00	3.35	0.16	0.00	0.00
0.80	0.03	0.00	0.00	3.40	0.16	0.00	0.00
0.85	0.04	0.00	0.00	3.45	0.16	0.00	0.00
0.90	0.04	0.00	0.00	3.50	0.16	0.00	0.00
0.95	0.04	0.00	0.00	3.55	0.17	0.00	0.00
1.00	0.04	0.00	0.00	3.60	0.17	0.00	0.00
1.05	0.04	0.00	0.00	3.65	0.17	0.00	0.00
1.10	0.05	0.00	0.00	3.70	0.17	0.00	0.00
1.15	0.05	0.00	0.00	3.75	0.18	0.00	0.00
1.20	0.05	0.00	0.00	3.80	0.18	0.00	0.00
1.25	0.05	0.00	0.00	3.85	0.18	0.00	0.00
1.30	0.06	0.00	0.00	3.90	0.19	0.00	0.00
1.35	0.06	0.00	0.00	3.95	0.19	0.00	0.00
1.40	0.06	0.00	0.00	4.00	0.19	0.00	0.00
1.45	0.06	0.00	0.00	4.05	0.19	0.00	0.00
1.50	0.07	0.00	0.00	4.10	0.20	0.00	0.00
1.55	0.07	0.00	0.00	4.15	0.20	0.00	0.00
1.60	0.07	0.00	0.00	4.20	0.20	0.00	0.00
1.65	0.07	0.00	0.00	4.25	0.21	0.00	0.00
1.70	0.07	0.00	0.00	4.30	0.21	0.00	0.00
1.75	0.08	0.00	0.00	4.35	0.21	0.00	0.00
1.80	0.08	0.00	0.00	4.40	0.21	0.00	0.00
1.85	0.08	0.00	0.00	4.45	0.22	0.00	0.00
1.90	0.08	0.00	0.00	4.50	0.22	0.00	0.00
1.95	0.09	0.00	0.00	4.55	0.22	0.00	0.00
2.00	0.09	0.00	0.00	4.60	0.23	0.00	0.00
2.05	0.09	0.00	0.00	4.65	0.23	0.00	0.00
2.10	0.09	0.00	0.00	4.70	0.23	0.00	0.00
2.15	0.10	0.00	0.00	4.75	0.23	0.00	0.00
2.20	0.10	0.00	0.00	4.80	0.24	0.00	0.00
2.25	0.10	0.00	0.00	4.85	0.24	0.00	0.00
2.30	0.10	0.00	0.00	4.90	0.24	0.00	0.00
2.35	0.11	0.00	0.00	4.95	0.25	0.00	0.00
2.40	0.11	0.00	0.00	5.00	0.25	0.00	0.00
2.45	0.11	0.00	0.00	5.05	0.25	0.00	0.00
2.50	0.11	0.00	0.00	5.10	0.25	0.00	0.00
2.55	0.12	0.00	0.00	5.15	0.26	0.00	0.00

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.26	0.00	0.00	7.80	0.45	0.00	0.00
5.25	0.26	0.00	0.00	7.85	0.45	0.00	0.00
5.30	0.27	0.00	0.00	7.90	0.46	0.00	0.00
5.35	0.27	0.00	0.00	7.95	0.46	0.00	0.00
5.40	0.27	0.00	0.00	8.00	0.47	0.00	0.00
5.45	0.28	0.00	0.00	8.05	0.47	0.00	0.00
5.50	0.28	0.00	0.00	8.10	0.48	0.00	0.00
5.55	0.28	0.00	0.00	8.15	0.48	0.00	0.00
5.60	0.28	0.00	0.00	8.20	0.49	0.00	0.00
5.65	0.29	0.00	0.00	8.25	0.49	0.00	0.00
5.70	0.29	0.00	0.00	8.30	0.50	0.00	0.00
5.75	0.29	0.00	0.00	8.35	0.50	0.00	0.00
5.80	0.30	0.00	0.00	8.40	0.51	0.00	0.00
5.85	0.30	0.00	0.00	8.45	0.51	0.00	0.00
5.90	0.30	0.00	0.00	8.50	0.52	0.00	0.00
5.95	0.31	0.00	0.00	8.55	0.52	0.00	0.00
6.00	0.31	0.00	0.00	8.60	0.53	0.00	0.00
6.05	0.31	0.00	0.00	8.65	0.53	0.00	0.00
6.10	0.32	0.00	0.00	8.70	0.54	0.00	0.00
6.15	0.32	0.00	0.00	8.75	0.54	0.00	0.00
6.20	0.32	0.00	0.00	8.80	0.55	0.00	0.00
6.25	0.33	0.00	0.00	8.85	0.55	0.00	0.00
6.30	0.33	0.00	0.00	8.90	0.56	0.00	0.00
6.35	0.33	0.00	0.00	8.95	0.57	0.00	0.00
6.40	0.34	0.00	0.00	9.00	0.57	0.00	0.00
6.45	0.34	0.00	0.00	9.05	0.58	0.00	0.00
6.50	0.34	0.00	0.00	9.10	0.58	0.00	0.00
6.55	0.35	0.00	0.00	9.15	0.59	0.00	0.00
6.60	0.35	0.00	0.00	9.20	0.59	0.00	0.00
6.65	0.35	0.00	0.00	9.25	0.60	0.00	0.00
6.70	0.36	0.00	0.00	9.30	0.61	0.00	0.00
6.75	0.36	0.00	0.00	9.35	0.61	0.00	0.00
6.80	0.37	0.00	0.00	9.40	0.62	0.00	0.00
6.85	0.37	0.00	0.00	9.45	0.63	0.00	0.00
6.90	0.37	0.00	0.00	9.50	0.63	0.00	0.00
6.95	0.38	0.00	0.00	9.55	0.64	0.00	0.00
7.00	0.38	0.00	0.00	9.60	0.65	0.00	0.00
7.05	0.39	0.00	0.00	9.65	0.66	0.00	0.00
7.10	0.39	0.00	0.00	9.70	0.66	0.00	0.00
7.15	0.39	0.00	0.00	9.75	0.67	0.00	0.00
7.20	0.40	0.00	0.00	9.80	0.68	0.00	0.00
7.25	0.40	0.00	0.00	9.85	0.69	0.00	0.00
7.30	0.41	0.00	0.00	9.90	0.70	0.00	0.00
7.35	0.41	0.00	0.00	9.95	0.70	0.00	0.00
7.40	0.41	0.00	0.00	10.00	0.71	0.00	0.00
7.45	0.42	0.00	0.00	10.05	0.72	0.00	0.00
7.50	0.42	0.00	0.00	10.10	0.73	0.00	0.00
7.55	0.43	0.00	0.00	10.15	0.74	0.00	0.00
7.60	0.43	0.00	0.00	10.20	0.75	0.00	0.00
7.65	0.44	0.00	0.00	10.25	0.76	0.00	0.00
7.70	0.44	0.00	0.00	10.30	0.77	0.00	0.00
7.75	0.45	0.00	0.00	10.35	0.78	0.00	0.00

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.79	0.00	0.00	13.00	2.97	0.14	0.03
10.45	0.80	0.00	0.00	13.05	2.99	0.15	0.03
10.50	0.81	0.00	0.00	13.10	3.00	0.15	0.03
10.55	0.82	0.00	0.00	13.15	3.02	0.15	0.03
10.60	0.83	0.00	0.00	13.20	3.03	0.16	0.03
10.65	0.84	0.00	0.00	13.25	3.04	0.16	0.03
10.70	0.85	0.00	0.00	13.30	3.06	0.16	0.03
10.75	0.87	0.00	0.00	13.35	3.07	0.17	0.02
10.80	0.88	0.00	0.00	13.40	3.08	0.17	0.02
10.85	0.89	0.00	0.00	13.45	3.09	0.17	0.02
10.90	0.91	0.00	0.00	13.50	3.10	0.17	0.02
10.95	0.92	0.00	0.00	13.55	3.11	0.18	0.02
11.00	0.94	0.00	0.00	13.60	3.12	0.18	0.02
11.05	0.96	0.00	0.00	13.65	3.13	0.18	0.02
11.10	0.97	0.00	0.00	13.70	3.14	0.18	0.02
11.15	0.99	0.00	0.00	13.75	3.15	0.19	0.02
11.20	1.01	0.00	0.00	13.80	3.16	0.19	0.02
11.25	1.03	0.00	0.00	13.85	3.17	0.19	0.02
11.30	1.06	0.00	0.00	13.90	3.18	0.19	0.02
11.35	1.08	0.00	0.00	13.95	3.19	0.19	0.02
11.40	1.10	0.00	0.00	14.00	3.20	0.20	0.02
11.45	1.13	0.00	0.00	14.05	3.21	0.20	0.02
11.50	1.16	0.00	0.00	14.10	3.21	0.20	0.02
11.55	1.19	0.00	0.00	14.15	3.22	0.20	0.02
11.60	1.23	0.00	0.00	14.20	3.23	0.21	0.02
11.65	1.28	0.00	0.00	14.25	3.24	0.21	0.02
11.70	1.32	0.00	0.00	14.30	3.25	0.21	0.02
11.75	1.37	0.00	0.00	14.35	3.25	0.21	0.02
11.80	1.43	0.00	0.00	14.40	3.26	0.21	0.02
11.85	1.51	0.00	0.00	14.45	3.27	0.22	0.02
11.90	1.59	0.00	0.00	14.50	3.28	0.22	0.02
11.95	1.73	0.00	0.00	14.55	3.28	0.22	0.02
12.00	1.86	0.00	0.00	14.60	3.29	0.22	0.01
12.05	2.09	0.01	0.01	14.65	3.30	0.22	0.01
12.10	2.32	0.03	0.04	14.70	3.30	0.22	0.01
12.15	2.40	0.04	**0.08**	14.75	3.31	0.23	0.01
12.20	2.48	0.05	**0.08**	14.80	3.32	0.23	0.01
12.25	2.54	0.06	0.08	14.85	3.32	0.23	0.01
12.30	2.59	0.07	0.07	14.90	3.33	0.23	0.01
12.35	2.63	0.08	0.07	14.95	3.33	0.23	0.01
12.40	2.68	0.08	0.06	15.00	3.34	0.23	0.01
12.45	2.72	0.09	0.06	15.05	3.34	0.24	0.01
12.50	2.75	0.10	0.06	15.10	3.35	0.24	0.01
12.55	2.78	0.10	0.06	15.15	3.36	0.24	0.01
12.60	2.81	0.11	0.05	15.20	3.36	0.24	0.01
12.65	2.83	0.11	0.04	15.25	3.37	0.24	0.01
12.70	2.85	0.12	0.04	15.30	3.37	0.24	0.01
12.75	2.88	0.12	0.04	15.35	3.38	0.25	0.01
12.80	2.90	0.13	0.04	15.40	3.38	0.25	0.01
12.85	2.92	0.13	0.04	15.45	3.39	0.25	0.01
12.90	2.94	0.13	0.03	15.50	3.39	0.25	0.01
12.95	2.95	0.14	0.03	15.55	3.40	0.25	0.01

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	3.40	0.25	0.01	18.20	3.61	0.32	0.01
15.65	3.41	0.25	0.01	18.25	3.62	0.32	0.01
15.70	3.41	0.26	0.01	18.30	3.62	0.32	0.01
15.75	3.42	0.26	0.01	18.35	3.62	0.32	0.01
15.80	3.42	0.26	0.01	18.40	3.63	0.32	0.01
15.85	3.43	0.26	0.01	18.45	3.63	0.32	0.01
15.90	3.43	0.26	0.01	18.50	3.63	0.32	0.01
15.95	3.44	0.26	0.01	18.55	3.63	0.32	0.01
16.00	3.44	0.26	0.01	18.60	3.64	0.32	0.01
16.05	3.45	0.27	0.01	18.65	3.64	0.32	0.01
16.10	3.45	0.27	0.01	18.70	3.64	0.33	0.01
16.15	3.46	0.27	0.01	18.75	3.65	0.33	0.01
16.20	3.46	0.27	0.01	18.80	3.65	0.33	0.01
16.25	3.46	0.27	0.01	18.85	3.65	0.33	0.01
16.30	3.47	0.27	0.01	18.90	3.66	0.33	0.01
16.35	3.47	0.27	0.01	18.95	3.66	0.33	0.01
16.40	3.48	0.27	0.01	19.00	3.66	0.33	0.01
16.45	3.48	0.28	0.01	19.05	3.66	0.33	0.01
16.50	3.49	0.28	0.01	19.10	3.67	0.33	0.01
16.55	3.49	0.28	0.01	19.15	3.67	0.33	0.01
16.60	3.50	0.28	0.01	19.20	3.67	0.34	0.01
16.65	3.50	0.28	0.01	19.25	3.68	0.34	0.01
16.70	3.50	0.28	0.01	19.30	3.68	0.34	0.01
16.75	3.51	0.28	0.01	19.35	3.68	0.34	0.01
16.80	3.51	0.29	0.01	19.40	3.68	0.34	0.01
16.85	3.52	0.29	0.01	19.45	3.69	0.34	0.01
16.90	3.52	0.29	0.01	19.50	3.69	0.34	0.01
16.95	3.52	0.29	0.01	19.55	3.69	0.34	0.01
17.00	3.53	0.29	0.01	19.60	3.70	0.34	0.01
17.05	3.53	0.29	0.01	19.65	3.70	0.34	0.01
17.10	3.54	0.29	0.01	19.70	3.70	0.34	0.01
17.15	3.54	0.29	0.01	19.75	3.70	0.35	0.01
17.20	3.54	0.29	0.01	19.80	3.71	0.35	0.01
17.25	3.55	0.30	0.01	19.85	3.71	0.35	0.01
17.30	3.55	0.30	0.01	19.90	3.71	0.35	0.01
17.35	3.56	0.30	0.01	19.95	3.72	0.35	0.01
17.40	3.56	0.30	0.01	20.00	3.72	0.35	0.01
17.45	3.56	0.30	0.01	20.05	3.72	0.35	0.01
17.50	3.57	0.30	0.01	20.10	3.72	0.35	0.01
17.55	3.57	0.30	0.01	20.15	3.73	0.35	0.01
17.60	3.57	0.30	0.01	20.20	3.73	0.35	0.01
17.65	3.58	0.30	0.01	20.25	3.73	0.35	0.01
17.70	3.58	0.31	0.01	20.30	3.74	0.36	0.01
17.75	3.58	0.31	0.01	20.35	3.74	0.36	0.01
17.80	3.59	0.31	0.01	20.40	3.74	0.36	0.01
17.85	3.59	0.31	0.01	20.45	3.74	0.36	0.01
17.90	3.59	0.31	0.01	20.50	3.75	0.36	0.01
17.95	3.60	0.31	0.01	20.55	3.75	0.36	0.01
18.00	3.60	0.31	0.01	20.60	3.75	0.36	0.01
18.05	3.60	0.31	0.01	20.65	3.75	0.36	0.01
18.10	3.61	0.31	0.01	20.70	3.76	0.36	0.01
18.15	3.61	0.31	0.01	20.75	3.76	0.36	0.01

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.76	0.36	0.01	23.40	3.88	0.41	0.01
20.85	3.76	0.36	0.01	23.45	3.89	0.41	0.01
20.90	3.77	0.37	0.01	23.50	3.89	0.41	0.01
20.95	3.77	0.37	0.01	23.55	3.89	0.41	0.01
21.00	3.77	0.37	0.01	23.60	3.89	0.41	0.01
21.05	3.77	0.37	0.01	23.65	3.89	0.41	0.01
21.10	3.78	0.37	0.01	23.70	3.90	0.41	0.01
21.15	3.78	0.37	0.01	23.75	3.90	0.41	0.01
21.20	3.78	0.37	0.01	23.80	3.90	0.41	0.01
21.25	3.78	0.37	0.01	23.85	3.90	0.41	0.01
21.30	3.79	0.37	0.01	23.90	3.90	0.41	0.01
21.35	3.79	0.37	0.01	23.95	3.91	0.41	0.01
21.40	3.79	0.37	0.01	24.00	**3.91**	**0.41**	0.01
21.45	3.79	0.38	0.01				
21.50	3.80	0.38	0.01				
21.55	3.80	0.38	0.01				
21.60	3.80	0.38	0.01				
21.65	3.80	0.38	0.01				
21.70	3.81	0.38	0.01				
21.75	3.81	0.38	0.01				
21.80	3.81	0.38	0.01				
21.85	3.81	0.38	0.01				
21.90	3.82	0.38	0.01				
21.95	3.82	0.38	0.01				
22.00	3.82	0.38	0.01				
22.05	3.82	0.39	0.01				
22.10	3.83	0.39	0.01				
22.15	3.83	0.39	0.01				
22.20	3.83	0.39	0.01				
22.25	3.83	0.39	0.01				
22.30	3.84	0.39	0.01				
22.35	3.84	0.39	0.01				
22.40	3.84	0.39	0.01				
22.45	3.84	0.39	0.01				
22.50	3.84	0.39	0.01				
22.55	3.85	0.39	0.01				
22.60	3.85	0.39	0.01				
22.65	3.85	0.39	0.01				
22.70	3.85	0.40	0.01				
22.75	3.86	0.40	0.01				
22.80	3.86	0.40	0.01				
22.85	3.86	0.40	0.01				
22.90	3.86	0.40	0.01				
22.95	3.87	0.40	0.01				
23.00	3.87	0.40	0.01				
23.05	3.87	0.40	0.01				
23.10	3.87	0.40	0.01				
23.15	3.87	0.40	0.01				
23.20	3.88	0.40	0.01				
23.25	3.88	0.40	0.01				
23.30	3.88	0.40	0.01				
23.35	3.88	0.41	0.01				

Summary for Subcatchment EDA1A IMP: EDA1A IMP

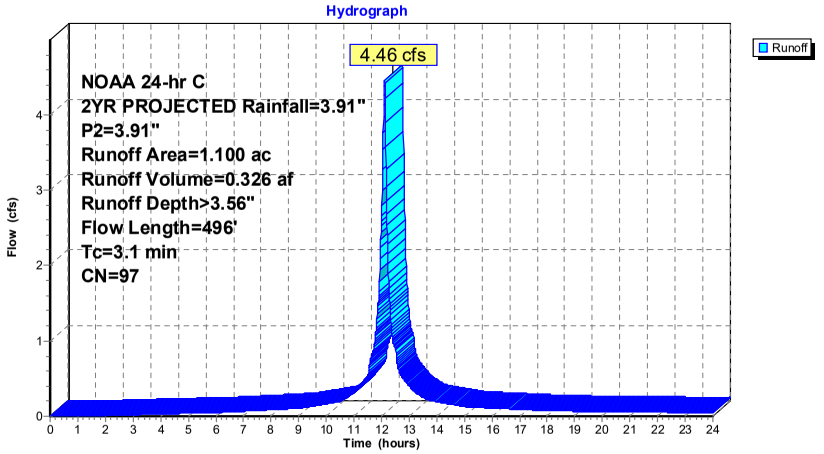
Runoff = 4.46 cfs @ 12.11 hrs, Volume= 0.326 af, Depth> 3.56"
Routed to Link E1A : E1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR PROJECTED Rainfall=3.91", P2=3.91"

	Area (ac)	CN	Description
	0.350	96	Gravel surface, HSG D
*	0.570	98	Impervious vehicular
*	0.180	98	Impervious non vehicular
	1.100	97	Weighted Average
	0.350		31.82% Pervious Area
	0.750		68.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0100	1.15		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
3.1	496	Total			

Subcatchment EDA1A IMP: EDA1A IMP



Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.12	0.01	0.01
0.05	0.00	0.00	0.00	2.65	0.12	0.01	0.02
0.10	0.01	0.00	0.00	2.70	0.12	0.01	0.02
0.15	0.01	0.00	0.00	2.75	0.13	0.01	0.02
0.20	0.01	0.00	0.00	2.80	0.13	0.01	0.02
0.25	0.01	0.00	0.00	2.85	0.13	0.01	0.02
0.30	0.01	0.00	0.00	2.90	0.13	0.01	0.02
0.35	0.02	0.00	0.00	2.95	0.14	0.01	0.02
0.40	0.02	0.00	0.00	3.00	0.14	0.02	0.02
0.45	0.02	0.00	0.00	3.05	0.14	0.02	0.02
0.50	0.02	0.00	0.00	3.10	0.14	0.02	0.02
0.55	0.02	0.00	0.00	3.15	0.15	0.02	0.02
0.60	0.03	0.00	0.00	3.20	0.15	0.02	0.02
0.65	0.03	0.00	0.00	3.25	0.15	0.02	0.02
0.70	0.03	0.00	0.00	3.30	0.15	0.02	0.02
0.75	0.03	0.00	0.00	3.35	0.16	0.02	0.02
0.80	0.03	0.00	0.00	3.40	0.16	0.02	0.02
0.85	0.04	0.00	0.00	3.45	0.16	0.02	0.02
0.90	0.04	0.00	0.00	3.50	0.16	0.03	0.03
0.95	0.04	0.00	0.00	3.55	0.17	0.03	0.03
1.00	0.04	0.00	0.00	3.60	0.17	0.03	0.03
1.05	0.04	0.00	0.00	3.65	0.17	0.03	0.03
1.10	0.05	0.00	0.00	3.70	0.17	0.03	0.03
1.15	0.05	0.00	0.00	3.75	0.18	0.03	0.03
1.20	0.05	0.00	0.00	3.80	0.18	0.03	0.03
1.25	0.05	0.00	0.00	3.85	0.18	0.03	0.03
1.30	0.06	0.00	0.00	3.90	0.19	0.04	0.03
1.35	0.06	0.00	0.00	3.95	0.19	0.04	0.03
1.40	0.06	0.00	0.00	4.00	0.19	0.04	0.03
1.45	0.06	0.00	0.00	4.05	0.19	0.04	0.03
1.50	0.07	0.00	0.00	4.10	0.20	0.04	0.03
1.55	0.07	0.00	0.00	4.15	0.20	0.04	0.03
1.60	0.07	0.00	0.00	4.20	0.20	0.04	0.03
1.65	0.07	0.00	0.00	4.25	0.21	0.05	0.03
1.70	0.07	0.00	0.00	4.30	0.21	0.05	0.03
1.75	0.08	0.00	0.00	4.35	0.21	0.05	0.03
1.80	0.08	0.00	0.00	4.40	0.21	0.05	0.03
1.85	0.08	0.00	0.00	4.45	0.22	0.05	0.03
1.90	0.08	0.00	0.01	4.50	0.22	0.05	0.03
1.95	0.09	0.00	0.01	4.55	0.22	0.05	0.04
2.00	0.09	0.00	0.01	4.60	0.23	0.06	0.04
2.05	0.09	0.00	0.01	4.65	0.23	0.06	0.04
2.10	0.09	0.00	0.01	4.70	0.23	0.06	0.04
2.15	0.10	0.00	0.01	4.75	0.23	0.06	0.04
2.20	0.10	0.00	0.01	4.80	0.24	0.06	0.04
2.25	0.10	0.00	0.01	4.85	0.24	0.07	0.04
2.30	0.10	0.00	0.01	4.90	0.24	0.07	0.04
2.35	0.11	0.01	0.01	4.95	0.25	0.07	0.04
2.40	0.11	0.01	0.01	5.00	0.25	0.07	0.04
2.45	0.11	0.01	0.01	5.05	0.25	0.07	0.04
2.50	0.11	0.01	0.01	5.10	0.25	0.07	0.04
2.55	0.12	0.01	0.01	5.15	0.26	0.08	0.04

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.26	0.08	0.04	7.80	0.45	0.22	0.08
5.25	0.26	0.08	0.04	7.85	0.45	0.22	0.08
5.30	0.27	0.08	0.04	7.90	0.46	0.22	0.08
5.35	0.27	0.08	0.04	7.95	0.46	0.23	0.08
5.40	0.27	0.09	0.04	8.00	0.47	0.23	0.08
5.45	0.28	0.09	0.04	8.05	0.47	0.23	0.09
5.50	0.28	0.09	0.04	8.10	0.48	0.24	0.09
5.55	0.28	0.09	0.04	8.15	0.48	0.24	0.09
5.60	0.28	0.09	0.04	8.20	0.49	0.25	0.09
5.65	0.29	0.10	0.05	8.25	0.49	0.25	0.09
5.70	0.29	0.10	0.05	8.30	0.50	0.25	0.09
5.75	0.29	0.10	0.05	8.35	0.50	0.26	0.09
5.80	0.30	0.10	0.05	8.40	0.51	0.26	0.09
5.85	0.30	0.10	0.05	8.45	0.51	0.27	0.09
5.90	0.30	0.11	0.05	8.50	0.52	0.27	0.09
5.95	0.31	0.11	0.05	8.55	0.52	0.28	0.09
6.00	0.31	0.11	0.05	8.60	0.53	0.28	0.10
6.05	0.31	0.11	0.05	8.65	0.53	0.28	0.10
6.10	0.32	0.11	0.05	8.70	0.54	0.29	0.10
6.15	0.32	0.12	0.05	8.75	0.54	0.29	0.10
6.20	0.32	0.12	0.05	8.80	0.55	0.30	0.10
6.25	0.33	0.12	0.05	8.85	0.55	0.30	0.10
6.30	0.33	0.12	0.05	8.90	0.56	0.31	0.10
6.35	0.33	0.13	0.05	8.95	0.57	0.31	0.10
6.40	0.34	0.13	0.05	9.00	0.57	0.32	0.10
6.45	0.34	0.13	0.06	9.05	0.58	0.32	0.11
6.50	0.34	0.13	0.06	9.10	0.58	0.33	0.11
6.55	0.35	0.14	0.06	9.15	0.59	0.33	0.11
6.60	0.35	0.14	0.06	9.20	0.59	0.34	0.11
6.65	0.35	0.14	0.06	9.25	0.60	0.34	0.12
6.70	0.36	0.15	0.06	9.30	0.61	0.35	0.12
6.75	0.36	0.15	0.06	9.35	0.61	0.35	0.12
6.80	0.37	0.15	0.06	9.40	0.62	0.36	0.13
6.85	0.37	0.15	0.06	9.45	0.63	0.37	0.13
6.90	0.37	0.16	0.06	9.50	0.63	0.37	0.13
6.95	0.38	0.16	0.06	9.55	0.64	0.38	0.14
7.00	0.38	0.16	0.07	9.60	0.65	0.38	0.14
7.05	0.39	0.17	0.07	9.65	0.66	0.39	0.14
7.10	0.39	0.17	0.07	9.70	0.66	0.40	0.15
7.15	0.39	0.17	0.07	9.75	0.67	0.40	0.15
7.20	0.40	0.17	0.07	9.80	0.68	0.41	0.15
7.25	0.40	0.18	0.07	9.85	0.69	0.42	0.16
7.30	0.41	0.18	0.07	9.90	0.70	0.43	0.16
7.35	0.41	0.18	0.07	9.95	0.70	0.43	0.16
7.40	0.41	0.19	0.07	10.00	0.71	0.44	0.16
7.45	0.42	0.19	0.07	10.05	0.72	0.45	0.17
7.50	0.42	0.19	0.07	10.10	0.73	0.46	0.17
7.55	0.43	0.20	0.08	10.15	0.74	0.47	0.18
7.60	0.43	0.20	0.08	10.20	0.75	0.47	0.18
7.65	0.44	0.21	0.08	10.25	0.76	0.48	0.18
7.70	0.44	0.21	0.08	10.30	0.77	0.49	0.18
7.75	0.45	0.21	0.08	10.35	0.78	0.50	0.19

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.79	0.51	0.19	13.00	2.97	2.63	0.40
10.45	0.80	0.52	0.19	13.05	2.99	2.65	0.38
10.50	0.81	0.53	0.20	13.10	3.00	2.66	0.36
10.55	0.82	0.54	0.21	13.15	3.02	2.68	0.34
10.60	0.83	0.55	0.22	13.20	3.03	2.69	0.32
10.65	0.84	0.56	0.23	13.25	3.04	2.70	0.31
10.70	0.85	0.57	0.24	13.30	3.06	2.72	0.30
10.75	0.87	0.58	0.25	13.35	3.07	2.73	0.29
10.80	0.88	0.59	0.26	13.40	3.08	2.74	0.27
10.85	0.89	0.61	0.28	13.45	3.09	2.75	0.26
10.90	0.91	0.62	0.29	13.50	3.10	2.76	0.25
10.95	0.92	0.63	0.30	13.55	3.11	2.77	0.24
11.00	0.94	0.65	0.31	13.60	3.12	2.78	0.23
11.05	0.96	0.66	0.33	13.65	3.13	2.79	0.22
11.10	0.97	0.68	0.35	13.70	3.14	2.80	0.21
11.15	0.99	0.70	0.38	13.75	3.15	2.81	0.21
11.20	1.01	0.72	0.40	13.80	3.16	2.82	0.21
11.25	1.03	0.74	0.42	13.85	3.17	2.83	0.20
11.30	1.06	0.76	0.44	13.90	3.18	2.84	0.20
11.35	1.08	0.78	0.47	13.95	3.19	2.85	0.20
11.40	1.10	0.80	0.49	14.00	3.20	2.85	0.19
11.45	1.13	0.83	0.51	14.05	3.21	2.86	0.19
11.50	1.16	0.85	0.53	14.10	3.21	2.87	0.19
11.55	1.19	0.89	0.64	14.15	3.22	2.88	0.18
11.60	1.23	0.93	0.75	14.20	3.23	2.89	0.18
11.65	1.28	0.97	0.82	14.25	3.24	2.89	0.18
11.70	1.32	1.01	0.86	14.30	3.25	2.90	0.17
11.75	1.37	1.06	1.00	14.35	3.25	2.91	0.17
11.80	1.43	1.12	1.13	14.40	3.26	2.92	0.17
11.85	1.51	1.19	1.36	14.45	3.27	2.92	0.16
11.90	1.59	1.27	1.56	14.50	3.28	2.93	0.16
11.95	1.73	1.40	2.10	14.55	3.28	2.94	0.16
12.00	1.86	1.54	2.60	14.60	3.29	2.95	0.15
12.05	2.09	1.76	3.54	14.65	3.30	2.95	0.15
12.10	2.32	1.99	**4.38**	14.70	3.30	2.96	0.15
12.15	2.40	2.06	**3.57**	14.75	3.31	2.96	0.14
12.20	2.48	2.14	2.53	14.80	3.32	2.97	0.14
12.25	2.54	2.20	1.89	14.85	3.32	2.98	0.14
12.30	2.59	2.25	1.50	14.90	3.33	2.98	0.14
12.35	2.63	2.30	1.22	14.95	3.33	2.99	0.13
12.40	2.68	2.34	1.03	15.00	3.34	2.99	0.13
12.45	2.72	2.38	0.94	15.05	3.34	3.00	0.13
12.50	2.75	2.42	0.89	15.10	3.35	3.01	0.12
12.55	2.78	2.44	0.76	15.15	3.36	3.01	0.12
12.60	2.81	2.47	0.65	15.20	3.36	3.02	0.12
12.65	2.83	2.49	0.58	15.25	3.37	3.02	0.12
12.70	2.85	2.51	0.55	15.30	3.37	3.03	0.12
12.75	2.88	2.53	0.52	15.35	3.38	3.03	0.12
12.80	2.90	2.56	0.49	15.40	3.38	3.04	0.12
12.85	2.92	2.58	0.47	15.45	3.39	3.04	0.12
12.90	2.94	2.60	0.45	15.50	3.39	3.05	0.11
12.95	2.95	2.61	0.42	15.55	3.40	3.05	0.11

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	3.40	3.06	0.11	18.20	3.61	3.27	0.07
15.65	3.41	3.06	0.11	18.25	3.62	3.27	0.07
15.70	3.41	3.07	0.11	18.30	3.62	3.27	0.07
15.75	3.42	3.07	0.11	18.35	3.62	3.28	0.07
15.80	3.42	3.08	0.11	18.40	3.63	3.28	0.07
15.85	3.43	3.08	0.11	18.45	3.63	3.28	0.07
15.90	3.43	3.09	0.11	18.50	3.63	3.28	0.07
15.95	3.44	3.09	0.11	18.55	3.63	3.29	0.07
16.00	3.44	3.10	0.11	18.60	3.64	3.29	0.07
16.05	3.45	3.10	0.10	18.65	3.64	3.29	0.07
16.10	3.45	3.11	0.10	18.70	3.64	3.30	0.07
16.15	3.46	3.11	0.10	18.75	3.65	3.30	0.07
16.20	3.46	3.11	0.10	18.80	3.65	3.30	0.07
16.25	3.46	3.12	0.10	18.85	3.65	3.31	0.07
16.30	3.47	3.12	0.10	18.90	3.66	3.31	0.07
16.35	3.47	3.13	0.10	18.95	3.66	3.31	0.07
16.40	3.48	3.13	0.10	19.00	3.66	3.31	0.07
16.45	3.48	3.14	0.10	19.05	3.66	3.32	0.07
16.50	3.49	3.14	0.10	19.10	3.67	3.32	0.07
16.55	3.49	3.15	0.10	19.15	3.67	3.32	0.06
16.60	3.50	3.15	0.10	19.20	3.67	3.33	0.06
16.65	3.50	3.15	0.09	19.25	3.68	3.33	0.06
16.70	3.50	3.16	0.09	19.30	3.68	3.33	0.06
16.75	3.51	3.16	0.09	19.35	3.68	3.34	0.06
16.80	3.51	3.17	0.09	19.40	3.68	3.34	0.06
16.85	3.52	3.17	0.09	19.45	3.69	3.34	0.06
16.90	3.52	3.17	0.09	19.50	3.69	3.34	0.06
16.95	3.52	3.18	0.09	19.55	3.69	3.35	0.06
17.00	3.53	3.18	0.09	19.60	3.70	3.35	0.06
17.05	3.53	3.19	0.09	19.65	3.70	3.35	0.06
17.10	3.54	3.19	0.09	19.70	3.70	3.35	0.06
17.15	3.54	3.19	0.09	19.75	3.70	3.36	0.06
17.20	3.54	3.20	0.09	19.80	3.71	3.36	0.06
17.25	3.55	3.20	0.08	19.85	3.71	3.36	0.06
17.30	3.55	3.21	0.08	19.90	3.71	3.37	0.06
17.35	3.56	3.21	0.08	19.95	3.72	3.37	0.06
17.40	3.56	3.21	0.08	20.00	3.72	3.37	0.06
17.45	3.56	3.22	0.08	20.05	3.72	3.37	0.06
17.50	3.57	3.22	0.08	20.10	3.72	3.38	0.06
17.55	3.57	3.22	0.08	20.15	3.73	3.38	0.06
17.60	3.57	3.23	0.08	20.20	3.73	3.38	0.06
17.65	3.58	3.23	0.08	20.25	3.73	3.39	0.06
17.70	3.58	3.23	0.08	20.30	3.74	3.39	0.06
17.75	3.58	3.24	0.08	20.35	3.74	3.39	0.06
17.80	3.59	3.24	0.08	20.40	3.74	3.39	0.06
17.85	3.59	3.24	0.07	20.45	3.74	3.40	0.06
17.90	3.59	3.25	0.07	20.50	3.75	3.40	0.06
17.95	3.60	3.25	0.07	20.55	3.75	3.40	0.06
18.00	3.60	3.25	0.07	20.60	3.75	3.40	0.06
18.05	3.60	3.26	0.07	20.65	3.75	3.41	0.06
18.10	3.61	3.26	0.07	20.70	3.76	3.41	0.06
18.15	3.61	3.26	0.07	20.75	3.76	3.41	0.06

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.76	3.41	0.06	23.40	3.88	3.54	0.05
20.85	3.76	3.42	0.06	23.45	3.89	3.54	0.05
20.90	3.77	3.42	0.06	23.50	3.89	3.54	0.05
20.95	3.77	3.42	0.06	23.55	3.89	3.54	0.05
21.00	3.77	3.42	0.06	23.60	3.89	3.54	0.05
21.05	3.77	3.43	0.06	23.65	3.89	3.55	0.05
21.10	3.78	3.43	0.06	23.70	3.90	3.55	0.05
21.15	3.78	3.43	0.06	23.75	3.90	3.55	0.05
21.20	3.78	3.43	0.06	23.80	3.90	3.55	0.05
21.25	3.78	3.44	0.06	23.85	3.90	3.55	0.04
21.30	3.79	3.44	0.06	23.90	3.90	3.56	0.04
21.35	3.79	3.44	0.06	23.95	3.91	3.56	0.05
21.40	3.79	3.44	0.06	24.00	**3.91**	**3.56**	0.05
21.45	3.79	3.45	0.06				
21.50	3.80	3.45	0.05				
21.55	3.80	3.45	0.05				
21.60	3.80	3.45	0.05				
21.65	3.80	3.46	0.05				
21.70	3.81	3.46	0.05				
21.75	3.81	3.46	0.05				
21.80	3.81	3.46	0.05				
21.85	3.81	3.47	0.05				
21.90	3.82	3.47	0.05				
21.95	3.82	3.47	0.05				
22.00	3.82	3.47	0.05				
22.05	3.82	3.48	0.05				
22.10	3.83	3.48	0.05				
22.15	3.83	3.48	0.05				
22.20	3.83	3.48	0.05				
22.25	3.83	3.49	0.05				
22.30	3.84	3.49	0.05				
22.35	3.84	3.49	0.05				
22.40	3.84	3.49	0.05				
22.45	3.84	3.49	0.05				
22.50	3.84	3.50	0.05				
22.55	3.85	3.50	0.05				
22.60	3.85	3.50	0.05				
22.65	3.85	3.50	0.05				
22.70	3.85	3.51	0.05				
22.75	3.86	3.51	0.05				
22.80	3.86	3.51	0.05				
22.85	3.86	3.51	0.05				
22.90	3.86	3.51	0.05				
22.95	3.87	3.52	0.05				
23.00	3.87	3.52	0.05				
23.05	3.87	3.52	0.05				
23.10	3.87	3.52	0.05				
23.15	3.87	3.53	0.05				
23.20	3.88	3.53	0.05				
23.25	3.88	3.53	0.05				
23.30	3.88	3.53	0.05				
23.35	3.88	3.53	0.05				

Summary for Subcatchment EDA1A PERV: EDA-1A PERV

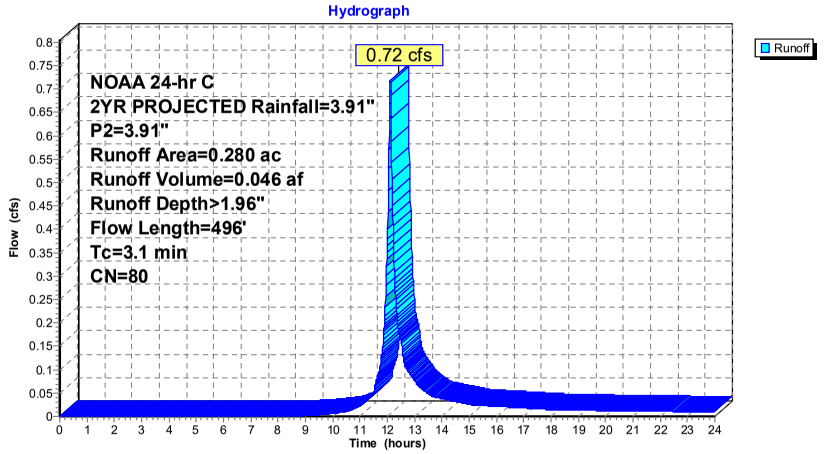
Runoff = 0.72 cfs @ 12.12 hrs, Volume= 0.046 af, Depth> 1.96"
Routed to Link E1A : E1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR PROJECTED Rainfall=3.91", P2=3.91"

Area (ac)	CN	Description
0.280	80	>75% Grass cover, Good, HSG D
0.280		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0100	1.15		**Sheet Flow, paved** Smooth surfaces n= 0.011 P2= 3.91"
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP-2 Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
3.1	496	Total			

Subcatchment EDA1A PERV: EDA-1A PERV



Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.12	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.12	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.12	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.13	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.13	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.13	0.00	0.00
0.30	0.01	0.00	0.00	2.90	0.13	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.14	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.14	0.00	0.00
0.45	0.02	0.00	0.00	3.05	0.14	0.00	0.00
0.50	0.02	0.00	0.00	3.10	0.14	0.00	0.00
0.55	0.02	0.00	0.00	3.15	0.15	0.00	0.00
0.60	0.03	0.00	0.00	3.20	0.15	0.00	0.00
0.65	0.03	0.00	0.00	3.25	0.15	0.00	0.00
0.70	0.03	0.00	0.00	3.30	0.15	0.00	0.00
0.75	0.03	0.00	0.00	3.35	0.16	0.00	0.00
0.80	0.03	0.00	0.00	3.40	0.16	0.00	0.00
0.85	0.04	0.00	0.00	3.45	0.16	0.00	0.00
0.90	0.04	0.00	0.00	3.50	0.16	0.00	0.00
0.95	0.04	0.00	0.00	3.55	0.17	0.00	0.00
1.00	0.04	0.00	0.00	3.60	0.17	0.00	0.00
1.05	0.04	0.00	0.00	3.65	0.17	0.00	0.00
1.10	0.05	0.00	0.00	3.70	0.17	0.00	0.00
1.15	0.05	0.00	0.00	3.75	0.18	0.00	0.00
1.20	0.05	0.00	0.00	3.80	0.18	0.00	0.00
1.25	0.05	0.00	0.00	3.85	0.18	0.00	0.00
1.30	0.06	0.00	0.00	3.90	0.19	0.00	0.00
1.35	0.06	0.00	0.00	3.95	0.19	0.00	0.00
1.40	0.06	0.00	0.00	4.00	0.19	0.00	0.00
1.45	0.06	0.00	0.00	4.05	0.19	0.00	0.00
1.50	0.07	0.00	0.00	4.10	0.20	0.00	0.00
1.55	0.07	0.00	0.00	4.15	0.20	0.00	0.00
1.60	0.07	0.00	0.00	4.20	0.20	0.00	0.00
1.65	0.07	0.00	0.00	4.25	0.21	0.00	0.00
1.70	0.07	0.00	0.00	4.30	0.21	0.00	0.00
1.75	0.08	0.00	0.00	4.35	0.21	0.00	0.00
1.80	0.08	0.00	0.00	4.40	0.21	0.00	0.00
1.85	0.08	0.00	0.00	4.45	0.22	0.00	0.00
1.90	0.08	0.00	0.00	4.50	0.22	0.00	0.00
1.95	0.09	0.00	0.00	4.55	0.22	0.00	0.00
2.00	0.09	0.00	0.00	4.60	0.23	0.00	0.00
2.05	0.09	0.00	0.00	4.65	0.23	0.00	0.00
2.10	0.09	0.00	0.00	4.70	0.23	0.00	0.00
2.15	0.10	0.00	0.00	4.75	0.23	0.00	0.00
2.20	0.10	0.00	0.00	4.80	0.24	0.00	0.00
2.25	0.10	0.00	0.00	4.85	0.24	0.00	0.00
2.30	0.10	0.00	0.00	4.90	0.24	0.00	0.00
2.35	0.11	0.00	0.00	4.95	0.25	0.00	0.00
2.40	0.11	0.00	0.00	5.00	0.25	0.00	0.00
2.45	0.11	0.00	0.00	5.05	0.25	0.00	0.00
2.50	0.11	0.00	0.00	5.10	0.25	0.00	0.00
2.55	0.12	0.00	0.00	5.15	0.26	0.00	0.00

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.26	0.00	0.00	7.80	0.45	0.00	0.00
5.25	0.26	0.00	0.00	7.85	0.45	0.00	0.00
5.30	0.27	0.00	0.00	7.90	0.46	0.00	0.00
5.35	0.27	0.00	0.00	7.95	0.46	0.00	0.00
5.40	0.27	0.00	0.00	8.00	0.47	0.00	0.00
5.45	0.28	0.00	0.00	8.05	0.47	0.00	0.00
5.50	0.28	0.00	0.00	8.10	0.48	0.00	0.00
5.55	0.28	0.00	0.00	8.15	0.48	0.00	0.00
5.60	0.28	0.00	0.00	8.20	0.49	0.00	0.00
5.65	0.29	0.00	0.00	8.25	0.49	0.00	0.00
5.70	0.29	0.00	0.00	8.30	0.50	0.00	0.00
5.75	0.29	0.00	0.00	8.35	0.50	0.00	0.00
5.80	0.30	0.00	0.00	8.40	0.51	0.00	0.00
5.85	0.30	0.00	0.00	8.45	0.51	0.00	0.00
5.90	0.30	0.00	0.00	8.50	0.52	0.00	0.00
5.95	0.31	0.00	0.00	8.55	0.52	0.00	0.00
6.00	0.31	0.00	0.00	8.60	0.53	0.00	0.00
6.05	0.31	0.00	0.00	8.65	0.53	0.00	0.00
6.10	0.32	0.00	0.00	8.70	0.54	0.00	0.00
6.15	0.32	0.00	0.00	8.75	0.54	0.00	0.00
6.20	0.32	0.00	0.00	8.80	0.55	0.00	0.00
6.25	0.33	0.00	0.00	8.85	0.55	0.00	0.00
6.30	0.33	0.00	0.00	8.90	0.56	0.00	0.00
6.35	0.33	0.00	0.00	8.95	0.57	0.00	0.00
6.40	0.34	0.00	0.00	9.00	0.57	0.00	0.00
6.45	0.34	0.00	0.00	9.05	0.58	0.00	0.00
6.50	0.34	0.00	0.00	9.10	0.58	0.00	0.00
6.55	0.35	0.00	0.00	9.15	0.59	0.00	0.00
6.60	0.35	0.00	0.00	9.20	0.59	0.00	0.00
6.65	0.35	0.00	0.00	9.25	0.60	0.00	0.00
6.70	0.36	0.00	0.00	9.30	0.61	0.00	0.00
6.75	0.36	0.00	0.00	9.35	0.61	0.00	0.00
6.80	0.37	0.00	0.00	9.40	0.62	0.01	0.00
6.85	0.37	0.00	0.00	9.45	0.63	0.01	0.00
6.90	0.37	0.00	0.00	9.50	0.63	0.01	0.00
6.95	0.38	0.00	0.00	9.55	0.64	0.01	0.00
7.00	0.38	0.00	0.00	9.60	0.65	0.01	0.00
7.05	0.39	0.00	0.00	9.65	0.66	0.01	0.00
7.10	0.39	0.00	0.00	9.70	0.66	0.01	0.00
7.15	0.39	0.00	0.00	9.75	0.67	0.01	0.01
7.20	0.40	0.00	0.00	9.80	0.68	0.01	0.01
7.25	0.40	0.00	0.00	9.85	0.69	0.01	0.01
7.30	0.41	0.00	0.00	9.90	0.70	0.01	0.01
7.35	0.41	0.00	0.00	9.95	0.70	0.02	0.01
7.40	0.41	0.00	0.00	10.00	0.71	0.02	0.01
7.45	0.42	0.00	0.00	10.05	0.72	0.02	0.01
7.50	0.42	0.00	0.00	10.10	0.73	0.02	0.01
7.55	0.43	0.00	0.00	10.15	0.74	0.02	0.01
7.60	0.43	0.00	0.00	10.20	0.75	0.02	0.01
7.65	0.44	0.00	0.00	10.25	0.76	0.02	0.01
7.70	0.44	0.00	0.00	10.30	0.77	0.03	0.01
7.75	0.45	0.00	0.00	10.35	0.78	0.03	0.01

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.79	0.03	0.01	13.00	2.97	1.23	0.08
10.45	0.80	0.03	0.01	13.05	2.99	1.24	0.07
10.50	0.81	0.03	0.01	13.10	3.00	1.25	0.07
10.55	0.82	0.04	0.01	13.15	3.02	1.26	0.06
10.60	0.83	0.04	0.01	13.20	3.03	1.27	0.06
10.65	0.84	0.04	0.01	13.25	3.04	1.28	0.06
10.70	0.85	0.04	0.01	13.30	3.06	1.29	0.06
10.75	0.87	0.05	0.02	13.35	3.07	1.30	0.06
10.80	0.88	0.05	0.02	13.40	3.08	1.31	0.05
10.85	0.89	0.05	0.02	13.45	3.09	1.32	0.05
10.90	0.91	0.06	0.02	13.50	3.10	1.33	0.05
10.95	0.92	0.06	0.02	13.55	3.11	1.34	0.05
11.00	0.94	0.07	0.02	13.60	3.12	1.34	0.04
11.05	0.96	0.07	0.02	13.65	3.13	1.35	0.04
11.10	0.97	0.08	0.03	13.70	3.14	1.36	0.04
11.15	0.99	0.08	0.03	13.75	3.15	1.37	0.04
11.20	1.01	0.09	0.03	13.80	3.16	1.37	0.04
11.25	1.03	0.09	0.04	13.85	3.17	1.38	0.04
11.30	1.06	0.10	0.04	13.90	3.18	1.39	0.04
11.35	1.08	0.11	0.04	13.95	3.19	1.39	0.04
11.40	1.10	0.12	0.04	14.00	3.20	1.40	0.04
11.45	1.13	0.13	0.05	14.05	3.21	1.41	0.04
11.50	1.16	0.14	0.05	14.10	3.21	1.41	0.04
11.55	1.19	0.15	0.06	14.15	3.22	1.42	0.04
11.60	1.23	0.17	0.08	14.20	3.23	1.43	0.04
11.65	1.28	0.18	0.09	14.25	3.24	1.43	0.04
11.70	1.32	0.20	0.09	14.30	3.25	1.44	0.03
11.75	1.37	0.23	0.11	14.35	3.25	1.44	0.03
11.80	1.43	0.25	0.13	14.40	3.26	1.45	0.03
11.85	1.51	0.29	0.17	14.45	3.27	1.45	0.03
11.90	1.59	0.33	0.20	14.50	3.28	1.46	0.03
11.95	1.73	0.40	0.28	14.55	3.28	1.47	0.03
12.00	1.86	0.48	0.37	14.60	3.29	1.47	0.03
12.05	2.09	0.62	0.53	14.65	3.30	1.48	0.03
12.10	2.32	0.77	**0.69**	14.70	3.30	1.48	0.03
12.15	2.40	0.82	**0.59**	14.75	3.31	1.49	0.03
12.20	2.48	0.87	0.43	14.80	3.32	1.49	0.03
12.25	2.54	0.91	0.33	14.85	3.32	1.50	0.03
12.30	2.59	0.95	0.26	14.90	3.33	1.50	0.03
12.35	2.63	0.98	0.22	14.95	3.33	1.51	0.03
12.40	2.68	1.01	0.19	15.00	3.34	1.51	0.03
12.45	2.72	1.04	0.17	15.05	3.34	1.51	0.03
12.50	2.75	1.07	0.16	15.10	3.35	1.52	0.02
12.55	2.78	1.09	0.14	15.15	3.36	1.52	0.02
12.60	2.81	1.11	0.12	15.20	3.36	1.53	0.02
12.65	2.83	1.12	0.11	15.25	3.37	1.53	0.02
12.70	2.85	1.14	0.10	15.30	3.37	1.53	0.02
12.75	2.88	1.16	0.10	15.35	3.38	1.54	0.02
12.80	2.90	1.17	0.09	15.40	3.38	1.54	0.02
12.85	2.92	1.19	0.09	15.45	3.39	1.55	0.02
12.90	2.94	1.20	0.09	15.50	3.39	1.55	0.02
12.95	2.95	1.22	0.08	15.55	3.40	1.56	0.02

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	3.40	1.56	0.02	18.20	3.61	1.73	0.01
15.65	3.41	1.56	0.02	18.25	3.62	1.73	0.01
15.70	3.41	1.57	0.02	18.30	3.62	1.73	0.01
15.75	3.42	1.57	0.02	18.35	3.62	1.73	0.01
15.80	3.42	1.57	0.02	18.40	3.63	1.74	0.01
15.85	3.43	1.58	0.02	18.45	3.63	1.74	0.01
15.90	3.43	1.58	0.02	18.50	3.63	1.74	0.01
15.95	3.44	1.59	0.02	18.55	3.63	1.74	0.01
16.00	3.44	1.59	0.02	18.60	3.64	1.75	0.01
16.05	3.45	1.59	0.02	18.65	3.64	1.75	0.01
16.10	3.45	1.60	0.02	18.70	3.64	1.75	0.01
16.15	3.46	1.60	0.02	18.75	3.65	1.75	0.01
16.20	3.46	1.60	0.02	18.80	3.65	1.76	0.01
16.25	3.46	1.61	0.02	18.85	3.65	1.76	0.01
16.30	3.47	1.61	0.02	18.90	3.66	1.76	0.01
16.35	3.47	1.62	0.02	18.95	3.66	1.76	0.01
16.40	3.48	1.62	0.02	19.00	3.66	1.77	0.01
16.45	3.48	1.62	0.02	19.05	3.66	1.77	0.01
16.50	3.49	1.63	0.02	19.10	3.67	1.77	0.01
16.55	3.49	1.63	0.02	19.15	3.67	1.77	0.01
16.60	3.50	1.63	0.02	19.20	3.67	1.77	0.01
16.65	3.50	1.64	0.02	19.25	3.68	1.78	0.01
16.70	3.50	1.64	0.02	19.30	3.68	1.78	0.01
16.75	3.51	1.64	0.02	19.35	3.68	1.78	0.01
16.80	3.51	1.65	0.02	19.40	3.68	1.78	0.01
16.85	3.52	1.65	0.02	19.45	3.69	1.79	0.01
16.90	3.52	1.65	0.02	19.50	3.69	1.79	0.01
16.95	3.52	1.66	0.02	19.55	3.69	1.79	0.01
17.00	3.53	1.66	0.02	19.60	3.70	1.79	0.01
17.05	3.53	1.66	0.02	19.65	3.70	1.80	0.01
17.10	3.54	1.67	0.02	19.70	3.70	1.80	0.01
17.15	3.54	1.67	0.02	19.75	3.70	1.80	0.01
17.20	3.54	1.67	0.02	19.80	3.71	1.80	0.01
17.25	3.55	1.67	0.02	19.85	3.71	1.80	0.01
17.30	3.55	1.68	0.02	19.90	3.71	1.81	0.01
17.35	3.56	1.68	0.02	19.95	3.72	1.81	0.01
17.40	3.56	1.68	0.02	20.00	3.72	1.81	0.01
17.45	3.56	1.69	0.02	20.05	3.72	1.81	0.01
17.50	3.57	1.69	0.02	20.10	3.72	1.82	0.01
17.55	3.57	1.69	0.02	20.15	3.73	1.82	0.01
17.60	3.57	1.69	0.02	20.20	3.73	1.82	0.01
17.65	3.58	1.70	0.02	20.25	3.73	1.82	0.01
17.70	3.58	1.70	0.02	20.30	3.74	1.82	0.01
17.75	3.58	1.70	0.02	20.35	3.74	1.83	0.01
17.80	3.59	1.71	0.02	20.40	3.74	1.83	0.01
17.85	3.59	1.71	0.02	20.45	3.74	1.83	0.01
17.90	3.59	1.71	0.02	20.50	3.75	1.83	0.01
17.95	3.60	1.71	0.01	20.55	3.75	1.84	0.01
18.00	3.60	1.72	0.01	20.60	3.75	1.84	0.01
18.05	3.60	1.72	0.01	20.65	3.75	1.84	0.01
18.10	3.61	1.72	0.01	20.70	3.76	1.84	0.01
18.15	3.61	1.72	0.01	20.75	3.76	1.84	0.01

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.76	1.85	0.01	23.40	3.88	1.95	0.01
20.85	3.76	1.85	0.01	23.45	3.89	1.95	0.01
20.90	3.77	1.85	0.01	23.50	3.89	1.95	0.01
20.95	3.77	1.85	0.01	23.55	3.89	1.95	0.01
21.00	3.77	1.85	0.01	23.60	3.89	1.95	0.01
21.05	3.77	1.86	0.01	23.65	3.89	1.96	0.01
21.10	3.78	1.86	0.01	23.70	3.90	1.96	0.01
21.15	3.78	1.86	0.01	23.75	3.90	1.96	0.01
21.20	3.78	1.86	0.01	23.80	3.90	1.96	0.01
21.25	3.78	1.87	0.01	23.85	3.90	1.96	0.01
21.30	3.79	1.87	0.01	23.90	3.90	1.96	0.01
21.35	3.79	1.87	0.01	23.95	3.91	1.97	0.01
21.40	3.79	1.87	0.01	24.00	**3.91**	**1.97**	0.01
21.45	3.79	1.87	0.01				
21.50	3.80	1.88	0.01				
21.55	3.80	1.88	0.01				
21.60	3.80	1.88	0.01				
21.65	3.80	1.88	0.01				
21.70	3.81	1.88	0.01				
21.75	3.81	1.89	0.01				
21.80	3.81	1.89	0.01				
21.85	3.81	1.89	0.01				
21.90	3.82	1.89	0.01				
21.95	3.82	1.89	0.01				
22.00	3.82	1.90	0.01				
22.05	3.82	1.90	0.01				
22.10	3.83	1.90	0.01				
22.15	3.83	1.90	0.01				
22.20	3.83	1.90	0.01				
22.25	3.83	1.90	0.01				
22.30	3.84	1.91	0.01				
22.35	3.84	1.91	0.01				
22.40	3.84	1.91	0.01				
22.45	3.84	1.91	0.01				
22.50	3.84	1.91	0.01				
22.55	3.85	1.92	0.01				
22.60	3.85	1.92	0.01				
22.65	3.85	1.92	0.01				
22.70	3.85	1.92	0.01				
22.75	3.86	1.92	0.01				
22.80	3.86	1.93	0.01				
22.85	3.86	1.93	0.01				
22.90	3.86	1.93	0.01				
22.95	3.87	1.93	0.01				
23.00	3.87	1.93	0.01				
23.05	3.87	1.93	0.01				
23.10	3.87	1.94	0.01				
23.15	3.87	1.94	0.01				
23.20	3.88	1.94	0.01				
23.25	3.88	1.94	0.01				
23.30	3.88	1.94	0.01				
23.35	3.88	1.94	0.01				

Summary for Subcatchment EDA1B IMP: EDA1B IMP

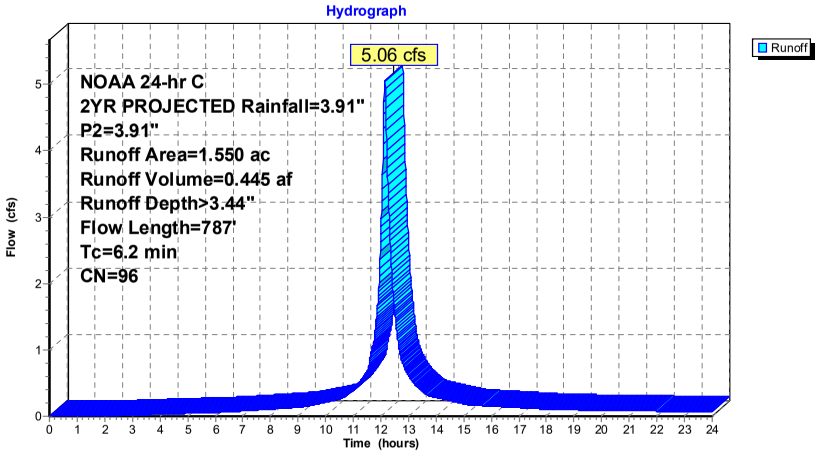
Runoff = 5.06 cfs @ 12.14 hrs, Volume= 0.445 af, Depth> 3.44"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR PROJECTED Rainfall=3.91", P2=3.91"

	Area (ac)	CN	Description
	0.940	96	Gravel surface, HSG A
	0.310	96	Gravel surface, HSG D
*	0.190	98	Impervious vehicular
*	0.110	98	Impervious non vehicular
	1.550	96	Weighted Average
	1.250		80.65% Pervious Area
	0.300		19.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0100	1.15		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
1.0	93	0.0100	1.50		**Shallow Concentrated Flow, Paved** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.9	93	0.0011	1.71	3.02	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
6.2	787	Total			

Subcatchment EDA1B IMP: EDA1B IMP



Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.12	0.00	0.01
0.05	0.00	0.00	0.00	2.65	0.12	0.00	0.01
0.10	0.01	0.00	0.00	2.70	0.12	0.00	0.01
0.15	0.01	0.00	0.00	2.75	0.13	0.00	0.01
0.20	0.01	0.00	0.00	2.80	0.13	0.00	0.01
0.25	0.01	0.00	0.00	2.85	0.13	0.00	0.01
0.30	0.01	0.00	0.00	2.90	0.13	0.01	0.01
0.35	0.02	0.00	0.00	2.95	0.14	0.01	0.01
0.40	0.02	0.00	0.00	3.00	0.14	0.01	0.02
0.45	0.02	0.00	0.00	3.05	0.14	0.01	0.02
0.50	0.02	0.00	0.00	3.10	0.14	0.01	0.02
0.55	0.02	0.00	0.00	3.15	0.15	0.01	0.02
0.60	0.03	0.00	0.00	3.20	0.15	0.01	0.02
0.65	0.03	0.00	0.00	3.25	0.15	0.01	0.02
0.70	0.03	0.00	0.00	3.30	0.15	0.01	0.02
0.75	0.03	0.00	0.00	3.35	0.16	0.01	0.02
0.80	0.03	0.00	0.00	3.40	0.16	0.01	0.02
0.85	0.04	0.00	0.00	3.45	0.16	0.01	0.02
0.90	0.04	0.00	0.00	3.50	0.16	0.01	0.02
0.95	0.04	0.00	0.00	3.55	0.17	0.01	0.02
1.00	0.04	0.00	0.00	3.60	0.17	0.01	0.02
1.05	0.04	0.00	0.00	3.65	0.17	0.02	0.02
1.10	0.05	0.00	0.00	3.70	0.17	0.02	0.03
1.15	0.05	0.00	0.00	3.75	0.18	0.02	0.03
1.20	0.05	0.00	0.00	3.80	0.18	0.02	0.03
1.25	0.05	0.00	0.00	3.85	0.18	0.02	0.03
1.30	0.06	0.00	0.00	3.90	0.19	0.02	0.03
1.35	0.06	0.00	0.00	3.95	0.19	0.02	0.03
1.40	0.06	0.00	0.00	4.00	0.19	0.02	0.03
1.45	0.06	0.00	0.00	4.05	0.19	0.02	0.03
1.50	0.07	0.00	0.00	4.10	0.20	0.02	0.03
1.55	0.07	0.00	0.00	4.15	0.20	0.03	0.03
1.60	0.07	0.00	0.00	4.20	0.20	0.03	0.03
1.65	0.07	0.00	0.00	4.25	0.21	0.03	0.03
1.70	0.07	0.00	0.00	4.30	0.21	0.03	0.03
1.75	0.08	0.00	0.00	4.35	0.21	0.03	0.03
1.80	0.08	0.00	0.00	4.40	0.21	0.03	0.04
1.85	0.08	0.00	0.00	4.45	0.22	0.03	0.04
1.90	0.08	0.00	0.00	4.50	0.22	0.03	0.04
1.95	0.09	0.00	0.00	4.55	0.22	0.03	0.04
2.00	0.09	0.00	0.00	4.60	0.23	0.04	0.04
2.05	0.09	0.00	0.00	4.65	0.23	0.04	0.04
2.10	0.09	0.00	0.00	4.70	0.23	0.04	0.04
2.15	0.10	0.00	0.00	4.75	0.23	0.04	0.04
2.20	0.10	0.00	0.00	4.80	0.24	0.04	0.04
2.25	0.10	0.00	0.00	4.85	0.24	0.04	0.04
2.30	0.10	0.00	0.00	4.90	0.24	0.04	0.04
2.35	0.11	0.00	0.00	4.95	0.25	0.05	0.04
2.40	0.11	0.00	0.01	5.00	0.25	0.05	0.04
2.45	0.11	0.00	0.01	5.05	0.25	0.05	0.04
2.50	0.11	0.00	0.01	5.10	0.25	0.05	0.04
2.55	0.12	0.00	0.01	5.15	0.26	0.05	0.05

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.26	0.05	0.05	7.80	0.45	0.17	0.10
5.25	0.26	0.05	0.05	7.85	0.45	0.17	0.10
5.30	0.27	0.06	0.05	7.90	0.46	0.18	0.10
5.35	0.27	0.06	0.05	7.95	0.46	0.18	0.10
5.40	0.27	0.06	0.05	8.00	0.47	0.18	0.10
5.45	0.28	0.06	0.05	8.05	0.47	0.19	0.11
5.50	0.28	0.06	0.05	8.10	0.48	0.19	0.11
5.55	0.28	0.06	0.05	8.15	0.48	0.20	0.11
5.60	0.28	0.07	0.05	8.20	0.49	0.20	0.11
5.65	0.29	0.07	0.05	8.25	0.49	0.20	0.11
5.70	0.29	0.07	0.05	8.30	0.50	0.21	0.11
5.75	0.29	0.07	0.05	8.35	0.50	0.21	0.11
5.80	0.30	0.07	0.05	8.40	0.51	0.21	0.11
5.85	0.30	0.07	0.05	8.45	0.51	0.22	0.12
5.90	0.30	0.08	0.05	8.50	0.52	0.22	0.12
5.95	0.31	0.08	0.05	8.55	0.52	0.23	0.12
6.00	0.31	0.08	0.06	8.60	0.53	0.23	0.12
6.05	0.31	0.08	0.06	8.65	0.53	0.23	0.12
6.10	0.32	0.08	0.06	8.70	0.54	0.24	0.12
6.15	0.32	0.09	0.06	8.75	0.54	0.24	0.12
6.20	0.32	0.09	0.06	8.80	0.55	0.25	0.13
6.25	0.33	0.09	0.06	8.85	0.55	0.25	0.13
6.30	0.33	0.09	0.06	8.90	0.56	0.25	0.13
6.35	0.33	0.09	0.06	8.95	0.57	0.26	0.13
6.40	0.34	0.10	0.06	9.00	0.57	0.26	0.13
6.45	0.34	0.10	0.06	9.05	0.58	0.27	0.13
6.50	0.34	0.10	0.07	9.10	0.58	0.27	0.14
6.55	0.35	0.10	0.07	9.15	0.59	0.28	0.14
6.60	0.35	0.10	0.07	9.20	0.59	0.28	0.14
6.65	0.35	0.11	0.07	9.25	0.60	0.29	0.15
6.70	0.36	0.11	0.07	9.30	0.61	0.29	0.15
6.75	0.36	0.11	0.07	9.35	0.61	0.30	0.15
6.80	0.37	0.11	0.07	9.40	0.62	0.30	0.16
6.85	0.37	0.12	0.07	9.45	0.63	0.31	0.16
6.90	0.37	0.12	0.08	9.50	0.63	0.31	0.17
6.95	0.38	0.12	0.08	9.55	0.64	0.32	0.17
7.00	0.38	0.12	0.08	9.60	0.65	0.33	0.18
7.05	0.39	0.13	0.08	9.65	0.66	0.33	0.18
7.10	0.39	0.13	0.08	9.70	0.66	0.34	0.18
7.15	0.39	0.13	0.08	9.75	0.67	0.34	0.19
7.20	0.40	0.14	0.08	9.80	0.68	0.35	0.19
7.25	0.40	0.14	0.08	9.85	0.69	0.36	0.20
7.30	0.41	0.14	0.09	9.90	0.70	0.36	0.20
7.35	0.41	0.14	0.09	9.95	0.70	0.37	0.21
7.40	0.41	0.15	0.09	10.00	0.71	0.38	0.21
7.45	0.42	0.15	0.09	10.05	0.72	0.39	0.22
7.50	0.42	0.15	0.09	10.10	0.73	0.39	0.22
7.55	0.43	0.16	0.09	10.15	0.74	0.40	0.22
7.60	0.43	0.16	0.09	10.20	0.75	0.41	0.23
7.65	0.44	0.16	0.09	10.25	0.76	0.42	0.23
7.70	0.44	0.16	0.10	10.30	0.77	0.42	0.24
7.75	0.45	0.17	0.10	10.35	0.78	0.43	0.24

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.79	0.44	0.25	13.00	2.97	2.52	0.61
10.45	0.80	0.45	0.25	13.05	2.99	2.54	0.58
10.50	0.81	0.46	0.26	13.10	3.00	2.55	0.55
10.55	0.82	0.47	0.26	13.15	3.02	2.57	0.52
10.60	0.83	0.48	0.27	13.20	3.03	2.58	0.49
10.65	0.84	0.49	0.29	13.25	3.04	2.60	0.47
10.70	0.85	0.50	0.30	13.30	3.06	2.61	0.45
10.75	0.87	0.51	0.31	13.35	3.07	2.62	0.43
10.80	0.88	0.52	0.33	13.40	3.08	2.63	0.41
10.85	0.89	0.53	0.35	13.45	3.09	2.64	0.40
10.90	0.91	0.55	0.36	13.50	3.10	2.65	0.38
10.95	0.92	0.56	0.38	13.55	3.11	2.66	0.36
11.00	0.94	0.57	0.40	13.60	3.12	2.67	0.34
11.05	0.96	0.59	0.41	13.65	3.13	2.68	0.33
11.10	0.97	0.61	0.44	13.70	3.14	2.69	0.32
11.15	0.99	0.62	0.46	13.75	3.15	2.70	0.31
11.20	1.01	0.64	0.49	13.80	3.16	2.71	0.30
11.25	1.03	0.66	0.52	13.85	3.17	2.72	0.29
11.30	1.06	0.68	0.55	13.90	3.18	2.73	0.29
11.35	1.08	0.70	0.58	13.95	3.19	2.74	0.28
11.40	1.10	0.73	0.61	14.00	3.20	2.75	0.28
11.45	1.13	0.75	0.64	14.05	3.21	2.75	0.27
11.50	1.16	0.77	0.67	14.10	3.21	2.76	0.27
11.55	1.19	0.81	0.73	14.15	3.22	2.77	0.26
11.60	1.23	0.85	0.86	14.20	3.23	2.78	0.26
11.65	1.28	0.88	0.96	14.25	3.24	2.79	0.26
11.70	1.32	0.92	1.05	14.30	3.25	2.79	0.25
11.75	1.37	0.98	1.14	14.35	3.25	2.80	0.25
11.80	1.43	1.03	1.31	14.40	3.26	2.81	0.24
11.85	1.51	1.11	1.50	14.45	3.27	2.82	0.24
11.90	1.59	1.18	1.77	14.50	3.28	2.82	0.23
11.95	1.73	1.31	2.11	14.55	3.28	2.83	0.23
12.00	1.86	1.44	2.74	14.60	3.29	2.84	0.22
12.05	2.09	1.66	3.43	14.65	3.30	2.84	0.22
12.10	2.32	1.89	**4.55**	14.70	3.30	2.85	0.21
12.15	2.40	1.96	**5.04**	14.75	3.31	2.86	0.21
12.20	2.48	2.04	4.30	14.80	3.32	2.86	0.21
12.25	2.54	2.10	3.62	14.85	3.32	2.87	0.20
12.30	2.59	2.15	3.01	14.90	3.33	2.87	0.20
12.35	2.63	2.19	2.55	14.95	3.33	2.88	0.19
12.40	2.68	2.23	2.12	15.00	3.34	2.89	0.19
12.45	2.72	2.27	1.81	15.05	3.34	2.89	0.18
12.50	2.75	2.31	1.59	15.10	3.35	2.90	0.18
12.55	2.78	2.34	1.41	15.15	3.36	2.90	0.18
12.60	2.81	2.36	1.19	15.20	3.36	2.91	0.17
12.65	2.83	2.38	1.04	15.25	3.37	2.91	0.17
12.70	2.85	2.41	0.93	15.30	3.37	2.92	0.17
12.75	2.88	2.43	0.85	15.35	3.38	2.92	0.17
12.80	2.90	2.45	0.78	15.40	3.38	2.93	0.16
12.85	2.92	2.47	0.73	15.45	3.39	2.93	0.16
12.90	2.94	2.49	0.69	15.50	3.39	2.94	0.16
12.95	2.95	2.51	0.65	15.55	3.40	2.94	0.16

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	3.40	2.95	0.16	18.20	3.61	3.16	0.10
15.65	3.41	2.95	0.16	18.25	3.62	3.16	0.10
15.70	3.41	2.96	0.16	18.30	3.62	3.16	0.10
15.75	3.42	2.96	0.16	18.35	3.62	3.17	0.10
15.80	3.42	2.97	0.15	18.40	3.63	3.17	0.10
15.85	3.43	2.97	0.15	18.45	3.63	3.17	0.10
15.90	3.43	2.98	0.15	18.50	3.63	3.18	0.10
15.95	3.44	2.98	0.15	18.55	3.63	3.18	0.10
16.00	3.44	2.99	0.15	18.60	3.64	3.18	0.09
16.05	3.45	2.99	0.15	18.65	3.64	3.18	0.09
16.10	3.45	3.00	0.15	18.70	3.64	3.19	0.09
16.15	3.46	3.00	0.15	18.75	3.65	3.19	0.09
16.20	3.46	3.01	0.15	18.80	3.65	3.19	0.09
16.25	3.46	3.01	0.14	18.85	3.65	3.20	0.09
16.30	3.47	3.01	0.14	18.90	3.66	3.20	0.09
16.35	3.47	3.02	0.14	18.95	3.66	3.20	0.09
16.40	3.48	3.02	0.14	19.00	3.66	3.20	0.09
16.45	3.48	3.03	0.14	19.05	3.66	3.21	0.09
16.50	3.49	3.03	0.14	19.10	3.67	3.21	0.09
16.55	3.49	3.04	0.14	19.15	3.67	3.21	0.09
16.60	3.50	3.04	0.14	19.20	3.67	3.22	0.09
16.65	3.50	3.05	0.13	19.25	3.68	3.22	0.09
16.70	3.50	3.05	0.13	19.30	3.68	3.22	0.09
16.75	3.51	3.05	0.13	19.35	3.68	3.23	0.09
16.80	3.51	3.06	0.13	19.40	3.68	3.23	0.09
16.85	3.52	3.06	0.13	19.45	3.69	3.23	0.09
16.90	3.52	3.07	0.13	19.50	3.69	3.23	0.09
16.95	3.52	3.07	0.13	19.55	3.69	3.24	0.09
17.00	3.53	3.07	0.13	19.60	3.70	3.24	0.09
17.05	3.53	3.08	0.13	19.65	3.70	3.24	0.09
17.10	3.54	3.08	0.12	19.70	3.70	3.24	0.09
17.15	3.54	3.09	0.12	19.75	3.70	3.25	0.09
17.20	3.54	3.09	0.12	19.80	3.71	3.25	0.09
17.25	3.55	3.09	0.12	19.85	3.71	3.25	0.09
17.30	3.55	3.10	0.12	19.90	3.71	3.26	0.09
17.35	3.56	3.10	0.12	19.95	3.72	3.26	0.09
17.40	3.56	3.10	0.12	20.00	3.72	3.26	0.09
17.45	3.56	3.11	0.12	20.05	3.72	3.26	0.09
17.50	3.57	3.11	0.11	20.10	3.72	3.27	0.09
17.55	3.57	3.11	0.11	20.15	3.73	3.27	0.09
17.60	3.57	3.12	0.11	20.20	3.73	3.27	0.09
17.65	3.58	3.12	0.11	20.25	3.73	3.28	0.09
17.70	3.58	3.12	0.11	20.30	3.74	3.28	0.08
17.75	3.58	3.13	0.11	20.35	3.74	3.28	0.08
17.80	3.59	3.13	0.11	20.40	3.74	3.28	0.08
17.85	3.59	3.13	0.11	20.45	3.74	3.29	0.08
17.90	3.59	3.14	0.10	20.50	3.75	3.29	0.08
17.95	3.60	3.14	0.10	20.55	3.75	3.29	0.08
18.00	3.60	3.14	0.10	20.60	3.75	3.29	0.08
18.05	3.60	3.15	0.10	20.65	3.75	3.30	0.08
18.10	3.61	3.15	0.10	20.70	3.76	3.30	0.08
18.15	3.61	3.15	0.10	20.75	3.76	3.30	0.08

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.76	3.30	0.08	23.40	3.88	3.43	0.07
20.85	3.76	3.31	0.08	23.45	3.89	3.43	0.07
20.90	3.77	3.31	0.08	23.50	3.89	3.43	0.07
20.95	3.77	3.31	0.08	23.55	3.89	3.43	0.07
21.00	3.77	3.31	0.08	23.60	3.89	3.43	0.06
21.05	3.77	3.32	0.08	23.65	3.89	3.44	0.06
21.10	3.78	3.32	0.08	23.70	3.90	3.44	0.06
21.15	3.78	3.32	0.08	23.75	3.90	3.44	0.06
21.20	3.78	3.32	0.08	23.80	3.90	3.44	0.06
21.25	3.78	3.33	0.08	23.85	3.90	3.44	0.06
21.30	3.79	3.33	0.08	23.90	3.90	3.45	0.06
21.35	3.79	3.33	0.08	23.95	3.91	3.45	0.06
21.40	3.79	3.33	0.08	24.00	**3.91**	**3.45**	0.07
21.45	3.79	3.34	0.08				
21.50	3.80	3.34	0.08				
21.55	3.80	3.34	0.08				
21.60	3.80	3.34	0.08				
21.65	3.80	3.35	0.08				
21.70	3.81	3.35	0.08				
21.75	3.81	3.35	0.08				
21.80	3.81	3.35	0.08				
21.85	3.81	3.36	0.08				
21.90	3.82	3.36	0.08				
21.95	3.82	3.36	0.07				
22.00	3.82	3.36	0.07				
22.05	3.82	3.37	0.07				
22.10	3.83	3.37	0.07				
22.15	3.83	3.37	0.07				
22.20	3.83	3.37	0.07				
22.25	3.83	3.38	0.07				
22.30	3.84	3.38	0.07				
22.35	3.84	3.38	0.07				
22.40	3.84	3.38	0.07				
22.45	3.84	3.38	0.07				
22.50	3.84	3.39	0.07				
22.55	3.85	3.39	0.07				
22.60	3.85	3.39	0.07				
22.65	3.85	3.39	0.07				
22.70	3.85	3.40	0.07				
22.75	3.86	3.40	0.07				
22.80	3.86	3.40	0.07				
22.85	3.86	3.40	0.07				
22.90	3.86	3.40	0.07				
22.95	3.87	3.41	0.07				
23.00	3.87	3.41	0.07				
23.05	3.87	3.41	0.07				
23.10	3.87	3.41	0.07				
23.15	3.87	3.42	0.07				
23.20	3.88	3.42	0.07				
23.25	3.88	3.42	0.07				
23.30	3.88	3.42	0.07				
23.35	3.88	3.42	0.07				

Summary for Subcatchment EDA2 IMP: EDA2 IMP

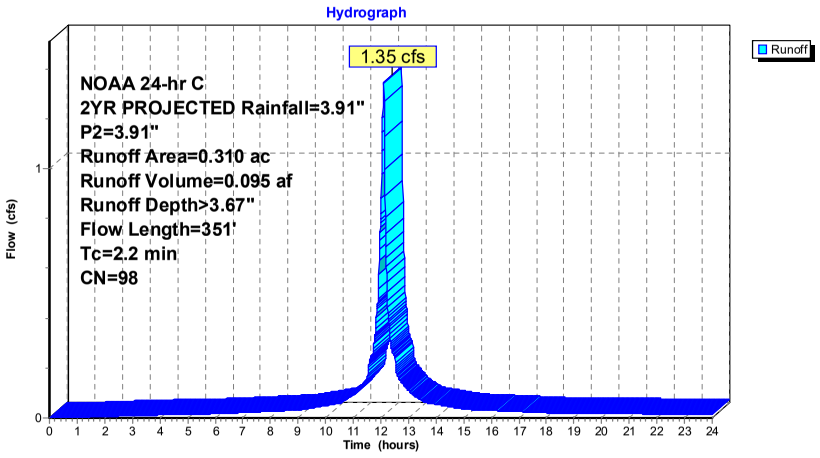
Runoff = 1.35 cfs @ 12.11 hrs, Volume= 0.095 af, Depth> 3.67"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR PROJECTED Rainfall=3.91", P2=3.91"

	Area (ac)	CN	Description
*	0.310	98	Impervious vehicular
	0.310		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	100	0.0180	1.46		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
1.1	251	0.0360	3.85		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
2.2	351	Total			

Subcatchment EDA2 IMP: EDA2 IMP



Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.12	0.02	0.01
0.05	0.00	0.00	0.00	2.65	0.12	0.02	0.01
0.10	0.01	0.00	0.00	2.70	0.12	0.02	0.01
0.15	0.01	0.00	0.00	2.75	0.13	0.02	0.01
0.20	0.01	0.00	0.00	2.80	0.13	0.03	0.01
0.25	0.01	0.00	0.00	2.85	0.13	0.03	0.01
0.30	0.01	0.00	0.00	2.90	0.13	0.03	0.01
0.35	0.02	0.00	0.00	2.95	0.14	0.03	0.01
0.40	0.02	0.00	0.00	3.00	0.14	0.03	0.01
0.45	0.02	0.00	0.00	3.05	0.14	0.03	0.01
0.50	0.02	0.00	0.00	3.10	0.14	0.03	0.01
0.55	0.02	0.00	0.00	3.15	0.15	0.04	0.01
0.60	0.03	0.00	0.00	3.20	0.15	0.04	0.01
0.65	0.03	0.00	0.00	3.25	0.15	0.04	0.01
0.70	0.03	0.00	0.00	3.30	0.15	0.04	0.01
0.75	0.03	0.00	0.00	3.35	0.16	0.04	0.01
0.80	0.03	0.00	0.00	3.40	0.16	0.04	0.01
0.85	0.04	0.00	0.00	3.45	0.16	0.04	0.01
0.90	0.04	0.00	0.00	3.50	0.16	0.05	0.01
0.95	0.04	0.00	0.00	3.55	0.17	0.05	0.01
1.00	0.04	0.00	0.00	3.60	0.17	0.05	0.01
1.05	0.04	0.00	0.00	3.65	0.17	0.05	0.01
1.10	0.05	0.00	0.00	3.70	0.17	0.05	0.01
1.15	0.05	0.00	0.00	3.75	0.18	0.05	0.01
1.20	0.05	0.00	0.00	3.80	0.18	0.06	0.01
1.25	0.05	0.00	0.00	3.85	0.18	0.06	0.01
1.30	0.06	0.00	0.00	3.90	0.19	0.06	0.01
1.35	0.06	0.00	0.00	3.95	0.19	0.06	0.01
1.40	0.06	0.00	0.00	4.00	0.19	0.06	0.01
1.45	0.06	0.00	0.00	4.05	0.19	0.07	0.01
1.50	0.07	0.00	0.00	4.10	0.20	0.07	0.01
1.55	0.07	0.00	0.00	4.15	0.20	0.07	0.01
1.60	0.07	0.00	0.00	4.20	0.20	0.07	0.01
1.65	0.07	0.00	0.00	4.25	0.21	0.07	0.01
1.70	0.07	0.00	0.00	4.30	0.21	0.08	0.01
1.75	0.08	0.01	0.00	4.35	0.21	0.08	0.01
1.80	0.08	0.01	0.00	4.40	0.21	0.08	0.01
1.85	0.08	0.01	0.00	4.45	0.22	0.08	0.01
1.90	0.08	0.01	0.00	4.50	0.22	0.08	0.01
1.95	0.09	0.01	0.00	4.55	0.22	0.09	0.01
2.00	0.09	0.01	0.00	4.60	0.23	0.09	0.01
2.05	0.09	0.01	0.01	4.65	0.23	0.09	0.01
2.10	0.09	0.01	0.01	4.70	0.23	0.09	0.01
2.15	0.10	0.01	0.01	4.75	0.23	0.09	0.01
2.20	0.10	0.01	0.01	4.80	0.24	0.10	0.01
2.25	0.10	0.01	0.01	4.85	0.24	0.10	0.01
2.30	0.10	0.01	0.01	4.90	0.24	0.10	0.01
2.35	0.11	0.02	0.01	4.95	0.25	0.10	0.01
2.40	0.11	0.02	0.01	5.00	0.25	0.10	0.01
2.45	0.11	0.02	0.01	5.05	0.25	0.11	0.01
2.50	0.11	0.02	0.01	5.10	0.25	0.11	0.01
2.55	0.12	0.02	0.01	5.15	0.26	0.11	0.01

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.26	0.11	0.01	7.80	0.45	0.27	0.03
5.25	0.26	0.12	0.01	7.85	0.45	0.28	0.03
5.30	0.27	0.12	0.01	7.90	0.46	0.28	0.03
5.35	0.27	0.12	0.01	7.95	0.46	0.29	0.03
5.40	0.27	0.12	0.01	8.00	0.47	0.29	0.03
5.45	0.28	0.13	0.01	8.05	0.47	0.29	0.03
5.50	0.28	0.13	0.01	8.10	0.48	0.30	0.03
5.55	0.28	0.13	0.02	8.15	0.48	0.30	0.03
5.60	0.28	0.13	0.02	8.20	0.49	0.31	0.03
5.65	0.29	0.14	0.02	8.25	0.49	0.31	0.03
5.70	0.29	0.14	0.02	8.30	0.50	0.32	0.03
5.75	0.29	0.14	0.02	8.35	0.50	0.32	0.03
5.80	0.30	0.14	0.02	8.40	0.51	0.32	0.03
5.85	0.30	0.15	0.02	8.45	0.51	0.33	0.03
5.90	0.30	0.15	0.02	8.50	0.52	0.33	0.03
5.95	0.31	0.15	0.02	8.55	0.52	0.34	0.03
6.00	0.31	0.15	0.02	8.60	0.53	0.34	0.03
6.05	0.31	0.16	0.02	8.65	0.53	0.35	0.03
6.10	0.32	0.16	0.02	8.70	0.54	0.35	0.03
6.15	0.32	0.16	0.02	8.75	0.54	0.36	0.03
6.20	0.32	0.16	0.02	8.80	0.55	0.36	0.03
6.25	0.33	0.17	0.02	8.85	0.55	0.37	0.03
6.30	0.33	0.17	0.02	8.90	0.56	0.37	0.03
6.35	0.33	0.17	0.02	8.95	0.57	0.38	0.03
6.40	0.34	0.18	0.02	9.00	0.57	0.38	0.03
6.45	0.34	0.18	0.02	9.05	0.58	0.39	0.03
6.50	0.34	0.18	0.02	9.10	0.58	0.39	0.03
6.55	0.35	0.18	0.02	9.15	0.59	0.40	0.03
6.60	0.35	0.19	0.02	9.20	0.59	0.40	0.03
6.65	0.35	0.19	0.02	9.25	0.60	0.41	0.04
6.70	0.36	0.19	0.02	9.30	0.61	0.42	0.04
6.75	0.36	0.20	0.02	9.35	0.61	0.42	0.04
6.80	0.37	0.20	0.02	9.40	0.62	0.43	0.04
6.85	0.37	0.20	0.02	9.45	0.63	0.44	0.04
6.90	0.37	0.21	0.02	9.50	0.63	0.44	0.04
6.95	0.38	0.21	0.02	9.55	0.64	0.45	0.04
7.00	0.38	0.21	0.02	9.60	0.65	0.46	0.04
7.05	0.39	0.22	0.02	9.65	0.66	0.46	0.04
7.10	0.39	0.22	0.02	9.70	0.66	0.47	0.04
7.15	0.39	0.22	0.02	9.75	0.67	0.48	0.05
7.20	0.40	0.23	0.02	9.80	0.68	0.48	0.05
7.25	0.40	0.23	0.02	9.85	0.69	0.49	0.05
7.30	0.41	0.23	0.02	9.90	0.70	0.50	0.05
7.35	0.41	0.24	0.02	9.95	0.70	0.51	0.05
7.40	0.41	0.24	0.02	10.00	0.71	0.52	0.05
7.45	0.42	0.25	0.02	10.05	0.72	0.52	0.05
7.50	0.42	0.25	0.02	10.10	0.73	0.53	0.05
7.55	0.43	0.25	0.02	10.15	0.74	0.54	0.05
7.60	0.43	0.26	0.02	10.20	0.75	0.55	0.05
7.65	0.44	0.26	0.02	10.25	0.76	0.56	0.05
7.70	0.44	0.26	0.02	10.30	0.77	0.57	0.05
7.75	0.45	0.27	0.02	10.35	0.78	0.58	0.06

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.79	0.59	0.06	13.00	2.97	2.74	0.11
10.45	0.80	0.59	0.06	13.05	2.99	2.76	0.10
10.50	0.81	0.60	0.06	13.10	3.00	2.77	0.10
10.55	0.82	0.61	0.06	13.15	3.02	2.79	0.09
10.60	0.83	0.62	0.06	13.20	3.03	2.80	0.09
10.65	0.84	0.64	0.07	13.25	3.04	2.81	0.09
10.70	0.85	0.65	0.07	13.30	3.06	2.83	0.08
10.75	0.87	0.66	0.08	13.35	3.07	2.84	0.08
10.80	0.88	0.67	0.08	13.40	3.08	2.85	0.08
10.85	0.89	0.69	0.08	13.45	3.09	2.86	0.07
10.90	0.91	0.70	0.09	13.50	3.10	2.87	0.07
10.95	0.92	0.72	0.09	13.55	3.11	2.88	0.06
11.00	0.94	0.73	0.09	13.60	3.12	2.89	0.06
11.05	0.96	0.75	0.10	13.65	3.13	2.90	0.06
11.10	0.97	0.77	0.10	13.70	3.14	2.91	0.06
11.15	0.99	0.78	0.11	13.75	3.15	2.92	0.06
11.20	1.01	0.80	0.12	13.80	3.16	2.93	0.06
11.25	1.03	0.82	0.13	13.85	3.17	2.94	0.06
11.30	1.06	0.85	0.13	13.90	3.18	2.95	0.06
11.35	1.08	0.87	0.14	13.95	3.19	2.96	0.06
11.40	1.10	0.89	0.14	14.00	3.20	2.96	0.05
11.45	1.13	0.92	0.15	14.05	3.21	2.97	0.05
11.50	1.16	0.94	0.15	14.10	3.21	2.98	0.05
11.55	1.19	0.98	0.20	14.15	3.22	2.99	0.05
11.60	1.23	1.02	0.23	14.20	3.23	3.00	0.05
11.65	1.28	1.06	0.25	14.25	3.24	3.01	0.05
11.70	1.32	1.10	0.25	14.30	3.25	3.01	0.05
11.75	1.37	1.16	0.31	14.35	3.25	3.02	0.05
11.80	1.43	1.21	0.34	14.40	3.26	3.03	0.05
11.85	1.51	1.29	0.42	14.45	3.27	3.04	0.05
11.90	1.59	1.37	0.47	14.50	3.28	3.04	0.05
11.95	1.73	1.50	0.68	14.55	3.28	3.05	0.04
12.00	1.86	1.64	0.80	14.60	3.29	3.06	0.04
12.05	2.09	1.87	1.15	14.65	3.30	3.06	0.04
12.10	2.32	2.09	**1.34**	14.70	3.30	3.07	0.04
12.15	2.40	2.17	**0.89**	14.75	3.31	3.08	0.04
12.20	2.48	2.25	0.61	14.80	3.32	3.08	0.04
12.25	2.54	2.31	0.44	14.85	3.32	3.09	0.04
12.30	2.59	2.36	0.38	14.90	3.33	3.09	0.04
12.35	2.63	2.40	0.31	14.95	3.33	3.10	0.04
12.40	2.68	2.45	0.27	15.00	3.34	3.11	0.04
12.45	2.72	2.48	0.25	15.05	3.34	3.11	0.04
12.50	2.75	2.52	0.25	15.10	3.35	3.12	0.03
12.55	2.78	2.55	0.20	15.15	3.36	3.12	0.03
12.60	2.81	2.57	0.17	15.20	3.36	3.13	0.03
12.65	2.83	2.60	0.16	15.25	3.37	3.13	0.03
12.70	2.85	2.62	0.15	15.30	3.37	3.14	0.03
12.75	2.88	2.64	0.14	15.35	3.38	3.14	0.03
12.80	2.90	2.67	0.14	15.40	3.38	3.15	0.03
12.85	2.92	2.69	0.13	15.45	3.39	3.15	0.03
12.90	2.94	2.70	0.12	15.50	3.39	3.16	0.03
12.95	2.95	2.72	0.12	15.55	3.40	3.16	0.03

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	3.40	3.17	0.03	18.20	3.61	3.38	0.02
15.65	3.41	3.17	0.03	18.25	3.62	3.38	0.02
15.70	3.41	3.18	0.03	18.30	3.62	3.39	0.02
15.75	3.42	3.18	0.03	18.35	3.62	3.39	0.02
15.80	3.42	3.19	0.03	18.40	3.63	3.39	0.02
15.85	3.43	3.19	0.03	18.45	3.63	3.39	0.02
15.90	3.43	3.20	0.03	18.50	3.63	3.40	0.02
15.95	3.44	3.20	0.03	18.55	3.63	3.40	0.02
16.00	3.44	3.21	0.03	18.60	3.64	3.40	0.02
16.05	3.45	3.21	0.03	18.65	3.64	3.41	0.02
16.10	3.45	3.22	0.03	18.70	3.64	3.41	0.02
16.15	3.46	3.22	0.03	18.75	3.65	3.41	0.02
16.20	3.46	3.23	0.03	18.80	3.65	3.42	0.02
16.25	3.46	3.23	0.03	18.85	3.65	3.42	0.02
16.30	3.47	3.24	0.03	18.90	3.66	3.42	0.02
16.35	3.47	3.24	0.03	18.95	3.66	3.42	0.02
16.40	3.48	3.24	0.03	19.00	3.66	3.43	0.02
16.45	3.48	3.25	0.03	19.05	3.66	3.43	0.02
16.50	3.49	3.25	0.03	19.10	3.67	3.43	0.02
16.55	3.49	3.26	0.03	19.15	3.67	3.44	0.02
16.60	3.50	3.26	0.03	19.20	3.67	3.44	0.02
16.65	3.50	3.27	0.03	19.25	3.68	3.44	0.02
16.70	3.50	3.27	0.03	19.30	3.68	3.44	0.02
16.75	3.51	3.27	0.03	19.35	3.68	3.45	0.02
16.80	3.51	3.28	0.03	19.40	3.68	3.45	0.02
16.85	3.52	3.28	0.03	19.45	3.69	3.45	0.02
16.90	3.52	3.29	0.03	19.50	3.69	3.46	0.02
16.95	3.52	3.29	0.03	19.55	3.69	3.46	0.02
17.00	3.53	3.30	0.03	19.60	3.70	3.46	0.02
17.05	3.53	3.30	0.02	19.65	3.70	3.46	0.02
17.10	3.54	3.30	0.02	19.70	3.70	3.47	0.02
17.15	3.54	3.31	0.02	19.75	3.70	3.47	0.02
17.20	3.54	3.31	0.02	19.80	3.71	3.47	0.02
17.25	3.55	3.31	0.02	19.85	3.71	3.48	0.02
17.30	3.55	3.32	0.02	19.90	3.71	3.48	0.02
17.35	3.56	3.32	0.02	19.95	3.72	3.48	0.02
17.40	3.56	3.33	0.02	20.00	3.72	3.48	0.02
17.45	3.56	3.33	0.02	20.05	3.72	3.49	0.02
17.50	3.57	3.33	0.02	20.10	3.72	3.49	0.02
17.55	3.57	3.34	0.02	20.15	3.73	3.49	0.02
17.60	3.57	3.34	0.02	20.20	3.73	3.50	0.02
17.65	3.58	3.34	0.02	20.25	3.73	3.50	0.02
17.70	3.58	3.35	0.02	20.30	3.74	3.50	0.02
17.75	3.58	3.35	0.02	20.35	3.74	3.50	0.02
17.80	3.59	3.35	0.02	20.40	3.74	3.51	0.02
17.85	3.59	3.36	0.02	20.45	3.74	3.51	0.02
17.90	3.59	3.36	0.02	20.50	3.75	3.51	0.02
17.95	3.60	3.36	0.02	20.55	3.75	3.51	0.02
18.00	3.60	3.37	0.02	20.60	3.75	3.52	0.02
18.05	3.60	3.37	0.02	20.65	3.75	3.52	0.02
18.10	3.61	3.37	0.02	20.70	3.76	3.52	0.02
18.15	3.61	3.38	0.02	20.75	3.76	3.52	0.02

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.76	3.53	0.02	23.40	3.88	3.65	0.01
20.85	3.76	3.53	0.02	23.45	3.89	3.65	0.01
20.90	3.77	3.53	0.02	23.50	3.89	3.65	0.01
20.95	3.77	3.54	0.02	23.55	3.89	3.66	0.01
21.00	3.77	3.54	0.02	23.60	3.89	3.66	0.01
21.05	3.77	3.54	0.02	23.65	3.89	3.66	0.01
21.10	3.78	3.54	0.02	23.70	3.90	3.66	0.01
21.15	3.78	3.55	0.02	23.75	3.90	3.66	0.01
21.20	3.78	3.55	0.02	23.80	3.90	3.67	0.01
21.25	3.78	3.55	0.02	23.85	3.90	3.67	0.01
21.30	3.79	3.55	0.02	23.90	3.90	3.67	0.01
21.35	3.79	3.56	0.02	23.95	3.91	3.67	0.01
21.40	3.79	3.56	0.02	24.00	**3.91**	**3.68**	0.02
21.45	3.79	3.56	0.02				
21.50	3.80	3.56	0.02				
21.55	3.80	3.57	0.02				
21.60	3.80	3.57	0.02				
21.65	3.80	3.57	0.02				
21.70	3.81	3.57	0.02				
21.75	3.81	3.58	0.02				
21.80	3.81	3.58	0.02				
21.85	3.81	3.58	0.02				
21.90	3.82	3.58	0.02				
21.95	3.82	3.58	0.01				
22.00	3.82	3.59	0.01				
22.05	3.82	3.59	0.01				
22.10	3.83	3.59	0.01				
22.15	3.83	3.59	0.01				
22.20	3.83	3.60	0.01				
22.25	3.83	3.60	0.01				
22.30	3.84	3.60	0.01				
22.35	3.84	3.60	0.01				
22.40	3.84	3.61	0.01				
22.45	3.84	3.61	0.01				
22.50	3.84	3.61	0.01				
22.55	3.85	3.61	0.01				
22.60	3.85	3.61	0.01				
22.65	3.85	3.62	0.01				
22.70	3.85	3.62	0.01				
22.75	3.86	3.62	0.01				
22.80	3.86	3.62	0.01				
22.85	3.86	3.63	0.01				
22.90	3.86	3.63	0.01				
22.95	3.87	3.63	0.01				
23.00	3.87	3.63	0.01				
23.05	3.87	3.63	0.01				
23.10	3.87	3.64	0.01				
23.15	3.87	3.64	0.01				
23.20	3.88	3.64	0.01				
23.25	3.88	3.64	0.01				
23.30	3.88	3.65	0.01				
23.35	3.88	3.65	0.01				

Summary for Subcatchment EDA3 IMP: EDA3 IMP

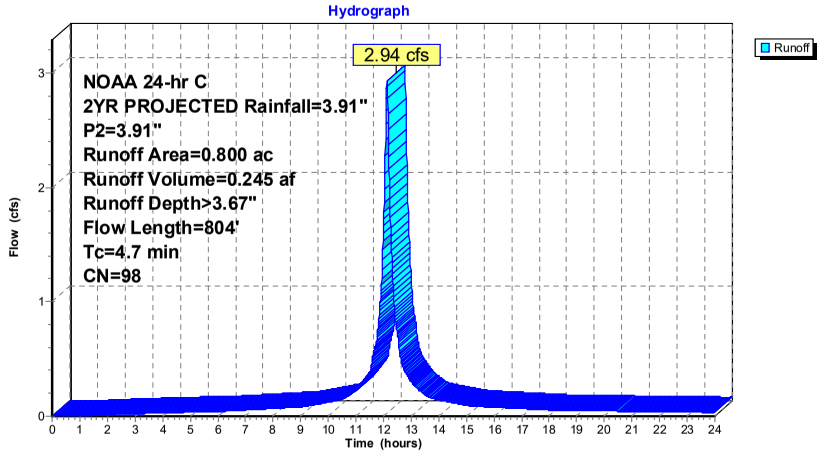
Runoff = 2.94 cfs @ 12.13 hrs, Volume= 0.245 af, Depth> 3.67"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR PROJECTED Rainfall=3.91", P2=3.91"

	Area (ac)	CN	Description
*	0.750	98	Impervious vehicular
*	0.050	98	Impervious non vehicular
	0.800	98	Weighted Average
	0.800		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	100	0.0071	1.00		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.7	172	0.0039	3.90	12.24	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
0.1	27	0.0120	6.84	21.48	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
1.6	439	0.0015	4.45	87.42	**Pipe Channel, RCP_Round 60"** 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.015
4.7	804	Total			

Subcatchment EDA3 IMP: EDA3 IMP



Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.12	0.02	0.02
0.05	0.00	0.00	0.00	2.65	0.12	0.02	0.02
0.10	0.01	0.00	0.00	2.70	0.12	0.02	0.02
0.15	0.01	0.00	0.00	2.75	0.13	0.02	0.02
0.20	0.01	0.00	0.00	2.80	0.13	0.03	0.02
0.25	0.01	0.00	0.00	2.85	0.13	0.03	0.02
0.30	0.01	0.00	0.00	2.90	0.13	0.03	0.02
0.35	0.02	0.00	0.00	2.95	0.14	0.03	0.02
0.40	0.02	0.00	0.00	3.00	0.14	0.03	0.02
0.45	0.02	0.00	0.00	3.05	0.14	0.03	0.02
0.50	0.02	0.00	0.00	3.10	0.14	0.03	0.02
0.55	0.02	0.00	0.00	3.15	0.15	0.04	0.02
0.60	0.03	0.00	0.00	3.20	0.15	0.04	0.02
0.65	0.03	0.00	0.00	3.25	0.15	0.04	0.02
0.70	0.03	0.00	0.00	3.30	0.15	0.04	0.02
0.75	0.03	0.00	0.00	3.35	0.16	0.04	0.02
0.80	0.03	0.00	0.00	3.40	0.16	0.04	0.02
0.85	0.04	0.00	0.00	3.45	0.16	0.04	0.03
0.90	0.04	0.00	0.00	3.50	0.16	0.05	0.03
0.95	0.04	0.00	0.00	3.55	0.17	0.05	0.03
1.00	0.04	0.00	0.00	3.60	0.17	0.05	0.03
1.05	0.04	0.00	0.00	3.65	0.17	0.05	0.03
1.10	0.05	0.00	0.00	3.70	0.17	0.05	0.03
1.15	0.05	0.00	0.00	3.75	0.18	0.05	0.03
1.20	0.05	0.00	0.00	3.80	0.18	0.06	0.03
1.25	0.05	0.00	0.00	3.85	0.18	0.06	0.03
1.30	0.06	0.00	0.00	3.90	0.19	0.06	0.03
1.35	0.06	0.00	0.00	3.95	0.19	0.06	0.03
1.40	0.06	0.00	0.00	4.00	0.19	0.06	0.03
1.45	0.06	0.00	0.01	4.05	0.19	0.07	0.03
1.50	0.07	0.00	0.01	4.10	0.20	0.07	0.03
1.55	0.07	0.00	0.01	4.15	0.20	0.07	0.03
1.60	0.07	0.00	0.01	4.20	0.20	0.07	0.03
1.65	0.07	0.00	0.01	4.25	0.21	0.07	0.03
1.70	0.07	0.00	0.01	4.30	0.21	0.08	0.03
1.75	0.08	0.01	0.01	4.35	0.21	0.08	0.03
1.80	0.08	0.01	0.01	4.40	0.21	0.08	0.03
1.85	0.08	0.01	0.01	4.45	0.22	0.08	0.03
1.90	0.08	0.01	0.01	4.50	0.22	0.08	0.03
1.95	0.09	0.01	0.01	4.55	0.22	0.09	0.03
2.00	0.09	0.01	0.01	4.60	0.23	0.09	0.03
2.05	0.09	0.01	0.01	4.65	0.23	0.09	0.03
2.10	0.09	0.01	0.01	4.70	0.23	0.09	0.03
2.15	0.10	0.01	0.01	4.75	0.23	0.09	0.03
2.20	0.10	0.01	0.01	4.80	0.24	0.10	0.03
2.25	0.10	0.01	0.01	4.85	0.24	0.10	0.03
2.30	0.10	0.01	0.02	4.90	0.24	0.10	0.03
2.35	0.11	0.02	0.02	4.95	0.25	0.10	0.04
2.40	0.11	0.02	0.02	5.00	0.25	0.10	0.04
2.45	0.11	0.02	0.02	5.05	0.25	0.11	0.04
2.50	0.11	0.02	0.02	5.10	0.25	0.11	0.04
2.55	0.12	0.02	0.02	5.15	0.26	0.11	0.04

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.26	0.11	0.04	7.80	0.45	0.27	0.06
5.25	0.26	0.12	0.04	7.85	0.45	0.28	0.06
5.30	0.27	0.12	0.04	7.90	0.46	0.28	0.07
5.35	0.27	0.12	0.04	7.95	0.46	0.29	0.07
5.40	0.27	0.12	0.04	8.00	0.47	0.29	0.07
5.45	0.28	0.13	0.04	8.05	0.47	0.29	0.07
5.50	0.28	0.13	0.04	8.10	0.48	0.30	0.07
5.55	0.28	0.13	0.04	8.15	0.48	0.30	0.07
5.60	0.28	0.13	0.04	8.20	0.49	0.31	0.07
5.65	0.29	0.14	0.04	8.25	0.49	0.31	0.07
5.70	0.29	0.14	0.04	8.30	0.50	0.32	0.07
5.75	0.29	0.14	0.04	8.35	0.50	0.32	0.07
5.80	0.30	0.14	0.04	8.40	0.51	0.32	0.07
5.85	0.30	0.15	0.04	8.45	0.51	0.33	0.07
5.90	0.30	0.15	0.04	8.50	0.52	0.33	0.07
5.95	0.31	0.15	0.04	8.55	0.52	0.34	0.07
6.00	0.31	0.15	0.04	8.60	0.53	0.34	0.08
6.05	0.31	0.16	0.04	8.65	0.53	0.35	0.08
6.10	0.32	0.16	0.04	8.70	0.54	0.35	0.08
6.15	0.32	0.16	0.04	8.75	0.54	0.36	0.08
6.20	0.32	0.16	0.04	8.80	0.55	0.36	0.08
6.25	0.33	0.17	0.04	8.85	0.55	0.37	0.08
6.30	0.33	0.17	0.04	8.90	0.56	0.37	0.08
6.35	0.33	0.17	0.04	8.95	0.57	0.38	0.08
6.40	0.34	0.18	0.05	9.00	0.57	0.38	0.08
6.45	0.34	0.18	0.05	9.05	0.58	0.39	0.08
6.50	0.34	0.18	0.05	9.10	0.58	0.39	0.08
6.55	0.35	0.18	0.05	9.15	0.59	0.40	0.09
6.60	0.35	0.19	0.05	9.20	0.59	0.40	0.09
6.65	0.35	0.19	0.05	9.25	0.60	0.41	0.09
6.70	0.36	0.19	0.05	9.30	0.61	0.42	0.09
6.75	0.36	0.20	0.05	9.35	0.61	0.42	0.09
6.80	0.37	0.20	0.05	9.40	0.62	0.43	0.10
6.85	0.37	0.20	0.05	9.45	0.63	0.44	0.10
6.90	0.37	0.21	0.05	9.50	0.63	0.44	0.10
6.95	0.38	0.21	0.05	9.55	0.64	0.45	0.10
7.00	0.38	0.21	0.05	9.60	0.65	0.46	0.11
7.05	0.39	0.22	0.05	9.65	0.66	0.46	0.11
7.10	0.39	0.22	0.05	9.70	0.66	0.47	0.11
7.15	0.39	0.22	0.06	9.75	0.67	0.48	0.11
7.20	0.40	0.23	0.06	9.80	0.68	0.48	0.12
7.25	0.40	0.23	0.06	9.85	0.69	0.49	0.12
7.30	0.41	0.23	0.06	9.90	0.70	0.50	0.12
7.35	0.41	0.24	0.06	9.95	0.70	0.51	0.12
7.40	0.41	0.24	0.06	10.00	0.71	0.52	0.12
7.45	0.42	0.25	0.06	10.05	0.72	0.52	0.13
7.50	0.42	0.25	0.06	10.10	0.73	0.53	0.13
7.55	0.43	0.25	0.06	10.15	0.74	0.54	0.13
7.60	0.43	0.26	0.06	10.20	0.75	0.55	0.13
7.65	0.44	0.26	0.06	10.25	0.76	0.56	0.14
7.70	0.44	0.26	0.06	10.30	0.77	0.57	0.14
7.75	0.45	0.27	0.06	10.35	0.78	0.58	0.14

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.79	0.59	0.14	13.00	2.97	2.74	0.31
10.45	0.80	0.59	0.15	13.05	2.99	2.76	0.29
10.50	0.81	0.60	0.15	13.10	3.00	2.77	0.27
10.55	0.82	0.61	0.15	13.15	3.02	2.79	0.26
10.60	0.83	0.62	0.16	13.20	3.03	2.80	0.25
10.65	0.84	0.64	0.17	13.25	3.04	2.81	0.24
10.70	0.85	0.65	0.18	13.30	3.06	2.83	0.23
10.75	0.87	0.66	0.18	13.35	3.07	2.84	0.22
10.80	0.88	0.67	0.19	13.40	3.08	2.85	0.21
10.85	0.89	0.69	0.20	13.45	3.09	2.86	0.20
10.90	0.91	0.70	0.21	13.50	3.10	2.87	0.19
10.95	0.92	0.72	0.22	13.55	3.11	2.88	0.18
11.00	0.94	0.73	0.23	13.60	3.12	2.89	0.17
11.05	0.96	0.75	0.24	13.65	3.13	2.90	0.16
11.10	0.97	0.77	0.25	13.70	3.14	2.91	0.16
11.15	0.99	0.78	0.27	13.75	3.15	2.92	0.16
11.20	1.01	0.80	0.29	13.80	3.16	2.93	0.15
11.25	1.03	0.82	0.30	13.85	3.17	2.94	0.15
11.30	1.06	0.85	0.32	13.90	3.18	2.95	0.15
11.35	1.08	0.87	0.33	13.95	3.19	2.96	0.15
11.40	1.10	0.89	0.35	14.00	3.20	2.96	0.14
11.45	1.13	0.92	0.37	14.05	3.21	2.97	0.14
11.50	1.16	0.94	0.38	14.10	3.21	2.98	0.14
11.55	1.19	0.98	0.43	14.15	3.22	2.99	0.14
11.60	1.23	1.02	0.51	14.20	3.23	3.00	0.13
11.65	1.28	1.06	0.56	14.25	3.24	3.01	0.13
11.70	1.32	1.10	0.61	14.30	3.25	3.01	0.13
11.75	1.37	1.16	0.67	14.35	3.25	3.02	0.13
11.80	1.43	1.21	0.77	14.40	3.26	3.03	0.12
11.85	1.51	1.29	0.89	14.45	3.27	3.04	0.12
11.90	1.59	1.37	1.05	14.50	3.28	3.04	0.12
11.95	1.73	1.50	1.29	14.55	3.28	3.05	0.12
12.00	1.86	1.64	1.67	14.60	3.29	3.06	0.11
12.05	2.09	1.87	2.13	14.65	3.30	3.06	0.11
12.10	2.32	2.09	**2.78**	14.70	3.30	3.07	0.11
12.15	2.40	2.17	**2.78**	14.75	3.31	3.08	0.11
12.20	2.48	2.25	2.16	14.80	3.32	3.08	0.11
12.25	2.54	2.31	1.73	14.85	3.32	3.09	0.10
12.30	2.59	2.36	1.39	14.90	3.33	3.09	0.10
12.35	2.63	2.40	1.14	14.95	3.33	3.10	0.10
12.40	2.68	2.45	0.92	15.00	3.34	3.11	0.10
12.45	2.72	2.48	0.80	15.05	3.34	3.11	0.09
12.50	2.75	2.52	0.72	15.10	3.35	3.12	0.09
12.55	2.78	2.55	0.64	15.15	3.36	3.12	0.09
12.60	2.81	2.57	0.54	15.20	3.36	3.13	0.09
12.65	2.83	2.60	0.48	15.25	3.37	3.13	0.09
12.70	2.85	2.62	0.43	15.30	3.37	3.14	0.09
12.75	2.88	2.64	0.41	15.35	3.38	3.14	0.09
12.80	2.90	2.67	0.38	15.40	3.38	3.15	0.09
12.85	2.92	2.69	0.36	15.45	3.39	3.15	0.08
12.90	2.94	2.70	0.34	15.50	3.39	3.16	0.08
12.95	2.95	2.72	0.32	15.55	3.40	3.16	0.08

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	3.40	3.17	0.08	18.20	3.61	3.38	0.05
15.65	3.41	3.17	0.08	18.25	3.62	3.38	0.05
15.70	3.41	3.18	0.08	18.30	3.62	3.39	0.05
15.75	3.42	3.18	0.08	18.35	3.62	3.39	0.05
15.80	3.42	3.19	0.08	18.40	3.63	3.39	0.05
15.85	3.43	3.19	0.08	18.45	3.63	3.39	0.05
15.90	3.43	3.20	0.08	18.50	3.63	3.40	0.05
15.95	3.44	3.20	0.08	18.55	3.63	3.40	0.05
16.00	3.44	3.21	0.08	18.60	3.64	3.40	0.05
16.05	3.45	3.21	0.08	18.65	3.64	3.41	0.05
16.10	3.45	3.22	0.08	18.70	3.64	3.41	0.05
16.15	3.46	3.22	0.08	18.75	3.65	3.41	0.05
16.20	3.46	3.23	0.08	18.80	3.65	3.42	0.05
16.25	3.46	3.23	0.07	18.85	3.65	3.42	0.05
16.30	3.47	3.24	0.07	18.90	3.66	3.42	0.05
16.35	3.47	3.24	0.07	18.95	3.66	3.42	0.05
16.40	3.48	3.24	0.07	19.00	3.66	3.43	0.05
16.45	3.48	3.25	0.07	19.05	3.66	3.43	0.05
16.50	3.49	3.25	0.07	19.10	3.67	3.43	0.05
16.55	3.49	3.26	0.07	19.15	3.67	3.44	0.05
16.60	3.50	3.26	0.07	19.20	3.67	3.44	0.05
16.65	3.50	3.27	0.07	19.25	3.68	3.44	0.05
16.70	3.50	3.27	0.07	19.30	3.68	3.44	0.05
16.75	3.51	3.27	0.07	19.35	3.68	3.45	0.05
16.80	3.51	3.28	0.07	19.40	3.68	3.45	0.05
16.85	3.52	3.28	0.07	19.45	3.69	3.45	0.05
16.90	3.52	3.29	0.07	19.50	3.69	3.46	0.05
16.95	3.52	3.29	0.07	19.55	3.69	3.46	0.05
17.00	3.53	3.30	0.07	19.60	3.70	3.46	0.05
17.05	3.53	3.30	0.06	19.65	3.70	3.46	0.05
17.10	3.54	3.30	0.06	19.70	3.70	3.47	0.05
17.15	3.54	3.31	0.06	19.75	3.70	3.47	0.05
17.20	3.54	3.31	0.06	19.80	3.71	3.47	0.05
17.25	3.55	3.31	0.06	19.85	3.71	3.48	0.05
17.30	3.55	3.32	0.06	19.90	3.71	3.48	0.05
17.35	3.56	3.32	0.06	19.95	3.72	3.48	0.05
17.40	3.56	3.33	0.06	20.00	3.72	3.48	0.04
17.45	3.56	3.33	0.06	20.05	3.72	3.49	0.04
17.50	3.57	3.33	0.06	20.10	3.72	3.49	0.04
17.55	3.57	3.34	0.06	20.15	3.73	3.49	0.04
17.60	3.57	3.34	0.06	20.20	3.73	3.50	0.04
17.65	3.58	3.34	0.06	20.25	3.73	3.50	0.04
17.70	3.58	3.35	0.06	20.30	3.74	3.50	0.04
17.75	3.58	3.35	0.06	20.35	3.74	3.50	0.04
17.80	3.59	3.35	0.06	20.40	3.74	3.51	0.04
17.85	3.59	3.36	0.05	20.45	3.74	3.51	0.04
17.90	3.59	3.36	0.05	20.50	3.75	3.51	0.04
17.95	3.60	3.36	0.05	20.55	3.75	3.51	0.04
18.00	3.60	3.37	0.05	20.60	3.75	3.52	0.04
18.05	3.60	3.37	0.05	20.65	3.75	3.52	0.04
18.10	3.61	3.37	0.05	20.70	3.76	3.52	0.04
18.15	3.61	3.38	0.05	20.75	3.76	3.52	0.04

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.76	3.53	0.04	23.40	3.88	3.65	0.03
20.85	3.76	3.53	0.04	23.45	3.89	3.65	0.03
20.90	3.77	3.53	0.04	23.50	3.89	3.65	0.03
20.95	3.77	3.54	0.04	23.55	3.89	3.66	0.03
21.00	3.77	3.54	0.04	23.60	3.89	3.66	0.03
21.05	3.77	3.54	0.04	23.65	3.89	3.66	0.03
21.10	3.78	3.54	0.04	23.70	3.90	3.66	0.03
21.15	3.78	3.55	0.04	23.75	3.90	3.66	0.03
21.20	3.78	3.55	0.04	23.80	3.90	3.67	0.03
21.25	3.78	3.55	0.04	23.85	3.90	3.67	0.03
21.30	3.79	3.55	0.04	23.90	3.90	3.67	0.03
21.35	3.79	3.56	0.04	23.95	3.91	3.67	0.03
21.40	3.79	3.56	0.04	24.00	**3.91**	**3.68**	0.04
21.45	3.79	3.56	0.04				
21.50	3.80	3.56	0.04				
21.55	3.80	3.57	0.04				
21.60	3.80	3.57	0.04				
21.65	3.80	3.57	0.04				
21.70	3.81	3.57	0.04				
21.75	3.81	3.58	0.04				
21.80	3.81	3.58	0.04				
21.85	3.81	3.58	0.04				
21.90	3.82	3.58	0.04				
21.95	3.82	3.58	0.04				
22.00	3.82	3.59	0.04				
22.05	3.82	3.59	0.04				
22.10	3.83	3.59	0.04				
22.15	3.83	3.59	0.04				
22.20	3.83	3.60	0.04				
22.25	3.83	3.60	0.04				
22.30	3.84	3.60	0.04				
22.35	3.84	3.60	0.04				
22.40	3.84	3.61	0.04				
22.45	3.84	3.61	0.04				
22.50	3.84	3.61	0.04				
22.55	3.85	3.61	0.04				
22.60	3.85	3.61	0.04				
22.65	3.85	3.62	0.04				
22.70	3.85	3.62	0.04				
22.75	3.86	3.62	0.04				
22.80	3.86	3.62	0.04				
22.85	3.86	3.63	0.04				
22.90	3.86	3.63	0.04				
22.95	3.87	3.63	0.04				
23.00	3.87	3.63	0.04				
23.05	3.87	3.63	0.04				
23.10	3.87	3.64	0.04				
23.15	3.87	3.64	0.04				
23.20	3.88	3.64	0.03				
23.25	3.88	3.64	0.03				
23.30	3.88	3.65	0.03				
23.35	3.88	3.65	0.03				

Summary for Subcatchment EDA3 PERV: EDA3 PERV

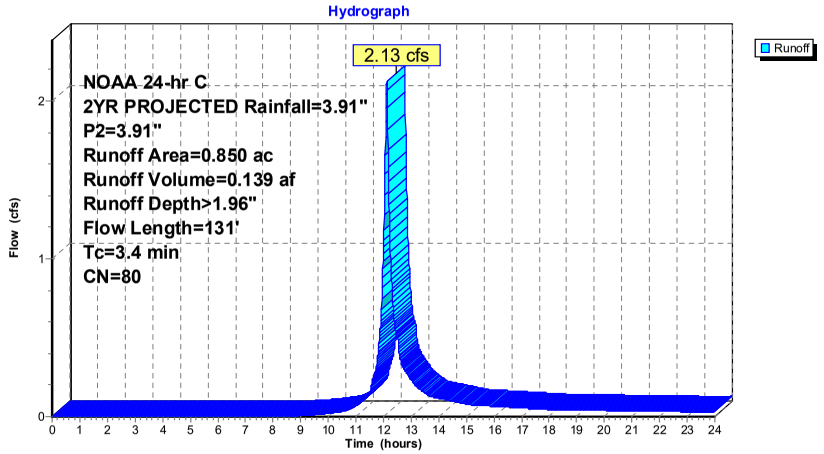
Runoff = 2.13 cfs @ 12.12 hrs, Volume= 0.139 af, Depth> 1.96"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR PROJECTED Rainfall=3.91", P2=3.91"

Area (ac)	CN	Description
0.850	80	>75% Grass cover, Good, HSG D
0.850		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.7	23	0.0200	0.14		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.1	42	0.0150	5.59	6.86	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
3.4	131	Total			

Subcatchment EDA3 PERV: EDA3 PERV



Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.12	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.12	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.12	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.13	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.13	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.13	0.00	0.00
0.30	0.01	0.00	0.00	2.90	0.13	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.14	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.14	0.00	0.00
0.45	0.02	0.00	0.00	3.05	0.14	0.00	0.00
0.50	0.02	0.00	0.00	3.10	0.14	0.00	0.00
0.55	0.02	0.00	0.00	3.15	0.15	0.00	0.00
0.60	0.03	0.00	0.00	3.20	0.15	0.00	0.00
0.65	0.03	0.00	0.00	3.25	0.15	0.00	0.00
0.70	0.03	0.00	0.00	3.30	0.15	0.00	0.00
0.75	0.03	0.00	0.00	3.35	0.16	0.00	0.00
0.80	0.03	0.00	0.00	3.40	0.16	0.00	0.00
0.85	0.04	0.00	0.00	3.45	0.16	0.00	0.00
0.90	0.04	0.00	0.00	3.50	0.16	0.00	0.00
0.95	0.04	0.00	0.00	3.55	0.17	0.00	0.00
1.00	0.04	0.00	0.00	3.60	0.17	0.00	0.00
1.05	0.04	0.00	0.00	3.65	0.17	0.00	0.00
1.10	0.05	0.00	0.00	3.70	0.17	0.00	0.00
1.15	0.05	0.00	0.00	3.75	0.18	0.00	0.00
1.20	0.05	0.00	0.00	3.80	0.18	0.00	0.00
1.25	0.05	0.00	0.00	3.85	0.18	0.00	0.00
1.30	0.06	0.00	0.00	3.90	0.19	0.00	0.00
1.35	0.06	0.00	0.00	3.95	0.19	0.00	0.00
1.40	0.06	0.00	0.00	4.00	0.19	0.00	0.00
1.45	0.06	0.00	0.00	4.05	0.19	0.00	0.00
1.50	0.07	0.00	0.00	4.10	0.20	0.00	0.00
1.55	0.07	0.00	0.00	4.15	0.20	0.00	0.00
1.60	0.07	0.00	0.00	4.20	0.20	0.00	0.00
1.65	0.07	0.00	0.00	4.25	0.21	0.00	0.00
1.70	0.07	0.00	0.00	4.30	0.21	0.00	0.00
1.75	0.08	0.00	0.00	4.35	0.21	0.00	0.00
1.80	0.08	0.00	0.00	4.40	0.21	0.00	0.00
1.85	0.08	0.00	0.00	4.45	0.22	0.00	0.00
1.90	0.08	0.00	0.00	4.50	0.22	0.00	0.00
1.95	0.09	0.00	0.00	4.55	0.22	0.00	0.00
2.00	0.09	0.00	0.00	4.60	0.23	0.00	0.00
2.05	0.09	0.00	0.00	4.65	0.23	0.00	0.00
2.10	0.09	0.00	0.00	4.70	0.23	0.00	0.00
2.15	0.10	0.00	0.00	4.75	0.23	0.00	0.00
2.20	0.10	0.00	0.00	4.80	0.24	0.00	0.00
2.25	0.10	0.00	0.00	4.85	0.24	0.00	0.00
2.30	0.10	0.00	0.00	4.90	0.24	0.00	0.00
2.35	0.11	0.00	0.00	4.95	0.25	0.00	0.00
2.40	0.11	0.00	0.00	5.00	0.25	0.00	0.00
2.45	0.11	0.00	0.00	5.05	0.25	0.00	0.00
2.50	0.11	0.00	0.00	5.10	0.25	0.00	0.00
2.55	0.12	0.00	0.00	5.15	0.26	0.00	0.00

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.26	0.00	0.00	7.80	0.45	0.00	0.00
5.25	0.26	0.00	0.00	7.85	0.45	0.00	0.00
5.30	0.27	0.00	0.00	7.90	0.46	0.00	0.00
5.35	0.27	0.00	0.00	7.95	0.46	0.00	0.00
5.40	0.27	0.00	0.00	8.00	0.47	0.00	0.00
5.45	0.28	0.00	0.00	8.05	0.47	0.00	0.00
5.50	0.28	0.00	0.00	8.10	0.48	0.00	0.00
5.55	0.28	0.00	0.00	8.15	0.48	0.00	0.00
5.60	0.28	0.00	0.00	8.20	0.49	0.00	0.00
5.65	0.29	0.00	0.00	8.25	0.49	0.00	0.00
5.70	0.29	0.00	0.00	8.30	0.50	0.00	0.00
5.75	0.29	0.00	0.00	8.35	0.50	0.00	0.00
5.80	0.30	0.00	0.00	8.40	0.51	0.00	0.00
5.85	0.30	0.00	0.00	8.45	0.51	0.00	0.00
5.90	0.30	0.00	0.00	8.50	0.52	0.00	0.00
5.95	0.31	0.00	0.00	8.55	0.52	0.00	0.00
6.00	0.31	0.00	0.00	8.60	0.53	0.00	0.00
6.05	0.31	0.00	0.00	8.65	0.53	0.00	0.00
6.10	0.32	0.00	0.00	8.70	0.54	0.00	0.00
6.15	0.32	0.00	0.00	8.75	0.54	0.00	0.00
6.20	0.32	0.00	0.00	8.80	0.55	0.00	0.00
6.25	0.33	0.00	0.00	8.85	0.55	0.00	0.00
6.30	0.33	0.00	0.00	8.90	0.56	0.00	0.00
6.35	0.33	0.00	0.00	8.95	0.57	0.00	0.00
6.40	0.34	0.00	0.00	9.00	0.57	0.00	0.00
6.45	0.34	0.00	0.00	9.05	0.58	0.00	0.00
6.50	0.34	0.00	0.00	9.10	0.58	0.00	0.01
6.55	0.35	0.00	0.00	9.15	0.59	0.00	0.01
6.60	0.35	0.00	0.00	9.20	0.59	0.00	0.01
6.65	0.35	0.00	0.00	9.25	0.60	0.00	0.01
6.70	0.36	0.00	0.00	9.30	0.61	0.00	0.01
6.75	0.36	0.00	0.00	9.35	0.61	0.00	0.01
6.80	0.37	0.00	0.00	9.40	0.62	0.01	0.01
6.85	0.37	0.00	0.00	9.45	0.63	0.01	0.01
6.90	0.37	0.00	0.00	9.50	0.63	0.01	0.01
6.95	0.38	0.00	0.00	9.55	0.64	0.01	0.01
7.00	0.38	0.00	0.00	9.60	0.65	0.01	0.01
7.05	0.39	0.00	0.00	9.65	0.66	0.01	0.01
7.10	0.39	0.00	0.00	9.70	0.66	0.01	0.01
7.15	0.39	0.00	0.00	9.75	0.67	0.01	0.02
7.20	0.40	0.00	0.00	9.80	0.68	0.01	0.02
7.25	0.40	0.00	0.00	9.85	0.69	0.01	0.02
7.30	0.41	0.00	0.00	9.90	0.70	0.01	0.02
7.35	0.41	0.00	0.00	9.95	0.70	0.02	0.02
7.40	0.41	0.00	0.00	10.00	0.71	0.02	0.02
7.45	0.42	0.00	0.00	10.05	0.72	0.02	0.02
7.50	0.42	0.00	0.00	10.10	0.73	0.02	0.02
7.55	0.43	0.00	0.00	10.15	0.74	0.02	0.02
7.60	0.43	0.00	0.00	10.20	0.75	0.02	0.02
7.65	0.44	0.00	0.00	10.25	0.76	0.02	0.03
7.70	0.44	0.00	0.00	10.30	0.77	0.03	0.03
7.75	0.45	0.00	0.00	10.35	0.78	0.03	0.03

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.79	0.03	0.03	13.00	2.97	1.23	0.23
10.45	0.80	0.03	0.03	13.05	2.99	1.24	0.22
10.50	0.81	0.03	0.03	13.10	3.00	1.25	0.21
10.55	0.82	0.04	0.04	13.15	3.02	1.26	0.20
10.60	0.83	0.04	0.04	13.20	3.03	1.27	0.19
10.65	0.84	0.04	0.04	13.25	3.04	1.28	0.18
10.70	0.85	0.04	0.04	13.30	3.06	1.29	0.18
10.75	0.87	0.05	0.05	13.35	3.07	1.30	0.17
10.80	0.88	0.05	0.05	13.40	3.08	1.31	0.16
10.85	0.89	0.05	0.06	13.45	3.09	1.32	0.16
10.90	0.91	0.06	0.06	13.50	3.10	1.33	0.15
10.95	0.92	0.06	0.06	13.55	3.11	1.34	0.14
11.00	0.94	0.07	0.07	13.60	3.12	1.34	0.13
11.05	0.96	0.07	0.07	13.65	3.13	1.35	0.13
11.10	0.97	0.08	0.08	13.70	3.14	1.36	0.13
11.15	0.99	0.08	0.09	13.75	3.15	1.37	0.12
11.20	1.01	0.09	0.10	13.80	3.16	1.37	0.12
11.25	1.03	0.09	0.10	13.85	3.17	1.38	0.12
11.30	1.06	0.10	0.11	13.90	3.18	1.39	0.12
11.35	1.08	0.11	0.12	13.95	3.19	1.39	0.12
11.40	1.10	0.12	0.13	14.00	3.20	1.40	0.12
11.45	1.13	0.13	0.14	14.05	3.21	1.41	0.11
11.50	1.16	0.14	0.15	14.10	3.21	1.41	0.11
11.55	1.19	0.15	0.19	14.15	3.22	1.42	0.11
11.60	1.23	0.17	0.23	14.20	3.23	1.43	0.11
11.65	1.28	0.18	0.26	14.25	3.24	1.43	0.11
11.70	1.32	0.20	0.28	14.30	3.25	1.44	0.10
11.75	1.37	0.23	0.33	14.35	3.25	1.44	0.10
11.80	1.43	0.25	0.39	14.40	3.26	1.45	0.10
11.85	1.51	0.29	0.49	14.45	3.27	1.45	0.10
11.90	1.59	0.33	0.59	14.50	3.28	1.46	0.10
11.95	1.73	0.40	0.82	14.55	3.28	1.47	0.10
12.00	1.86	0.48	1.08	14.60	3.29	1.47	0.09
12.05	2.09	0.62	1.53	14.65	3.30	1.48	0.09
12.10	2.32	0.77	**2.04**	14.70	3.30	1.48	0.09
12.15	2.40	0.82	**1.81**	14.75	3.31	1.49	0.09
12.20	2.48	0.87	1.34	14.80	3.32	1.49	0.09
12.25	2.54	0.91	1.04	14.85	3.32	1.50	0.08
12.30	2.59	0.95	0.84	14.90	3.33	1.50	0.08
12.35	2.63	0.98	0.69	14.95	3.33	1.51	0.08
12.40	2.68	1.01	0.59	15.00	3.34	1.51	0.08
12.45	2.72	1.04	0.53	15.05	3.34	1.51	0.08
12.50	2.75	1.07	0.50	15.10	3.35	1.52	0.07
12.55	2.78	1.09	0.44	15.15	3.36	1.52	0.07
12.60	2.81	1.11	0.37	15.20	3.36	1.53	0.07
12.65	2.83	1.12	0.34	15.25	3.37	1.53	0.07
12.70	2.85	1.14	0.32	15.30	3.37	1.53	0.07
12.75	2.88	1.16	0.30	15.35	3.38	1.54	0.07
12.80	2.90	1.17	0.29	15.40	3.38	1.54	0.07
12.85	2.92	1.19	0.27	15.45	3.39	1.55	0.07
12.90	2.94	1.20	0.26	15.50	3.39	1.55	0.07
12.95	2.95	1.22	0.25	15.55	3.40	1.56	0.07

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	3.40	1.56	0.07	18.20	3.61	1.73	0.04
15.65	3.41	1.56	0.07	18.25	3.62	1.73	0.04
15.70	3.41	1.57	0.07	18.30	3.62	1.73	0.04
15.75	3.42	1.57	0.07	18.35	3.62	1.73	0.04
15.80	3.42	1.57	0.07	18.40	3.63	1.74	0.04
15.85	3.43	1.58	0.07	18.45	3.63	1.74	0.04
15.90	3.43	1.58	0.07	18.50	3.63	1.74	0.04
15.95	3.44	1.59	0.07	18.55	3.63	1.74	0.04
16.00	3.44	1.59	0.06	18.60	3.64	1.75	0.04
16.05	3.45	1.59	0.06	18.65	3.64	1.75	0.04
16.10	3.45	1.60	0.06	18.70	3.64	1.75	0.04
16.15	3.46	1.60	0.06	18.75	3.65	1.75	0.04
16.20	3.46	1.60	0.06	18.80	3.65	1.76	0.04
16.25	3.46	1.61	0.06	18.85	3.65	1.76	0.04
16.30	3.47	1.61	0.06	18.90	3.66	1.76	0.04
16.35	3.47	1.62	0.06	18.95	3.66	1.76	0.04
16.40	3.48	1.62	0.06	19.00	3.66	1.77	0.04
16.45	3.48	1.62	0.06	19.05	3.66	1.77	0.04
16.50	3.49	1.63	0.06	19.10	3.67	1.77	0.04
16.55	3.49	1.63	0.06	19.15	3.67	1.77	0.04
16.60	3.50	1.63	0.06	19.20	3.67	1.77	0.04
16.65	3.50	1.64	0.06	19.25	3.68	1.78	0.04
16.70	3.50	1.64	0.06	19.30	3.68	1.78	0.04
16.75	3.51	1.64	0.06	19.35	3.68	1.78	0.04
16.80	3.51	1.65	0.06	19.40	3.68	1.78	0.04
16.85	3.52	1.65	0.06	19.45	3.69	1.79	0.04
16.90	3.52	1.65	0.06	19.50	3.69	1.79	0.04
16.95	3.52	1.66	0.06	19.55	3.69	1.79	0.04
17.00	3.53	1.66	0.06	19.60	3.70	1.79	0.04
17.05	3.53	1.66	0.05	19.65	3.70	1.80	0.04
17.10	3.54	1.67	0.05	19.70	3.70	1.80	0.04
17.15	3.54	1.67	0.05	19.75	3.70	1.80	0.04
17.20	3.54	1.67	0.05	19.80	3.71	1.80	0.04
17.25	3.55	1.67	0.05	19.85	3.71	1.80	0.04
17.30	3.55	1.68	0.05	19.90	3.71	1.81	0.04
17.35	3.56	1.68	0.05	19.95	3.72	1.81	0.04
17.40	3.56	1.68	0.05	20.00	3.72	1.81	0.04
17.45	3.56	1.69	0.05	20.05	3.72	1.81	0.04
17.50	3.57	1.69	0.05	20.10	3.72	1.82	0.04
17.55	3.57	1.69	0.05	20.15	3.73	1.82	0.04
17.60	3.57	1.69	0.05	20.20	3.73	1.82	0.04
17.65	3.58	1.70	0.05	20.25	3.73	1.82	0.04
17.70	3.58	1.70	0.05	20.30	3.74	1.82	0.04
17.75	3.58	1.70	0.05	20.35	3.74	1.83	0.04
17.80	3.59	1.71	0.05	20.40	3.74	1.83	0.04
17.85	3.59	1.71	0.05	20.45	3.74	1.83	0.04
17.90	3.59	1.71	0.05	20.50	3.75	1.83	0.04
17.95	3.60	1.71	0.05	20.55	3.75	1.84	0.04
18.00	3.60	1.72	0.04	20.60	3.75	1.84	0.04
18.05	3.60	1.72	0.04	20.65	3.75	1.84	0.04
18.10	3.61	1.72	0.04	20.70	3.76	1.84	0.04
18.15	3.61	1.72	0.04	20.75	3.76	1.84	0.04

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.76	1.85	0.04	23.40	3.88	1.95	0.03
20.85	3.76	1.85	0.04	23.45	3.89	1.95	0.03
20.90	3.77	1.85	0.04	23.50	3.89	1.95	0.03
20.95	3.77	1.85	0.04	23.55	3.89	1.95	0.03
21.00	3.77	1.85	0.04	23.60	3.89	1.95	0.03
21.05	3.77	1.86	0.04	23.65	3.89	1.96	0.03
21.10	3.78	1.86	0.04	23.70	3.90	1.96	0.03
21.15	3.78	1.86	0.04	23.75	3.90	1.96	0.03
21.20	3.78	1.86	0.04	23.80	3.90	1.96	0.03
21.25	3.78	1.87	0.04	23.85	3.90	1.96	0.03
21.30	3.79	1.87	0.04	23.90	3.90	1.96	0.03
21.35	3.79	1.87	0.04	23.95	3.91	1.97	0.03
21.40	3.79	1.87	0.04	24.00	**3.91**	**1.97**	0.03
21.45	3.79	1.87	0.03				
21.50	3.80	1.88	0.03				
21.55	3.80	1.88	0.03				
21.60	3.80	1.88	0.03				
21.65	3.80	1.88	0.03				
21.70	3.81	1.88	0.03				
21.75	3.81	1.89	0.03				
21.80	3.81	1.89	0.03				
21.85	3.81	1.89	0.03				
21.90	3.82	1.89	0.03				
21.95	3.82	1.89	0.03				
22.00	3.82	1.90	0.03				
22.05	3.82	1.90	0.03				
22.10	3.83	1.90	0.03				
22.15	3.83	1.90	0.03				
22.20	3.83	1.90	0.03				
22.25	3.83	1.90	0.03				
22.30	3.84	1.91	0.03				
22.35	3.84	1.91	0.03				
22.40	3.84	1.91	0.03				
22.45	3.84	1.91	0.03				
22.50	3.84	1.91	0.03				
22.55	3.85	1.92	0.03				
22.60	3.85	1.92	0.03				
22.65	3.85	1.92	0.03				
22.70	3.85	1.92	0.03				
22.75	3.86	1.92	0.03				
22.80	3.86	1.93	0.03				
22.85	3.86	1.93	0.03				
22.90	3.86	1.93	0.03				
22.95	3.87	1.93	0.03				
23.00	3.87	1.93	0.03				
23.05	3.87	1.93	0.03				
23.10	3.87	1.94	0.03				
23.15	3.87	1.94	0.03				
23.20	3.88	1.94	0.03				
23.25	3.88	1.94	0.03				
23.30	3.88	1.94	0.03				
23.35	3.88	1.94	0.03				

Summary for Subcatchment EDA4 IMP: EDA4 IMP

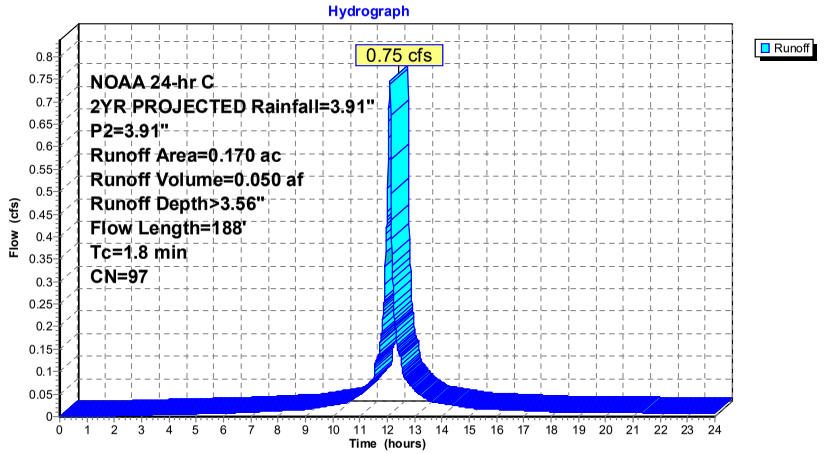
Runoff = 0.75 cfs @ 12.10 hrs, Volume= 0.050 af, Depth> 3.56"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR PROJECTED Rainfall=3.91", P2=3.91"

	Area (ac)	CN	Description
*	0.120	98	Impervious vehicular
	0.050	96	Gravel surface, HSG D
	0.170	97	Weighted Average
	0.050		29.41% Pervious Area
	0.120		70.59% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0160	1.39		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	88	0.0150	2.49		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
1.8	188	Total			

Subcatchment EDA4 IMP: EDA4 IMP



Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.12	0.01	0.00
0.05	0.00	0.00	0.00	2.65	0.12	0.01	0.00
0.10	0.01	0.00	0.00	2.70	0.12	0.01	0.00
0.15	0.01	0.00	0.00	2.75	0.13	0.01	0.00
0.20	0.01	0.00	0.00	2.80	0.13	0.01	0.00
0.25	0.01	0.00	0.00	2.85	0.13	0.01	0.00
0.30	0.01	0.00	0.00	2.90	0.13	0.01	0.00
0.35	0.02	0.00	0.00	2.95	0.14	0.01	0.00
0.40	0.02	0.00	0.00	3.00	0.14	0.02	0.00
0.45	0.02	0.00	0.00	3.05	0.14	0.02	0.00
0.50	0.02	0.00	0.00	3.10	0.14	0.02	0.00
0.55	0.02	0.00	0.00	3.15	0.15	0.02	0.00
0.60	0.03	0.00	0.00	3.20	0.15	0.02	0.00
0.65	0.03	0.00	0.00	3.25	0.15	0.02	0.00
0.70	0.03	0.00	0.00	3.30	0.15	0.02	0.00
0.75	0.03	0.00	0.00	3.35	0.16	0.02	0.00
0.80	0.03	0.00	0.00	3.40	0.16	0.02	0.00
0.85	0.04	0.00	0.00	3.45	0.16	0.02	0.00
0.90	0.04	0.00	0.00	3.50	0.16	0.03	0.00
0.95	0.04	0.00	0.00	3.55	0.17	0.03	0.00
1.00	0.04	0.00	0.00	3.60	0.17	0.03	0.00
1.05	0.04	0.00	0.00	3.65	0.17	0.03	0.00
1.10	0.05	0.00	0.00	3.70	0.17	0.03	0.00
1.15	0.05	0.00	0.00	3.75	0.18	0.03	0.00
1.20	0.05	0.00	0.00	3.80	0.18	0.03	0.00
1.25	0.05	0.00	0.00	3.85	0.18	0.03	0.00
1.30	0.06	0.00	0.00	3.90	0.19	0.04	0.00
1.35	0.06	0.00	0.00	3.95	0.19	0.04	0.00
1.40	0.06	0.00	0.00	4.00	0.19	0.04	0.00
1.45	0.06	0.00	0.00	4.05	0.19	0.04	0.00
1.50	0.07	0.00	0.00	4.10	0.20	0.04	0.00
1.55	0.07	0.00	0.00	4.15	0.20	0.04	0.00
1.60	0.07	0.00	0.00	4.20	0.20	0.04	0.01
1.65	0.07	0.00	0.00	4.25	0.21	0.05	0.01
1.70	0.07	0.00	0.00	4.30	0.21	0.05	0.01
1.75	0.08	0.00	0.00	4.35	0.21	0.05	0.01
1.80	0.08	0.00	0.00	4.40	0.21	0.05	0.01
1.85	0.08	0.00	0.00	4.45	0.22	0.05	0.01
1.90	0.08	0.00	0.00	4.50	0.22	0.05	0.01
1.95	0.09	0.00	0.00	4.55	0.22	0.05	0.01
2.00	0.09	0.00	0.00	4.60	0.23	0.06	0.01
2.05	0.09	0.00	0.00	4.65	0.23	0.06	0.01
2.10	0.09	0.00	0.00	4.70	0.23	0.06	0.01
2.15	0.10	0.00	0.00	4.75	0.23	0.06	0.01
2.20	0.10	0.00	0.00	4.80	0.24	0.06	0.01
2.25	0.10	0.00	0.00	4.85	0.24	0.07	0.01
2.30	0.10	0.00	0.00	4.90	0.24	0.07	0.01
2.35	0.11	0.01	0.00	4.95	0.25	0.07	0.01
2.40	0.11	0.01	0.00	5.00	0.25	0.07	0.01
2.45	0.11	0.01	0.00	5.05	0.25	0.07	0.01
2.50	0.11	0.01	0.00	5.10	0.25	0.07	0.01
2.55	0.12	0.01	0.00	5.15	0.26	0.08	0.01

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.26	0.08	0.01	7.80	0.45	0.22	0.01
5.25	0.26	0.08	0.01	7.85	0.45	0.22	0.01
5.30	0.27	0.08	0.01	7.90	0.46	0.22	0.01
5.35	0.27	0.08	0.01	7.95	0.46	0.23	0.01
5.40	0.27	0.09	0.01	8.00	0.47	0.23	0.01
5.45	0.28	0.09	0.01	8.05	0.47	0.23	0.01
5.50	0.28	0.09	0.01	8.10	0.48	0.24	0.01
5.55	0.28	0.09	0.01	8.15	0.48	0.24	0.01
5.60	0.28	0.09	0.01	8.20	0.49	0.25	0.01
5.65	0.29	0.10	0.01	8.25	0.49	0.25	0.01
5.70	0.29	0.10	0.01	8.30	0.50	0.25	0.01
5.75	0.29	0.10	0.01	8.35	0.50	0.26	0.01
5.80	0.30	0.10	0.01	8.40	0.51	0.26	0.01
5.85	0.30	0.10	0.01	8.45	0.51	0.27	0.01
5.90	0.30	0.11	0.01	8.50	0.52	0.27	0.01
5.95	0.31	0.11	0.01	8.55	0.52	0.28	0.01
6.00	0.31	0.11	0.01	8.60	0.53	0.28	0.01
6.05	0.31	0.11	0.01	8.65	0.53	0.28	0.02
6.10	0.32	0.11	0.01	8.70	0.54	0.29	0.02
6.15	0.32	0.12	0.01	8.75	0.54	0.29	0.02
6.20	0.32	0.12	0.01	8.80	0.55	0.30	0.02
6.25	0.33	0.12	0.01	8.85	0.55	0.30	0.02
6.30	0.33	0.12	0.01	8.90	0.56	0.31	0.02
6.35	0.33	0.13	0.01	8.95	0.57	0.31	0.02
6.40	0.34	0.13	0.01	9.00	0.57	0.32	0.02
6.45	0.34	0.13	0.01	9.05	0.58	0.32	0.02
6.50	0.34	0.13	0.01	9.10	0.58	0.33	0.02
6.55	0.35	0.14	0.01	9.15	0.59	0.33	0.02
6.60	0.35	0.14	0.01	9.20	0.59	0.34	0.02
6.65	0.35	0.14	0.01	9.25	0.60	0.34	0.02
6.70	0.36	0.15	0.01	9.30	0.61	0.35	0.02
6.75	0.36	0.15	0.01	9.35	0.61	0.35	0.02
6.80	0.37	0.15	0.01	9.40	0.62	0.36	0.02
6.85	0.37	0.15	0.01	9.45	0.63	0.37	0.02
6.90	0.37	0.16	0.01	9.50	0.63	0.37	0.02
6.95	0.38	0.16	0.01	9.55	0.64	0.38	0.02
7.00	0.38	0.16	0.01	9.60	0.65	0.38	0.02
7.05	0.39	0.17	0.01	9.65	0.66	0.39	0.02
7.10	0.39	0.17	0.01	9.70	0.66	0.40	0.02
7.15	0.39	0.17	0.01	9.75	0.67	0.40	0.02
7.20	0.40	0.17	0.01	9.80	0.68	0.41	0.02
7.25	0.40	0.18	0.01	9.85	0.69	0.42	0.02
7.30	0.41	0.18	0.01	9.90	0.70	0.43	0.02
7.35	0.41	0.18	0.01	9.95	0.70	0.43	0.03
7.40	0.41	0.19	0.01	10.00	0.71	0.44	0.03
7.45	0.42	0.19	0.01	10.05	0.72	0.45	0.03
7.50	0.42	0.19	0.01	10.10	0.73	0.46	0.03
7.55	0.43	0.20	0.01	10.15	0.74	0.47	0.03
7.60	0.43	0.20	0.01	10.20	0.75	0.47	0.03
7.65	0.44	0.21	0.01	10.25	0.76	0.48	0.03
7.70	0.44	0.21	0.01	10.30	0.77	0.49	0.03
7.75	0.45	0.21	0.01	10.35	0.78	0.50	0.03

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.79	0.51	0.03	13.00	2.97	2.63	0.06
10.45	0.80	0.52	0.03	13.05	2.99	2.65	0.06
10.50	0.81	0.53	0.03	13.10	3.00	2.66	0.05
10.55	0.82	0.54	0.03	13.15	3.02	2.68	0.05
10.60	0.83	0.55	0.03	13.20	3.03	2.69	0.05
10.65	0.84	0.56	0.04	13.25	3.04	2.70	0.05
10.70	0.85	0.57	0.04	13.30	3.06	2.72	0.05
10.75	0.87	0.58	0.04	13.35	3.07	2.73	0.04
10.80	0.88	0.59	0.04	13.40	3.08	2.74	0.04
10.85	0.89	0.61	0.04	13.45	3.09	2.75	0.04
10.90	0.91	0.62	0.05	13.50	3.10	2.76	0.04
10.95	0.92	0.63	0.05	13.55	3.11	2.77	0.03
11.00	0.94	0.65	0.05	13.60	3.12	2.78	0.03
11.05	0.96	0.66	0.05	13.65	3.13	2.79	0.03
11.10	0.97	0.68	0.06	13.70	3.14	2.80	0.03
11.15	0.99	0.70	0.06	13.75	3.15	2.81	0.03
11.20	1.01	0.72	0.06	13.80	3.16	2.82	0.03
11.25	1.03	0.74	0.07	13.85	3.17	2.83	0.03
11.30	1.06	0.76	0.07	13.90	3.18	2.84	0.03
11.35	1.08	0.78	0.07	13.95	3.19	2.85	0.03
11.40	1.10	0.80	0.08	14.00	3.20	2.85	0.03
11.45	1.13	0.83	0.08	14.05	3.21	2.86	0.03
11.50	1.16	0.85	0.08	14.10	3.21	2.87	0.03
11.55	1.19	0.89	0.11	14.15	3.22	2.88	0.03
11.60	1.23	0.93	0.13	14.20	3.23	2.89	0.03
11.65	1.28	0.97	0.13	14.25	3.24	2.89	0.03
11.70	1.32	1.01	0.14	14.30	3.25	2.90	0.03
11.75	1.37	1.06	0.17	14.35	3.25	2.91	0.03
11.80	1.43	1.12	0.18	14.40	3.26	2.92	0.03
11.85	1.51	1.19	0.24	14.45	3.27	2.92	0.03
11.90	1.59	1.27	0.26	14.50	3.28	2.93	0.02
11.95	1.73	1.40	0.39	14.55	3.28	2.94	0.02
12.00	1.86	1.54	0.44	14.60	3.29	2.95	0.02
12.05	2.09	1.76	0.66	14.65	3.30	2.95	0.02
12.10	2.32	1.99	**0.75**	14.70	3.30	2.96	0.02
12.15	2.40	2.06	0.44	14.75	3.31	2.96	0.02
12.20	2.48	2.14	0.30	14.80	3.32	2.97	0.02
12.25	2.54	2.20	0.22	14.85	3.32	2.98	0.02
12.30	2.59	2.25	0.20	14.90	3.33	2.98	0.02
12.35	2.63	2.30	0.16	14.95	3.33	2.99	0.02
12.40	2.68	2.34	0.14	15.00	3.34	2.99	0.02
12.45	2.72	2.38	0.14	15.05	3.34	3.00	0.02
12.50	2.75	2.42	0.13	15.10	3.35	3.01	0.02
12.55	2.78	2.44	0.10	15.15	3.36	3.01	0.02
12.60	2.81	2.47	0.09	15.20	3.36	3.02	0.02
12.65	2.83	2.49	0.08	15.25	3.37	3.02	0.02
12.70	2.85	2.51	0.08	15.30	3.37	3.03	0.02
12.75	2.88	2.53	0.08	15.35	3.38	3.03	0.02
12.80	2.90	2.56	0.07	15.40	3.38	3.04	0.02
12.85	2.92	2.58	0.07	15.45	3.39	3.04	0.02
12.90	2.94	2.60	0.07	15.50	3.39	3.05	0.02
12.95	2.95	2.61	0.06	15.55	3.40	3.05	0.02

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	3.40	3.06	0.02	18.20	3.61	3.27	0.01
15.65	3.41	3.06	0.02	18.25	3.62	3.27	0.01
15.70	3.41	3.07	0.02	18.30	3.62	3.27	0.01
15.75	3.42	3.07	0.02	18.35	3.62	3.28	0.01
15.80	3.42	3.08	0.02	18.40	3.63	3.28	0.01
15.85	3.43	3.08	0.02	18.45	3.63	3.28	0.01
15.90	3.43	3.09	0.02	18.50	3.63	3.28	0.01
15.95	3.44	3.09	0.02	18.55	3.63	3.29	0.01
16.00	3.44	3.10	0.02	18.60	3.64	3.29	0.01
16.05	3.45	3.10	0.02	18.65	3.64	3.29	0.01
16.10	3.45	3.11	0.02	18.70	3.64	3.30	0.01
16.15	3.46	3.11	0.02	18.75	3.65	3.30	0.01
16.20	3.46	3.11	0.02	18.80	3.65	3.30	0.01
16.25	3.46	3.12	0.02	18.85	3.65	3.31	0.01
16.30	3.47	3.12	0.02	18.90	3.66	3.31	0.01
16.35	3.47	3.13	0.02	18.95	3.66	3.31	0.01
16.40	3.48	3.13	0.02	19.00	3.66	3.31	0.01
16.45	3.48	3.14	0.02	19.05	3.66	3.32	0.01
16.50	3.49	3.14	0.01	19.10	3.67	3.32	0.01
16.55	3.49	3.15	0.01	19.15	3.67	3.32	0.01
16.60	3.50	3.15	0.01	19.20	3.67	3.33	0.01
16.65	3.50	3.15	0.01	19.25	3.68	3.33	0.01
16.70	3.50	3.16	0.01	19.30	3.68	3.33	0.01
16.75	3.51	3.16	0.01	19.35	3.68	3.34	0.01
16.80	3.51	3.17	0.01	19.40	3.68	3.34	0.01
16.85	3.52	3.17	0.01	19.45	3.69	3.34	0.01
16.90	3.52	3.17	0.01	19.50	3.69	3.34	0.01
16.95	3.52	3.18	0.01	19.55	3.69	3.35	0.01
17.00	3.53	3.18	0.01	19.60	3.70	3.35	0.01
17.05	3.53	3.19	0.01	19.65	3.70	3.35	0.01
17.10	3.54	3.19	0.01	19.70	3.70	3.35	0.01
17.15	3.54	3.19	0.01	19.75	3.70	3.36	0.01
17.20	3.54	3.20	0.01	19.80	3.71	3.36	0.01
17.25	3.55	3.20	0.01	19.85	3.71	3.36	0.01
17.30	3.55	3.21	0.01	19.90	3.71	3.37	0.01
17.35	3.56	3.21	0.01	19.95	3.72	3.37	0.01
17.40	3.56	3.21	0.01	20.00	3.72	3.37	0.01
17.45	3.56	3.22	0.01	20.05	3.72	3.37	0.01
17.50	3.57	3.22	0.01	20.10	3.72	3.38	0.01
17.55	3.57	3.22	0.01	20.15	3.73	3.38	0.01
17.60	3.57	3.23	0.01	20.20	3.73	3.38	0.01
17.65	3.58	3.23	0.01	20.25	3.73	3.39	0.01
17.70	3.58	3.23	0.01	20.30	3.74	3.39	0.01
17.75	3.58	3.24	0.01	20.35	3.74	3.39	0.01
17.80	3.59	3.24	0.01	20.40	3.74	3.39	0.01
17.85	3.59	3.24	0.01	20.45	3.74	3.40	0.01
17.90	3.59	3.25	0.01	20.50	3.75	3.40	0.01
17.95	3.60	3.25	0.01	20.55	3.75	3.40	0.01
18.00	3.60	3.25	0.01	20.60	3.75	3.40	0.01
18.05	3.60	3.26	0.01	20.65	3.75	3.41	0.01
18.10	3.61	3.26	0.01	20.70	3.76	3.41	0.01
18.15	3.61	3.26	0.01	20.75	3.76	3.41	0.01

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.76	3.41	0.01	23.40	3.88	3.54	0.01
20.85	3.76	3.42	0.01	23.45	3.89	3.54	0.01
20.90	3.77	3.42	0.01	23.50	3.89	3.54	0.01
20.95	3.77	3.42	0.01	23.55	3.89	3.54	0.01
21.00	3.77	3.42	0.01	23.60	3.89	3.54	0.01
21.05	3.77	3.43	0.01	23.65	3.89	3.55	0.01
21.10	3.78	3.43	0.01	23.70	3.90	3.55	0.01
21.15	3.78	3.43	0.01	23.75	3.90	3.55	0.01
21.20	3.78	3.43	0.01	23.80	3.90	3.55	0.01
21.25	3.78	3.44	0.01	23.85	3.90	3.55	0.01
21.30	3.79	3.44	0.01	23.90	3.90	3.56	0.01
21.35	3.79	3.44	0.01	23.95	3.91	3.56	0.01
21.40	3.79	3.44	0.01	24.00	**3.91**	**3.56**	0.01
21.45	3.79	3.45	0.01				
21.50	3.80	3.45	0.01				
21.55	3.80	3.45	0.01				
21.60	3.80	3.45	0.01				
21.65	3.80	3.46	0.01				
21.70	3.81	3.46	0.01				
21.75	3.81	3.46	0.01				
21.80	3.81	3.46	0.01				
21.85	3.81	3.47	0.01				
21.90	3.82	3.47	0.01				
21.95	3.82	3.47	0.01				
22.00	3.82	3.47	0.01				
22.05	3.82	3.48	0.01				
22.10	3.83	3.48	0.01				
22.15	3.83	3.48	0.01				
22.20	3.83	3.48	0.01				
22.25	3.83	3.49	0.01				
22.30	3.84	3.49	0.01				
22.35	3.84	3.49	0.01				
22.40	3.84	3.49	0.01				
22.45	3.84	3.49	0.01				
22.50	3.84	3.50	0.01				
22.55	3.85	3.50	0.01				
22.60	3.85	3.50	0.01				
22.65	3.85	3.50	0.01				
22.70	3.85	3.51	0.01				
22.75	3.86	3.51	0.01				
22.80	3.86	3.51	0.01				
22.85	3.86	3.51	0.01				
22.90	3.86	3.51	0.01				
22.95	3.87	3.52	0.01				
23.00	3.87	3.52	0.01				
23.05	3.87	3.52	0.01				
23.10	3.87	3.52	0.01				
23.15	3.87	3.53	0.01				
23.20	3.88	3.53	0.01				
23.25	3.88	3.53	0.01				
23.30	3.88	3.53	0.01				
23.35	3.88	3.53	0.01				

Summary for Subcatchment EDA4 PERV: EDA4 PERV

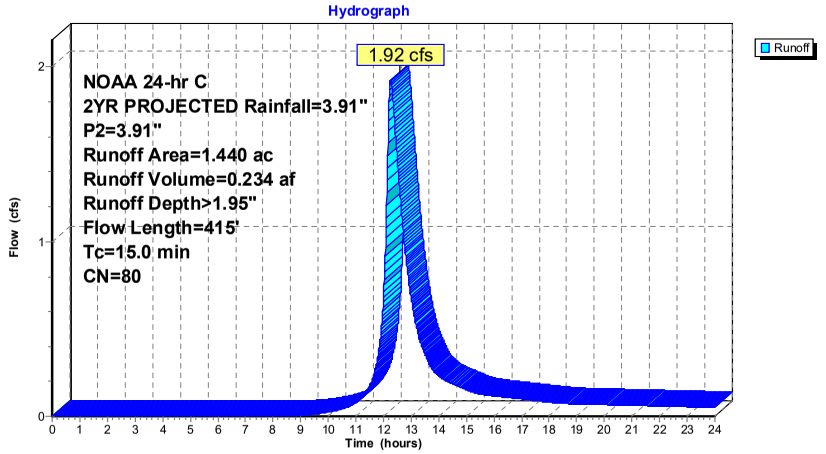
Runoff = 1.92 cfs @ 12.26 hrs, Volume= 0.234 af, Depth> 1.95"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR PROJECTED Rainfall=3.91", P2=3.91"

Area (ac)	CN	Description
1.440	80	>75% Grass cover, Good, HSG D
1.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.8	100	0.0080	0.13		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
1.1	115	0.0140	1.77		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
0.5	100	0.0039	3.22	5.69	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.6	100	0.0020	2.79	8.77	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
15.0	415	Total			

Subcatchment EDA4 PERV: EDA4 PERV



Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.12	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.12	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.12	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.13	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.13	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.13	0.00	0.00
0.30	0.01	0.00	0.00	2.90	0.13	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.14	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.14	0.00	0.00
0.45	0.02	0.00	0.00	3.05	0.14	0.00	0.00
0.50	0.02	0.00	0.00	3.10	0.14	0.00	0.00
0.55	0.02	0.00	0.00	3.15	0.15	0.00	0.00
0.60	0.03	0.00	0.00	3.20	0.15	0.00	0.00
0.65	0.03	0.00	0.00	3.25	0.15	0.00	0.00
0.70	0.03	0.00	0.00	3.30	0.15	0.00	0.00
0.75	0.03	0.00	0.00	3.35	0.16	0.00	0.00
0.80	0.03	0.00	0.00	3.40	0.16	0.00	0.00
0.85	0.04	0.00	0.00	3.45	0.16	0.00	0.00
0.90	0.04	0.00	0.00	3.50	0.16	0.00	0.00
0.95	0.04	0.00	0.00	3.55	0.17	0.00	0.00
1.00	0.04	0.00	0.00	3.60	0.17	0.00	0.00
1.05	0.04	0.00	0.00	3.65	0.17	0.00	0.00
1.10	0.05	0.00	0.00	3.70	0.17	0.00	0.00
1.15	0.05	0.00	0.00	3.75	0.18	0.00	0.00
1.20	0.05	0.00	0.00	3.80	0.18	0.00	0.00
1.25	0.05	0.00	0.00	3.85	0.18	0.00	0.00
1.30	0.06	0.00	0.00	3.90	0.19	0.00	0.00
1.35	0.06	0.00	0.00	3.95	0.19	0.00	0.00
1.40	0.06	0.00	0.00	4.00	0.19	0.00	0.00
1.45	0.06	0.00	0.00	4.05	0.19	0.00	0.00
1.50	0.07	0.00	0.00	4.10	0.20	0.00	0.00
1.55	0.07	0.00	0.00	4.15	0.20	0.00	0.00
1.60	0.07	0.00	0.00	4.20	0.20	0.00	0.00
1.65	0.07	0.00	0.00	4.25	0.21	0.00	0.00
1.70	0.07	0.00	0.00	4.30	0.21	0.00	0.00
1.75	0.08	0.00	0.00	4.35	0.21	0.00	0.00
1.80	0.08	0.00	0.00	4.40	0.21	0.00	0.00
1.85	0.08	0.00	0.00	4.45	0.22	0.00	0.00
1.90	0.08	0.00	0.00	4.50	0.22	0.00	0.00
1.95	0.09	0.00	0.00	4.55	0.22	0.00	0.00
2.00	0.09	0.00	0.00	4.60	0.23	0.00	0.00
2.05	0.09	0.00	0.00	4.65	0.23	0.00	0.00
2.10	0.09	0.00	0.00	4.70	0.23	0.00	0.00
2.15	0.10	0.00	0.00	4.75	0.23	0.00	0.00
2.20	0.10	0.00	0.00	4.80	0.24	0.00	0.00
2.25	0.10	0.00	0.00	4.85	0.24	0.00	0.00
2.30	0.10	0.00	0.00	4.90	0.24	0.00	0.00
2.35	0.11	0.00	0.00	4.95	0.25	0.00	0.00
2.40	0.11	0.00	0.00	5.00	0.25	0.00	0.00
2.45	0.11	0.00	0.00	5.05	0.25	0.00	0.00
2.50	0.11	0.00	0.00	5.10	0.25	0.00	0.00
2.55	0.12	0.00	0.00	5.15	0.26	0.00	0.00

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.26	0.00	0.00	7.80	0.45	0.00	0.00
5.25	0.26	0.00	0.00	7.85	0.45	0.00	0.00
5.30	0.27	0.00	0.00	7.90	0.46	0.00	0.00
5.35	0.27	0.00	0.00	7.95	0.46	0.00	0.00
5.40	0.27	0.00	0.00	8.00	0.47	0.00	0.00
5.45	0.28	0.00	0.00	8.05	0.47	0.00	0.00
5.50	0.28	0.00	0.00	8.10	0.48	0.00	0.00
5.55	0.28	0.00	0.00	8.15	0.48	0.00	0.00
5.60	0.28	0.00	0.00	8.20	0.49	0.00	0.00
5.65	0.29	0.00	0.00	8.25	0.49	0.00	0.00
5.70	0.29	0.00	0.00	8.30	0.50	0.00	0.00
5.75	0.29	0.00	0.00	8.35	0.50	0.00	0.00
5.80	0.30	0.00	0.00	8.40	0.51	0.00	0.00
5.85	0.30	0.00	0.00	8.45	0.51	0.00	0.00
5.90	0.30	0.00	0.00	8.50	0.52	0.00	0.00
5.95	0.31	0.00	0.00	8.55	0.52	0.00	0.00
6.00	0.31	0.00	0.00	8.60	0.53	0.00	0.00
6.05	0.31	0.00	0.00	8.65	0.53	0.00	0.00
6.10	0.32	0.00	0.00	8.70	0.54	0.00	0.00
6.15	0.32	0.00	0.00	8.75	0.54	0.00	0.00
6.20	0.32	0.00	0.00	8.80	0.55	0.00	0.00
6.25	0.33	0.00	0.00	8.85	0.55	0.00	0.00
6.30	0.33	0.00	0.00	8.90	0.56	0.00	0.00
6.35	0.33	0.00	0.00	8.95	0.57	0.00	0.00
6.40	0.34	0.00	0.00	9.00	0.57	0.00	0.00
6.45	0.34	0.00	0.00	9.05	0.58	0.00	0.00
6.50	0.34	0.00	0.00	9.10	0.58	0.00	0.01
6.55	0.35	0.00	0.00	9.15	0.59	0.00	0.01
6.60	0.35	0.00	0.00	9.20	0.59	0.00	0.01
6.65	0.35	0.00	0.00	9.25	0.60	0.00	0.01
6.70	0.36	0.00	0.00	9.30	0.61	0.00	0.01
6.75	0.36	0.00	0.00	9.35	0.61	0.00	0.01
6.80	0.37	0.00	0.00	9.40	0.62	0.01	0.01
6.85	0.37	0.00	0.00	9.45	0.63	0.01	0.01
6.90	0.37	0.00	0.00	9.50	0.63	0.01	0.01
6.95	0.38	0.00	0.00	9.55	0.64	0.01	0.01
7.00	0.38	0.00	0.00	9.60	0.65	0.01	0.01
7.05	0.39	0.00	0.00	9.65	0.66	0.01	0.02
7.10	0.39	0.00	0.00	9.70	0.66	0.01	0.02
7.15	0.39	0.00	0.00	9.75	0.67	0.01	0.02
7.20	0.40	0.00	0.00	9.80	0.68	0.01	0.02
7.25	0.40	0.00	0.00	9.85	0.69	0.01	0.02
7.30	0.41	0.00	0.00	9.90	0.70	0.01	0.02
7.35	0.41	0.00	0.00	9.95	0.70	0.02	0.02
7.40	0.41	0.00	0.00	10.00	0.71	0.02	0.02
7.45	0.42	0.00	0.00	10.05	0.72	0.02	0.03
7.50	0.42	0.00	0.00	10.10	0.73	0.02	0.03
7.55	0.43	0.00	0.00	10.15	0.74	0.02	0.03
7.60	0.43	0.00	0.00	10.20	0.75	0.02	0.03
7.65	0.44	0.00	0.00	10.25	0.76	0.02	0.03
7.70	0.44	0.00	0.00	10.30	0.77	0.03	0.03
7.75	0.45	0.00	0.00	10.35	0.78	0.03	0.04

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.79	0.03	0.04	13.00	2.97	1.23	0.68
10.45	0.80	0.03	0.04	13.05	2.99	1.24	0.63
10.50	0.81	0.03	0.04	13.10	3.00	1.25	0.58
10.55	0.82	0.04	0.05	13.15	3.02	1.26	0.54
10.60	0.83	0.04	0.05	13.20	3.03	1.27	0.51
10.65	0.84	0.04	0.05	13.25	3.04	1.28	0.47
10.70	0.85	0.04	0.05	13.30	3.06	1.29	0.44
10.75	0.87	0.05	0.06	13.35	3.07	1.30	0.42
10.80	0.88	0.05	0.06	13.40	3.08	1.31	0.40
10.85	0.89	0.05	0.07	13.45	3.09	1.32	0.38
10.90	0.91	0.06	0.07	13.50	3.10	1.33	0.36
10.95	0.92	0.06	0.08	13.55	3.11	1.34	0.34
11.00	0.94	0.07	0.08	13.60	3.12	1.34	0.32
11.05	0.96	0.07	0.09	13.65	3.13	1.35	0.30
11.10	0.97	0.08	0.09	13.70	3.14	1.36	0.29
11.15	0.99	0.08	0.10	13.75	3.15	1.37	0.27
11.20	1.01	0.09	0.11	13.80	3.16	1.37	0.26
11.25	1.03	0.09	0.12	13.85	3.17	1.38	0.25
11.30	1.06	0.10	0.13	13.90	3.18	1.39	0.24
11.35	1.08	0.11	0.14	13.95	3.19	1.39	0.24
11.40	1.10	0.12	0.15	14.00	3.20	1.40	0.23
11.45	1.13	0.13	0.16	14.05	3.21	1.41	0.22
11.50	1.16	0.14	0.17	14.10	3.21	1.41	0.22
11.55	1.19	0.15	0.19	14.15	3.22	1.42	0.21
11.60	1.23	0.17	0.21	14.20	3.23	1.43	0.21
11.65	1.28	0.18	0.24	14.25	3.24	1.43	0.20
11.70	1.32	0.20	0.27	14.30	3.25	1.44	0.20
11.75	1.37	0.23	0.31	14.35	3.25	1.44	0.20
11.80	1.43	0.25	0.35	14.40	3.26	1.45	0.19
11.85	1.51	0.29	0.40	14.45	3.27	1.45	0.19
11.90	1.59	0.33	0.47	14.50	3.28	1.46	0.19
11.95	1.73	0.40	0.56	14.55	3.28	1.47	0.18
12.00	1.86	0.48	0.68	14.60	3.29	1.47	0.18
12.05	2.09	0.62	0.87	14.65	3.30	1.48	0.18
12.10	2.32	0.77	1.14	14.70	3.30	1.48	0.17
12.15	2.40	0.82	1.49	14.75	3.31	1.49	0.17
12.20	2.48	0.87	1.80	14.80	3.32	1.49	0.17
12.25	2.54	0.91	**1.92**	14.85	3.32	1.50	0.16
12.30	2.59	0.95	**1.88**	14.90	3.33	1.50	0.16
12.35	2.63	0.98	1.79	14.95	3.33	1.51	0.16
12.40	2.68	1.01	1.69	15.00	3.34	1.51	0.15
12.45	2.72	1.04	1.57	15.05	3.34	1.51	0.15
12.50	2.75	1.07	1.47	15.10	3.35	1.52	0.15
12.55	2.78	1.09	1.37	15.15	3.36	1.52	0.14
12.60	2.81	1.11	1.27	15.20	3.36	1.53	0.14
12.65	2.83	1.12	1.18	15.25	3.37	1.53	0.14
12.70	2.85	1.14	1.08	15.30	3.37	1.53	0.13
12.75	2.88	1.16	0.99	15.35	3.38	1.54	0.13
12.80	2.90	1.17	0.92	15.40	3.38	1.54	0.13
12.85	2.92	1.19	0.85	15.45	3.39	1.55	0.13
12.90	2.94	1.20	0.79	15.50	3.39	1.55	0.13
12.95	2.95	1.22	0.73	15.55	3.40	1.56	0.13

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	3.40	1.56	0.12	18.20	3.61	1.73	0.08
15.65	3.41	1.56	0.12	18.25	3.62	1.73	0.08
15.70	3.41	1.57	0.12	18.30	3.62	1.73	0.08
15.75	3.42	1.57	0.12	18.35	3.62	1.73	0.08
15.80	3.42	1.57	0.12	18.40	3.63	1.74	0.07
15.85	3.43	1.58	0.12	18.45	3.63	1.74	0.07
15.90	3.43	1.58	0.12	18.50	3.63	1.74	0.07
15.95	3.44	1.59	0.12	18.55	3.63	1.74	0.07
16.00	3.44	1.59	0.12	18.60	3.64	1.75	0.07
16.05	3.45	1.59	0.11	18.65	3.64	1.75	0.07
16.10	3.45	1.60	0.11	18.70	3.64	1.75	0.07
16.15	3.46	1.60	0.11	18.75	3.65	1.75	0.07
16.20	3.46	1.60	0.11	18.80	3.65	1.76	0.07
16.25	3.46	1.61	0.11	18.85	3.65	1.76	0.07
16.30	3.47	1.61	0.11	18.90	3.66	1.76	0.07
16.35	3.47	1.62	0.11	18.95	3.66	1.76	0.07
16.40	3.48	1.62	0.11	19.00	3.66	1.77	0.07
16.45	3.48	1.62	0.11	19.05	3.66	1.77	0.07
16.50	3.49	1.63	0.11	19.10	3.67	1.77	0.07
16.55	3.49	1.63	0.11	19.15	3.67	1.77	0.07
16.60	3.50	1.63	0.10	19.20	3.67	1.77	0.07
16.65	3.50	1.64	0.10	19.25	3.68	1.78	0.07
16.70	3.50	1.64	0.10	19.30	3.68	1.78	0.07
16.75	3.51	1.64	0.10	19.35	3.68	1.78	0.07
16.80	3.51	1.65	0.10	19.40	3.68	1.78	0.07
16.85	3.52	1.65	0.10	19.45	3.69	1.79	0.07
16.90	3.52	1.65	0.10	19.50	3.69	1.79	0.07
16.95	3.52	1.66	0.10	19.55	3.69	1.79	0.07
17.00	3.53	1.66	0.10	19.60	3.70	1.79	0.07
17.05	3.53	1.66	0.10	19.65	3.70	1.80	0.07
17.10	3.54	1.67	0.10	19.70	3.70	1.80	0.07
17.15	3.54	1.67	0.10	19.75	3.70	1.80	0.07
17.20	3.54	1.67	0.09	19.80	3.71	1.80	0.07
17.25	3.55	1.67	0.09	19.85	3.71	1.80	0.07
17.30	3.55	1.68	0.09	19.90	3.71	1.81	0.07
17.35	3.56	1.68	0.09	19.95	3.72	1.81	0.07
17.40	3.56	1.68	0.09	20.00	3.72	1.81	0.07
17.45	3.56	1.69	0.09	20.05	3.72	1.81	0.07
17.50	3.57	1.69	0.09	20.10	3.72	1.82	0.07
17.55	3.57	1.69	0.09	20.15	3.73	1.82	0.07
17.60	3.57	1.69	0.09	20.20	3.73	1.82	0.07
17.65	3.58	1.70	0.09	20.25	3.73	1.82	0.07
17.70	3.58	1.70	0.09	20.30	3.74	1.82	0.07
17.75	3.58	1.70	0.09	20.35	3.74	1.83	0.07
17.80	3.59	1.71	0.08	20.40	3.74	1.83	0.06
17.85	3.59	1.71	0.08	20.45	3.74	1.83	0.06
17.90	3.59	1.71	0.08	20.50	3.75	1.83	0.06
17.95	3.60	1.71	0.08	20.55	3.75	1.84	0.06
18.00	3.60	1.72	0.08	20.60	3.75	1.84	0.06
18.05	3.60	1.72	0.08	20.65	3.75	1.84	0.06
18.10	3.61	1.72	0.08	20.70	3.76	1.84	0.06
18.15	3.61	1.72	0.08	20.75	3.76	1.84	0.06

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

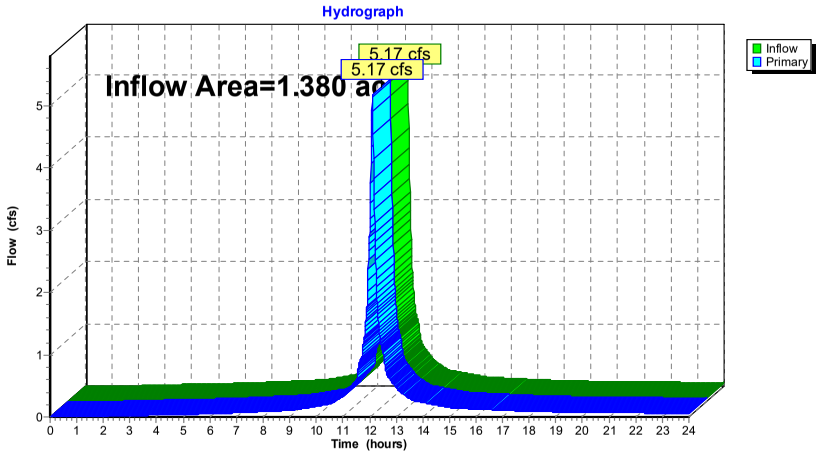
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.76	1.85	0.06	23.40	3.88	1.95	0.05
20.85	3.76	1.85	0.06	23.45	3.89	1.95	0.05
20.90	3.77	1.85	0.06	23.50	3.89	1.95	0.05
20.95	3.77	1.85	0.06	23.55	3.89	1.95	0.05
21.00	3.77	1.85	0.06	23.60	3.89	1.95	0.05
21.05	3.77	1.86	0.06	23.65	3.89	1.96	0.05
21.10	3.78	1.86	0.06	23.70	3.90	1.96	0.05
21.15	3.78	1.86	0.06	23.75	3.90	1.96	0.05
21.20	3.78	1.86	0.06	23.80	3.90	1.96	0.05
21.25	3.78	1.87	0.06	23.85	3.90	1.96	0.05
21.30	3.79	1.87	0.06	23.90	3.90	1.96	0.05
21.35	3.79	1.87	0.06	23.95	3.91	1.97	0.05
21.40	3.79	1.87	0.06	24.00	**3.91**	**1.97**	0.05
21.45	3.79	1.87	0.06				
21.50	3.80	1.88	0.06				
21.55	3.80	1.88	0.06				
21.60	3.80	1.88	0.06				
21.65	3.80	1.88	0.06				
21.70	3.81	1.88	0.06				
21.75	3.81	1.89	0.06				
21.80	3.81	1.89	0.06				
21.85	3.81	1.89	0.06				
21.90	3.82	1.89	0.06				
21.95	3.82	1.89	0.06				
22.00	3.82	1.90	0.06				
22.05	3.82	1.90	0.06				
22.10	3.83	1.90	0.06				
22.15	3.83	1.90	0.06				
22.20	3.83	1.90	0.06				
22.25	3.83	1.90	0.06				
22.30	3.84	1.91	0.06				
22.35	3.84	1.91	0.06				
22.40	3.84	1.91	0.06				
22.45	3.84	1.91	0.06				
22.50	3.84	1.91	0.06				
22.55	3.85	1.92	0.06				
22.60	3.85	1.92	0.06				
22.65	3.85	1.92	0.06				
22.70	3.85	1.92	0.06				
22.75	3.86	1.92	0.05				
22.80	3.86	1.93	0.05				
22.85	3.86	1.93	0.05				
22.90	3.86	1.93	0.05				
22.95	3.87	1.93	0.05				
23.00	3.87	1.93	0.05				
23.05	3.87	1.93	0.05				
23.10	3.87	1.94	0.05				
23.15	3.87	1.94	0.05				
23.20	3.88	1.94	0.05				
23.25	3.88	1.94	0.05				
23.30	3.88	1.94	0.05				
23.35	3.88	1.94	0.05				

Summary for Link E1A: E1A

Inflow Area = 1.380 ac, 54.35% Impervious, Inflow Depth > 3.23" for 2YR PROJECTED event
Inflow = 5.17 cfs @ 12.11 hrs, Volume= 0.372 af
Primary = 5.17 cfs @ 12.11 hrs, Volume= 0.372 af, Atten= 0%, Lag= 0.0 min
Routed to Link EPOI-1 : EPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link E1A: E1A



Hydrograph for Link E1A: E1A

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.01	0.00	0.01
0.05	0.00	0.00	0.00	2.65	0.02	0.00	0.02
0.10	0.00	0.00	0.00	2.70	0.02	0.00	0.02
0.15	0.00	0.00	0.00	2.75	0.02	0.00	0.02
0.20	0.00	0.00	0.00	2.80	0.02	0.00	0.02
0.25	0.00	0.00	0.00	2.85	0.02	0.00	0.02
0.30	0.00	0.00	0.00	2.90	0.02	0.00	0.02
0.35	0.00	0.00	0.00	2.95	0.02	0.00	0.02
0.40	0.00	0.00	0.00	3.00	0.02	0.00	0.02
0.45	0.00	0.00	0.00	3.05	0.02	0.00	0.02
0.50	0.00	0.00	0.00	3.10	0.02	0.00	0.02
0.55	0.00	0.00	0.00	3.15	0.02	0.00	0.02
0.60	0.00	0.00	0.00	3.20	0.02	0.00	0.02
0.65	0.00	0.00	0.00	3.25	0.02	0.00	0.02
0.70	0.00	0.00	0.00	3.30	0.02	0.00	0.02
0.75	0.00	0.00	0.00	3.35	0.02	0.00	0.02
0.80	0.00	0.00	0.00	3.40	0.02	0.00	0.02
0.85	0.00	0.00	0.00	3.45	0.02	0.00	0.02
0.90	0.00	0.00	0.00	3.50	0.03	0.00	0.03
0.95	0.00	0.00	0.00	3.55	0.03	0.00	0.03
1.00	0.00	0.00	0.00	3.60	0.03	0.00	0.03
1.05	0.00	0.00	0.00	3.65	0.03	0.00	0.03
1.10	0.00	0.00	0.00	3.70	0.03	0.00	0.03
1.15	0.00	0.00	0.00	3.75	0.03	0.00	0.03
1.20	0.00	0.00	0.00	3.80	0.03	0.00	0.03
1.25	0.00	0.00	0.00	3.85	0.03	0.00	0.03
1.30	0.00	0.00	0.00	3.90	0.03	0.00	0.03
1.35	0.00	0.00	0.00	3.95	0.03	0.00	0.03
1.40	0.00	0.00	0.00	4.00	0.03	0.00	0.03
1.45	0.00	0.00	0.00	4.05	0.03	0.00	0.03
1.50	0.00	0.00	0.00	4.10	0.03	0.00	0.03
1.55	0.00	0.00	0.00	4.15	0.03	0.00	0.03
1.60	0.00	0.00	0.00	4.20	0.03	0.00	0.03
1.65	0.00	0.00	0.00	4.25	0.03	0.00	0.03
1.70	0.00	0.00	0.00	4.30	0.03	0.00	0.03
1.75	0.00	0.00	0.00	4.35	0.03	0.00	0.03
1.80	0.00	0.00	0.00	4.40	0.03	0.00	0.03
1.85	0.00	0.00	0.00	4.45	0.03	0.00	0.03
1.90	0.01	0.00	0.01	4.50	0.03	0.00	0.03
1.95	0.01	0.00	0.01	4.55	0.04	0.00	0.04
2.00	0.01	0.00	0.01	4.60	0.04	0.00	0.04
2.05	0.01	0.00	0.01	4.65	0.04	0.00	0.04
2.10	0.01	0.00	0.01	4.70	0.04	0.00	0.04
2.15	0.01	0.00	0.01	4.75	0.04	0.00	0.04
2.20	0.01	0.00	0.01	4.80	0.04	0.00	0.04
2.25	0.01	0.00	0.01	4.85	0.04	0.00	0.04
2.30	0.01	0.00	0.01	4.90	0.04	0.00	0.04
2.35	0.01	0.00	0.01	4.95	0.04	0.00	0.04
2.40	0.01	0.00	0.01	5.00	0.04	0.00	0.04
2.45	0.01	0.00	0.01	5.05	0.04	0.00	0.04
2.50	0.01	0.00	0.01	5.10	0.04	0.00	0.04
2.55	0.01	0.00	0.01	5.15	0.04	0.00	0.04

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.04	0.00	0.04	7.80	0.08	0.00	0.08
5.25	0.04	0.00	0.04	7.85	0.08	0.00	0.08
5.30	0.04	0.00	0.04	7.90	0.08	0.00	0.08
5.35	0.04	0.00	0.04	7.95	0.08	0.00	0.08
5.40	0.04	0.00	0.04	8.00	0.08	0.00	0.08
5.45	0.04	0.00	0.04	8.05	0.09	0.00	0.09
5.50	0.04	0.00	0.04	8.10	0.09	0.00	0.09
5.55	0.04	0.00	0.04	8.15	0.09	0.00	0.09
5.60	0.04	0.00	0.04	8.20	0.09	0.00	0.09
5.65	0.05	0.00	0.05	8.25	0.09	0.00	0.09
5.70	0.05	0.00	0.05	8.30	0.09	0.00	0.09
5.75	0.05	0.00	0.05	8.35	0.09	0.00	0.09
5.80	0.05	0.00	0.05	8.40	0.09	0.00	0.09
5.85	0.05	0.00	0.05	8.45	0.09	0.00	0.09
5.90	0.05	0.00	0.05	8.50	0.09	0.00	0.09
5.95	0.05	0.00	0.05	8.55	0.10	0.00	0.10
6.00	0.05	0.00	0.05	8.60	0.10	0.00	0.10
6.05	0.05	0.00	0.05	8.65	0.10	0.00	0.10
6.10	0.05	0.00	0.05	8.70	0.10	0.00	0.10
6.15	0.05	0.00	0.05	8.75	0.10	0.00	0.10
6.20	0.05	0.00	0.05	8.80	0.10	0.00	0.10
6.25	0.05	0.00	0.05	8.85	0.10	0.00	0.10
6.30	0.05	0.00	0.05	8.90	0.10	0.00	0.10
6.35	0.05	0.00	0.05	8.95	0.10	0.00	0.10
6.40	0.05	0.00	0.05	9.00	0.11	0.00	0.11
6.45	0.06	0.00	0.06	9.05	0.11	0.00	0.11
6.50	0.06	0.00	0.06	9.10	0.11	0.00	0.11
6.55	0.06	0.00	0.06	9.15	0.11	0.00	0.11
6.60	0.06	0.00	0.06	9.20	0.12	0.00	0.12
6.65	0.06	0.00	0.06	9.25	0.12	0.00	0.12
6.70	0.06	0.00	0.06	9.30	0.12	0.00	0.12
6.75	0.06	0.00	0.06	9.35	0.13	0.00	0.13
6.80	0.06	0.00	0.06	9.40	0.13	0.00	0.13
6.85	0.06	0.00	0.06	9.45	0.13	0.00	0.13
6.90	0.06	0.00	0.06	9.50	0.14	0.00	0.14
6.95	0.06	0.00	0.06	9.55	0.14	0.00	0.14
7.00	0.07	0.00	0.07	9.60	0.14	0.00	0.14
7.05	0.07	0.00	0.07	9.65	0.15	0.00	0.15
7.10	0.07	0.00	0.07	9.70	0.15	0.00	0.15
7.15	0.07	0.00	0.07	9.75	0.15	0.00	0.15
7.20	0.07	0.00	0.07	9.80	0.16	0.00	0.16
7.25	0.07	0.00	0.07	9.85	0.16	0.00	0.16
7.30	0.07	0.00	0.07	9.90	0.16	0.00	0.16
7.35	0.07	0.00	0.07	9.95	0.17	0.00	0.17
7.40	0.07	0.00	0.07	10.00	0.17	0.00	0.17
7.45	0.07	0.00	0.07	10.05	0.18	0.00	0.18
7.50	0.07	0.00	0.07	10.10	0.18	0.00	0.18
7.55	0.08	0.00	0.08	10.15	0.18	0.00	0.18
7.60	0.08	0.00	0.08	10.20	0.19	0.00	0.19
7.65	0.08	0.00	0.08	10.25	0.19	0.00	0.19
7.70	0.08	0.00	0.08	10.30	0.19	0.00	0.19
7.75	0.08	0.00	0.08	10.35	0.20	0.00	0.20

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.20	0.00	0.20	13.00	0.48	0.00	0.48
10.45	0.21	0.00	0.21	13.05	0.45	0.00	0.45
10.50	0.21	0.00	0.21	13.10	0.42	0.00	0.42
10.55	0.22	0.00	0.22	13.15	0.40	0.00	0.40
10.60	0.23	0.00	0.23	13.20	0.39	0.00	0.39
10.65	0.24	0.00	0.24	13.25	0.37	0.00	0.37
10.70	0.25	0.00	0.25	13.30	0.36	0.00	0.36
10.75	0.27	0.00	0.27	13.35	0.34	0.00	0.34
10.80	0.28	0.00	0.28	13.40	0.33	0.00	0.33
10.85	0.30	0.00	0.30	13.45	0.31	0.00	0.31
10.90	0.31	0.00	0.31	13.50	0.30	0.00	0.30
10.95	0.32	0.00	0.32	13.55	0.28	0.00	0.28
11.00	0.33	0.00	0.33	13.60	0.27	0.00	0.27
11.05	0.36	0.00	0.36	13.65	0.26	0.00	0.26
11.10	0.38	0.00	0.38	13.70	0.26	0.00	0.26
11.15	0.41	0.00	0.41	13.75	0.25	0.00	0.25
11.20	0.43	0.00	0.43	13.80	0.25	0.00	0.25
11.25	0.46	0.00	0.46	13.85	0.24	0.00	0.24
11.30	0.48	0.00	0.48	13.90	0.24	0.00	0.24
11.35	0.51	0.00	0.51	13.95	0.24	0.00	0.24
11.40	0.53	0.00	0.53	14.00	0.23	0.00	0.23
11.45	0.56	0.00	0.56	14.05	0.23	0.00	0.23
11.50	0.58	0.00	0.58	14.10	0.22	0.00	0.22
11.55	0.70	0.00	0.70	14.15	0.22	0.00	0.22
11.60	0.83	0.00	0.83	14.20	0.22	0.00	0.22
11.65	0.91	0.00	0.91	14.25	0.21	0.00	0.21
11.70	0.95	0.00	0.95	14.30	0.21	0.00	0.21
11.75	1.11	0.00	1.11	14.35	0.20	0.00	0.20
11.80	1.26	0.00	1.26	14.40	0.20	0.00	0.20
11.85	1.52	0.00	1.52	14.45	0.20	0.00	0.20
11.90	1.76	0.00	1.76	14.50	0.19	0.00	0.19
11.95	2.38	0.00	2.38	14.55	0.19	0.00	0.19
12.00	2.96	0.00	2.96	14.60	0.19	0.00	0.19
12.05	4.07	0.00	4.07	14.65	0.18	0.00	0.18
12.10	**5.07**	0.00	**5.07**	14.70	0.18	0.00	0.18
12.15	**4.15**	0.00	**4.15**	14.75	0.17	0.00	0.17
12.20	2.96	0.00	2.96	14.80	0.17	0.00	0.17
12.25	2.22	0.00	2.22	14.85	0.17	0.00	0.17
12.30	1.76	0.00	1.76	14.90	0.16	0.00	0.16
12.35	1.44	0.00	1.44	14.95	0.16	0.00	0.16
12.40	1.22	0.00	1.22	15.00	0.15	0.00	0.15
12.45	1.11	0.00	1.11	15.05	0.15	0.00	0.15
12.50	1.06	0.00	1.06	15.10	0.15	0.00	0.15
12.55	0.91	0.00	0.91	15.15	0.15	0.00	0.15
12.60	0.77	0.00	0.77	15.20	0.14	0.00	0.14
12.65	0.69	0.00	0.69	15.25	0.14	0.00	0.14
12.70	0.65	0.00	0.65	15.30	0.14	0.00	0.14
12.75	0.61	0.00	0.61	15.35	0.14	0.00	0.14
12.80	0.59	0.00	0.59	15.40	0.14	0.00	0.14
12.85	0.56	0.00	0.56	15.45	0.14	0.00	0.14
12.90	0.53	0.00	0.53	15.50	0.14	0.00	0.14
12.95	0.50	0.00	0.50	15.55	0.14	0.00	0.14

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.14	0.00	0.14	18.20	0.08	0.00	0.08
15.65	0.13	0.00	0.13	18.25	0.08	0.00	0.08
15.70	0.13	0.00	0.13	18.30	0.08	0.00	0.08
15.75	0.13	0.00	0.13	18.35	0.08	0.00	0.08
15.80	0.13	0.00	0.13	18.40	0.08	0.00	0.08
15.85	0.13	0.00	0.13	18.45	0.08	0.00	0.08
15.90	0.13	0.00	0.13	18.50	0.08	0.00	0.08
15.95	0.13	0.00	0.13	18.55	0.08	0.00	0.08
16.00	0.13	0.00	0.13	18.60	0.08	0.00	0.08
16.05	0.13	0.00	0.13	18.65	0.08	0.00	0.08
16.10	0.13	0.00	0.13	18.70	0.08	0.00	0.08
16.15	0.12	0.00	0.12	18.75	0.08	0.00	0.08
16.20	0.12	0.00	0.12	18.80	0.08	0.00	0.08
16.25	0.12	0.00	0.12	18.85	0.08	0.00	0.08
16.30	0.12	0.00	0.12	18.90	0.08	0.00	0.08
16.35	0.12	0.00	0.12	18.95	0.08	0.00	0.08
16.40	0.12	0.00	0.12	19.00	0.08	0.00	0.08
16.45	0.12	0.00	0.12	19.05	0.08	0.00	0.08
16.50	0.12	0.00	0.12	19.10	0.08	0.00	0.08
16.55	0.12	0.00	0.12	19.15	0.08	0.00	0.08
16.60	0.12	0.00	0.12	19.20	0.08	0.00	0.08
16.65	0.11	0.00	0.11	19.25	0.08	0.00	0.08
16.70	0.11	0.00	0.11	19.30	0.08	0.00	0.08
16.75	0.11	0.00	0.11	19.35	0.08	0.00	0.08
16.80	0.11	0.00	0.11	19.40	0.08	0.00	0.08
16.85	0.11	0.00	0.11	19.45	0.08	0.00	0.08
16.90	0.11	0.00	0.11	19.50	0.08	0.00	0.08
16.95	0.11	0.00	0.11	19.55	0.08	0.00	0.08
17.00	0.11	0.00	0.11	19.60	0.08	0.00	0.08
17.05	0.11	0.00	0.11	19.65	0.08	0.00	0.08
17.10	0.10	0.00	0.10	19.70	0.08	0.00	0.08
17.15	0.10	0.00	0.10	19.75	0.08	0.00	0.08
17.20	0.10	0.00	0.10	19.80	0.08	0.00	0.08
17.25	0.10	0.00	0.10	19.85	0.08	0.00	0.08
17.30	0.10	0.00	0.10	19.90	0.07	0.00	0.07
17.35	0.10	0.00	0.10	19.95	0.07	0.00	0.07
17.40	0.10	0.00	0.10	20.00	0.07	0.00	0.07
17.45	0.10	0.00	0.10	20.05	0.07	0.00	0.07
17.50	0.10	0.00	0.10	20.10	0.07	0.00	0.07
17.55	0.10	0.00	0.10	20.15	0.07	0.00	0.07
17.60	0.09	0.00	0.09	20.20	0.07	0.00	0.07
17.65	0.09	0.00	0.09	20.25	0.07	0.00	0.07
17.70	0.09	0.00	0.09	20.30	0.07	0.00	0.07
17.75	0.09	0.00	0.09	20.35	0.07	0.00	0.07
17.80	0.09	0.00	0.09	20.40	0.07	0.00	0.07
17.85	0.09	0.00	0.09	20.45	0.07	0.00	0.07
17.90	0.09	0.00	0.09	20.50	0.07	0.00	0.07
17.95	0.09	0.00	0.09	20.55	0.07	0.00	0.07
18.00	0.09	0.00	0.09	20.60	0.07	0.00	0.07
18.05	0.09	0.00	0.09	20.65	0.07	0.00	0.07
18.10	0.08	0.00	0.08	20.70	0.07	0.00	0.07
18.15	0.08	0.00	0.08	20.75	0.07	0.00	0.07

Hydrograph for Link E1A: E1A (continued)

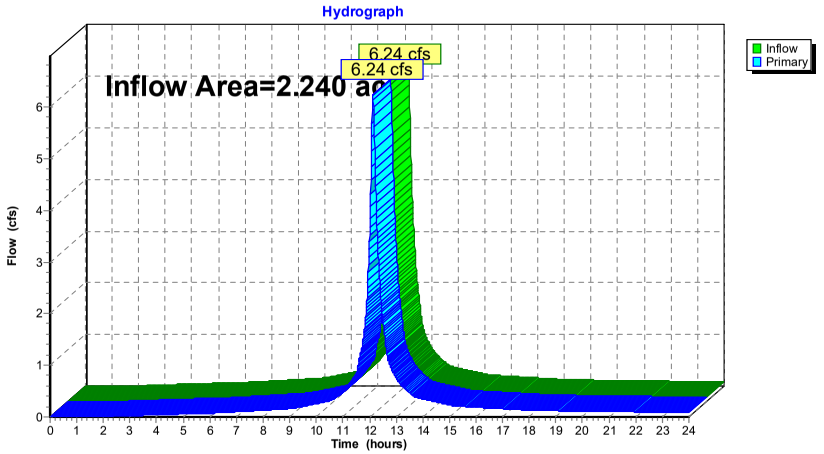
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.07	0.00	0.07	23.40	0.06	0.00	0.06
20.85	0.07	0.00	0.07	23.45	0.06	0.00	0.06
20.90	0.07	0.00	0.07	23.50	0.06	0.00	0.06
20.95	0.07	0.00	0.07	23.55	0.06	0.00	0.06
21.00	0.07	0.00	0.07	23.60	0.06	0.00	0.06
21.05	0.07	0.00	0.07	23.65	0.06	0.00	0.06
21.10	0.07	0.00	0.07	23.70	0.06	0.00	0.06
21.15	0.07	0.00	0.07	23.75	0.05	0.00	0.05
21.20	0.07	0.00	0.07	23.80	0.05	0.00	0.05
21.25	0.07	0.00	0.07	23.85	0.05	0.00	0.05
21.30	0.07	0.00	0.07	23.90	0.05	0.00	0.05
21.35	0.07	0.00	0.07	23.95	0.06	0.00	0.06
21.40	0.07	0.00	0.07	24.00	0.06	0.00	0.06
21.45	0.07	0.00	0.07				
21.50	0.07	0.00	0.07				
21.55	0.07	0.00	0.07				
21.60	0.07	0.00	0.07				
21.65	0.07	0.00	0.07				
21.70	0.07	0.00	0.07				
21.75	0.07	0.00	0.07				
21.80	0.07	0.00	0.07				
21.85	0.06	0.00	0.06				
21.90	0.06	0.00	0.06				
21.95	0.06	0.00	0.06				
22.00	0.06	0.00	0.06				
22.05	0.06	0.00	0.06				
22.10	0.06	0.00	0.06				
22.15	0.06	0.00	0.06				
22.20	0.06	0.00	0.06				
22.25	0.06	0.00	0.06				
22.30	0.06	0.00	0.06				
22.35	0.06	0.00	0.06				
22.40	0.06	0.00	0.06				
22.45	0.06	0.00	0.06				
22.50	0.06	0.00	0.06				
22.55	0.06	0.00	0.06				
22.60	0.06	0.00	0.06				
22.65	0.06	0.00	0.06				
22.70	0.06	0.00	0.06				
22.75	0.06	0.00	0.06				
22.80	0.06	0.00	0.06				
22.85	0.06	0.00	0.06				
22.90	0.06	0.00	0.06				
22.95	0.06	0.00	0.06				
23.00	0.06	0.00	0.06				
23.05	0.06	0.00	0.06				
23.10	0.06	0.00	0.06				
23.15	0.06	0.00	0.06				
23.20	0.06	0.00	0.06				
23.25	0.06	0.00	0.06				
23.30	0.06	0.00	0.06				
23.35	0.06	0.00	0.06				

Summary for Link E1B: E1B

Inflow Area = 2.240 ac, 27.23% Impervious, Inflow Depth > 2.96" for 2YR PROJECTED event
Inflow = 6.24 cfs @ 12.12 hrs, Volume= 0.553 af
Primary = 6.24 cfs @ 12.12 hrs, Volume= 0.553 af, Atten= 0%, Lag= 0.0 min
Routed to Link EPOI-1 : EPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link E1B: E1B



Hydrograph for Link E1B: E1B

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.02	0.00	0.02
0.05	0.00	0.00	0.00	2.65	0.02	0.00	0.02
0.10	0.00	0.00	0.00	2.70	0.02	0.00	0.02
0.15	0.00	0.00	0.00	2.75	0.02	0.00	0.02
0.20	0.00	0.00	0.00	2.80	0.02	0.00	0.02
0.25	0.00	0.00	0.00	2.85	0.02	0.00	0.02
0.30	0.00	0.00	0.00	2.90	0.02	0.00	0.02
0.35	0.00	0.00	0.00	2.95	0.02	0.00	0.02
0.40	0.00	0.00	0.00	3.00	0.02	0.00	0.02
0.45	0.00	0.00	0.00	3.05	0.02	0.00	0.02
0.50	0.00	0.00	0.00	3.10	0.03	0.00	0.03
0.55	0.00	0.00	0.00	3.15	0.03	0.00	0.03
0.60	0.00	0.00	0.00	3.20	0.03	0.00	0.03
0.65	0.00	0.00	0.00	3.25	0.03	0.00	0.03
0.70	0.00	0.00	0.00	3.30	0.03	0.00	0.03
0.75	0.00	0.00	0.00	3.35	0.03	0.00	0.03
0.80	0.00	0.00	0.00	3.40	0.03	0.00	0.03
0.85	0.00	0.00	0.00	3.45	0.03	0.00	0.03
0.90	0.00	0.00	0.00	3.50	0.03	0.00	0.03
0.95	0.00	0.00	0.00	3.55	0.03	0.00	0.03
1.00	0.00	0.00	0.00	3.60	0.03	0.00	0.03
1.05	0.00	0.00	0.00	3.65	0.04	0.00	0.04
1.10	0.00	0.00	0.00	3.70	0.04	0.00	0.04
1.15	0.00	0.00	0.00	3.75	0.04	0.00	0.04
1.20	0.00	0.00	0.00	3.80	0.04	0.00	0.04
1.25	0.00	0.00	0.00	3.85	0.04	0.00	0.04
1.30	0.00	0.00	0.00	3.90	0.04	0.00	0.04
1.35	0.00	0.00	0.00	3.95	0.04	0.00	0.04
1.40	0.00	0.00	0.00	4.00	0.04	0.00	0.04
1.45	0.00	0.00	0.00	4.05	0.04	0.00	0.04
1.50	0.00	0.00	0.00	4.10	0.04	0.00	0.04
1.55	0.00	0.00	0.00	4.15	0.04	0.00	0.04
1.60	0.00	0.00	0.00	4.20	0.04	0.00	0.04
1.65	0.00	0.00	0.00	4.25	0.05	0.00	0.05
1.70	0.00	0.00	0.00	4.30	0.05	0.00	0.05
1.75	0.00	0.00	0.00	4.35	0.05	0.00	0.05
1.80	0.00	0.00	0.00	4.40	0.05	0.00	0.05
1.85	0.00	0.00	0.00	4.45	0.05	0.00	0.05
1.90	0.00	0.00	0.00	4.50	0.05	0.00	0.05
1.95	0.00	0.00	0.00	4.55	0.05	0.00	0.05
2.00	0.01	0.00	0.01	4.60	0.05	0.00	0.05
2.05	0.01	0.00	0.01	4.65	0.05	0.00	0.05
2.10	0.01	0.00	0.01	4.70	0.05	0.00	0.05
2.15	0.01	0.00	0.01	4.75	0.05	0.00	0.05
2.20	0.01	0.00	0.01	4.80	0.05	0.00	0.05
2.25	0.01	0.00	0.01	4.85	0.05	0.00	0.05
2.30	0.01	0.00	0.01	4.90	0.06	0.00	0.06
2.35	0.01	0.00	0.01	4.95	0.06	0.00	0.06
2.40	0.01	0.00	0.01	5.00	0.06	0.00	0.06
2.45	0.01	0.00	0.01	5.05	0.06	0.00	0.06
2.50	0.01	0.00	0.01	5.10	0.06	0.00	0.06
2.55	0.02	0.00	0.02	5.15	0.06	0.00	0.06

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.06	0.00	0.06	7.80	0.12	0.00	0.12
5.25	0.06	0.00	0.06	7.85	0.13	0.00	0.13
5.30	0.06	0.00	0.06	7.90	0.13	0.00	0.13
5.35	0.06	0.00	0.06	7.95	0.13	0.00	0.13
5.40	0.06	0.00	0.06	8.00	0.13	0.00	0.13
5.45	0.06	0.00	0.06	8.05	0.13	0.00	0.13
5.50	0.06	0.00	0.06	8.10	0.13	0.00	0.13
5.55	0.07	0.00	0.07	8.15	0.13	0.00	0.13
5.60	0.07	0.00	0.07	8.20	0.14	0.00	0.14
5.65	0.07	0.00	0.07	8.25	0.14	0.00	0.14
5.70	0.07	0.00	0.07	8.30	0.14	0.00	0.14
5.75	0.07	0.00	0.07	8.35	0.14	0.00	0.14
5.80	0.07	0.00	0.07	8.40	0.14	0.00	0.14
5.85	0.07	0.00	0.07	8.45	0.14	0.00	0.14
5.90	0.07	0.00	0.07	8.50	0.15	0.00	0.15
5.95	0.07	0.00	0.07	8.55	0.15	0.00	0.15
6.00	0.07	0.00	0.07	8.60	0.15	0.00	0.15
6.05	0.07	0.00	0.07	8.65	0.15	0.00	0.15
6.10	0.07	0.00	0.07	8.70	0.15	0.00	0.15
6.15	0.07	0.00	0.07	8.75	0.15	0.00	0.15
6.20	0.08	0.00	0.08	8.80	0.16	0.00	0.16
6.25	0.08	0.00	0.08	8.85	0.16	0.00	0.16
6.30	0.08	0.00	0.08	8.90	0.16	0.00	0.16
6.35	0.08	0.00	0.08	8.95	0.16	0.00	0.16
6.40	0.08	0.00	0.08	9.00	0.16	0.00	0.16
6.45	0.08	0.00	0.08	9.05	0.17	0.00	0.17
6.50	0.08	0.00	0.08	9.10	0.17	0.00	0.17
6.55	0.09	0.00	0.09	9.15	0.17	0.00	0.17
6.60	0.09	0.00	0.09	9.20	0.18	0.00	0.18
6.65	0.09	0.00	0.09	9.25	0.18	0.00	0.18
6.70	0.09	0.00	0.09	9.30	0.19	0.00	0.19
6.75	0.09	0.00	0.09	9.35	0.19	0.00	0.19
6.80	0.09	0.00	0.09	9.40	0.20	0.00	0.20
6.85	0.09	0.00	0.09	9.45	0.20	0.00	0.20
6.90	0.10	0.00	0.10	9.50	0.21	0.00	0.21
6.95	0.10	0.00	0.10	9.55	0.21	0.00	0.21
7.00	0.10	0.00	0.10	9.60	0.22	0.00	0.22
7.05	0.10	0.00	0.10	9.65	0.22	0.00	0.22
7.10	0.10	0.00	0.10	9.70	0.23	0.00	0.23
7.15	0.10	0.00	0.10	9.75	0.23	0.00	0.23
7.20	0.11	0.00	0.11	9.80	0.24	0.00	0.24
7.25	0.11	0.00	0.11	9.85	0.24	0.00	0.24
7.30	0.11	0.00	0.11	9.90	0.25	0.00	0.25
7.35	0.11	0.00	0.11	9.95	0.26	0.00	0.26
7.40	0.11	0.00	0.11	10.00	0.26	0.00	0.26
7.45	0.11	0.00	0.11	10.05	0.27	0.00	0.27
7.50	0.11	0.00	0.11	10.10	0.27	0.00	0.27
7.55	0.12	0.00	0.12	10.15	0.28	0.00	0.28
7.60	0.12	0.00	0.12	10.20	0.28	0.00	0.28
7.65	0.12	0.00	0.12	10.25	0.29	0.00	0.29
7.70	0.12	0.00	0.12	10.30	0.29	0.00	0.29
7.75	0.12	0.00	0.12	10.35	0.30	0.00	0.30

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.30	0.00	0.30	13.00	0.76	0.00	0.76
10.45	0.31	0.00	0.31	13.05	0.72	0.00	0.72
10.50	0.32	0.00	0.32	13.10	0.67	0.00	0.67
10.55	0.33	0.00	0.33	13.15	0.64	0.00	0.64
10.60	0.34	0.00	0.34	13.20	0.61	0.00	0.61
10.65	0.35	0.00	0.35	13.25	0.58	0.00	0.58
10.70	0.37	0.00	0.37	13.30	0.56	0.00	0.56
10.75	0.39	0.00	0.39	13.35	0.54	0.00	0.54
10.80	0.41	0.00	0.41	13.40	0.51	0.00	0.51
10.85	0.43	0.00	0.43	13.45	0.49	0.00	0.49
10.90	0.45	0.00	0.45	13.50	0.47	0.00	0.47
10.95	0.47	0.00	0.47	13.55	0.45	0.00	0.45
11.00	0.49	0.00	0.49	13.60	0.42	0.00	0.42
11.05	0.51	0.00	0.51	13.65	0.41	0.00	0.41
11.10	0.54	0.00	0.54	13.70	0.40	0.00	0.40
11.15	0.58	0.00	0.58	13.75	0.38	0.00	0.38
11.20	0.61	0.00	0.61	13.80	0.38	0.00	0.38
11.25	0.65	0.00	0.65	13.85	0.37	0.00	0.37
11.30	0.68	0.00	0.68	13.90	0.36	0.00	0.36
11.35	0.72	0.00	0.72	13.95	0.36	0.00	0.36
11.40	0.76	0.00	0.76	14.00	0.35	0.00	0.35
11.45	0.79	0.00	0.79	14.05	0.34	0.00	0.34
11.50	0.83	0.00	0.83	14.10	0.34	0.00	0.34
11.55	0.93	0.00	0.93	14.15	0.33	0.00	0.33
11.60	1.09	0.00	1.09	14.20	0.33	0.00	0.33
11.65	1.21	0.00	1.21	14.25	0.32	0.00	0.32
11.70	1.30	0.00	1.30	14.30	0.32	0.00	0.32
11.75	1.45	0.00	1.45	14.35	0.31	0.00	0.31
11.80	1.65	0.00	1.65	14.40	0.30	0.00	0.30
11.85	1.92	0.00	1.92	14.45	0.30	0.00	0.30
11.90	2.24	0.00	2.24	14.50	0.29	0.00	0.29
11.95	2.79	0.00	2.79	14.55	0.29	0.00	0.29
12.00	3.54	0.00	3.54	14.60	0.28	0.00	0.28
12.05	4.59	0.00	4.59	14.65	0.28	0.00	0.28
12.10	**5.93**	0.00	**5.93**	14.70	0.27	0.00	0.27
12.15	**6.00**	0.00	**6.00**	14.75	0.27	0.00	0.27
12.20	4.99	0.00	4.99	14.80	0.26	0.00	0.26
12.25	4.14	0.00	4.14	14.85	0.25	0.00	0.25
12.30	3.46	0.00	3.46	14.90	0.25	0.00	0.25
12.35	2.92	0.00	2.92	14.95	0.24	0.00	0.24
12.40	2.46	0.00	2.46	15.00	0.24	0.00	0.24
12.45	2.13	0.00	2.13	15.05	0.23	0.00	0.23
12.50	1.89	0.00	1.89	15.10	0.23	0.00	0.23
12.55	1.66	0.00	1.66	15.15	0.22	0.00	0.22
12.60	1.41	0.00	1.41	15.20	0.22	0.00	0.22
12.65	1.24	0.00	1.24	15.25	0.21	0.00	0.21
12.70	1.12	0.00	1.12	15.30	0.21	0.00	0.21
12.75	1.03	0.00	1.03	15.35	0.21	0.00	0.21
12.80	0.96	0.00	0.96	15.40	0.21	0.00	0.21
12.85	0.90	0.00	0.90	15.45	0.21	0.00	0.21
12.90	0.85	0.00	0.85	15.50	0.21	0.00	0.21
12.95	0.80	0.00	0.80	15.55	0.20	0.00	0.20

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.20	0.00	0.20	18.20	0.13	0.00	0.13
15.65	0.20	0.00	0.20	18.25	0.12	0.00	0.12
15.70	0.20	0.00	0.20	18.30	0.12	0.00	0.12
15.75	0.20	0.00	0.20	18.35	0.12	0.00	0.12
15.80	0.20	0.00	0.20	18.40	0.12	0.00	0.12
15.85	0.20	0.00	0.20	18.45	0.12	0.00	0.12
15.90	0.19	0.00	0.19	18.50	0.12	0.00	0.12
15.95	0.19	0.00	0.19	18.55	0.12	0.00	0.12
16.00	0.19	0.00	0.19	18.60	0.12	0.00	0.12
16.05	0.19	0.00	0.19	18.65	0.12	0.00	0.12
16.10	0.19	0.00	0.19	18.70	0.12	0.00	0.12
16.15	0.19	0.00	0.19	18.75	0.12	0.00	0.12
16.20	0.18	0.00	0.18	18.80	0.12	0.00	0.12
16.25	0.18	0.00	0.18	18.85	0.12	0.00	0.12
16.30	0.18	0.00	0.18	18.90	0.12	0.00	0.12
16.35	0.18	0.00	0.18	18.95	0.12	0.00	0.12
16.40	0.18	0.00	0.18	19.00	0.12	0.00	0.12
16.45	0.18	0.00	0.18	19.05	0.12	0.00	0.12
16.50	0.18	0.00	0.18	19.10	0.12	0.00	0.12
16.55	0.17	0.00	0.17	19.15	0.12	0.00	0.12
16.60	0.17	0.00	0.17	19.20	0.12	0.00	0.12
16.65	0.17	0.00	0.17	19.25	0.12	0.00	0.12
16.70	0.17	0.00	0.17	19.30	0.12	0.00	0.12
16.75	0.17	0.00	0.17	19.35	0.12	0.00	0.12
16.80	0.17	0.00	0.17	19.40	0.12	0.00	0.12
16.85	0.17	0.00	0.17	19.45	0.11	0.00	0.11
16.90	0.16	0.00	0.16	19.50	0.11	0.00	0.11
16.95	0.16	0.00	0.16	19.55	0.11	0.00	0.11
17.00	0.16	0.00	0.16	19.60	0.11	0.00	0.11
17.05	0.16	0.00	0.16	19.65	0.11	0.00	0.11
17.10	0.16	0.00	0.16	19.70	0.11	0.00	0.11
17.15	0.16	0.00	0.16	19.75	0.11	0.00	0.11
17.20	0.15	0.00	0.15	19.80	0.11	0.00	0.11
17.25	0.15	0.00	0.15	19.85	0.11	0.00	0.11
17.30	0.15	0.00	0.15	19.90	0.11	0.00	0.11
17.35	0.15	0.00	0.15	19.95	0.11	0.00	0.11
17.40	0.15	0.00	0.15	20.00	0.11	0.00	0.11
17.45	0.15	0.00	0.15	20.05	0.11	0.00	0.11
17.50	0.15	0.00	0.15	20.10	0.11	0.00	0.11
17.55	0.14	0.00	0.14	20.15	0.11	0.00	0.11
17.60	0.14	0.00	0.14	20.20	0.11	0.00	0.11
17.65	0.14	0.00	0.14	20.25	0.11	0.00	0.11
17.70	0.14	0.00	0.14	20.30	0.11	0.00	0.11
17.75	0.14	0.00	0.14	20.35	0.11	0.00	0.11
17.80	0.14	0.00	0.14	20.40	0.11	0.00	0.11
17.85	0.13	0.00	0.13	20.45	0.11	0.00	0.11
17.90	0.13	0.00	0.13	20.50	0.11	0.00	0.11
17.95	0.13	0.00	0.13	20.55	0.11	0.00	0.11
18.00	0.13	0.00	0.13	20.60	0.11	0.00	0.11
18.05	0.13	0.00	0.13	20.65	0.11	0.00	0.11
18.10	0.13	0.00	0.13	20.70	0.11	0.00	0.11
18.15	0.13	0.00	0.13	20.75	0.11	0.00	0.11

Hydrograph for Link E1B: E1B (continued)

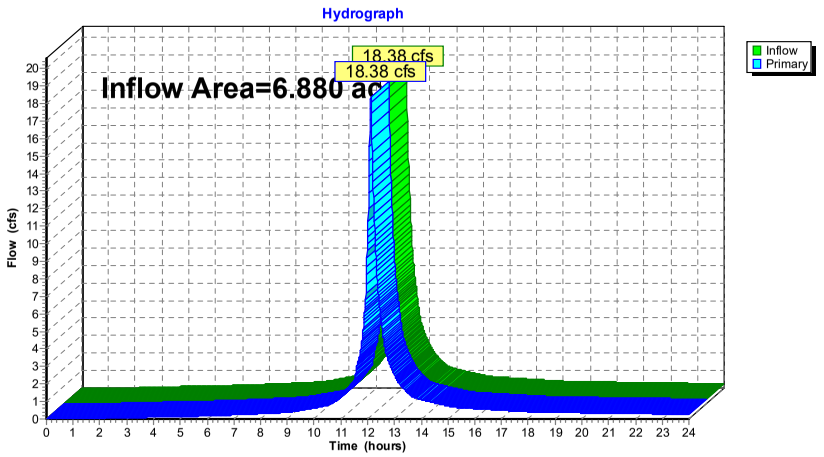
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.10	0.00	0.10	23.40	0.09	0.00	0.09
20.85	0.10	0.00	0.10	23.45	0.08	0.00	0.08
20.90	0.10	0.00	0.10	23.50	0.08	0.00	0.08
20.95	0.10	0.00	0.10	23.55	0.08	0.00	0.08
21.00	0.10	0.00	0.10	23.60	0.08	0.00	0.08
21.05	0.10	0.00	0.10	23.65	0.08	0.00	0.08
21.10	0.10	0.00	0.10	23.70	0.08	0.00	0.08
21.15	0.10	0.00	0.10	23.75	0.08	0.00	0.08
21.20	0.10	0.00	0.10	23.80	0.08	0.00	0.08
21.25	0.10	0.00	0.10	23.85	0.08	0.00	0.08
21.30	0.10	0.00	0.10	23.90	0.08	0.00	0.08
21.35	0.10	0.00	0.10	23.95	0.08	0.00	0.08
21.40	0.10	0.00	0.10	24.00	0.09	0.00	0.09
21.45	0.10	0.00	0.10				
21.50	0.10	0.00	0.10				
21.55	0.10	0.00	0.10				
21.60	0.10	0.00	0.10				
21.65	0.10	0.00	0.10				
21.70	0.10	0.00	0.10				
21.75	0.10	0.00	0.10				
21.80	0.10	0.00	0.10				
21.85	0.10	0.00	0.10				
21.90	0.10	0.00	0.10				
21.95	0.10	0.00	0.10				
22.00	0.10	0.00	0.10				
22.05	0.10	0.00	0.10				
22.10	0.09	0.00	0.09				
22.15	0.09	0.00	0.09				
22.20	0.09	0.00	0.09				
22.25	0.09	0.00	0.09				
22.30	0.09	0.00	0.09				
22.35	0.09	0.00	0.09				
22.40	0.09	0.00	0.09				
22.45	0.09	0.00	0.09				
22.50	0.09	0.00	0.09				
22.55	0.09	0.00	0.09				
22.60	0.09	0.00	0.09				
22.65	0.09	0.00	0.09				
22.70	0.09	0.00	0.09				
22.75	0.09	0.00	0.09				
22.80	0.09	0.00	0.09				
22.85	0.09	0.00	0.09				
22.90	0.09	0.00	0.09				
22.95	0.09	0.00	0.09				
23.00	0.09	0.00	0.09				
23.05	0.09	0.00	0.09				
23.10	0.09	0.00	0.09				
23.15	0.09	0.00	0.09				
23.20	0.09	0.00	0.09				
23.25	0.09	0.00	0.09				
23.30	0.09	0.00	0.09				
23.35	0.09	0.00	0.09				

Summary for Link EPOI-1: EPOI-1

Inflow Area = 6.880 ac, 33.14% Impervious, Inflow Depth > 2.78" for 2YR PROJECTED event
Inflow = 18.38 cfs @ 12.12 hrs, Volume= 1.594 af
Primary = 18.38 cfs @ 12.12 hrs, Volume= 1.594 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link EPOI-1: EPOI-1



Hydrograph for Link EPOI-1: EPOI-1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.05	0.00	0.05
0.05	0.00	0.00	0.00	2.65	0.05	0.00	0.05
0.10	0.00	0.00	0.00	2.70	0.06	0.00	0.06
0.15	0.00	0.00	0.00	2.75	0.06	0.00	0.06
0.20	0.00	0.00	0.00	2.80	0.06	0.00	0.06
0.25	0.00	0.00	0.00	2.85	0.06	0.00	0.06
0.30	0.00	0.00	0.00	2.90	0.06	0.00	0.06
0.35	0.00	0.00	0.00	2.95	0.07	0.00	0.07
0.40	0.00	0.00	0.00	3.00	0.07	0.00	0.07
0.45	0.00	0.00	0.00	3.05	0.07	0.00	0.07
0.50	0.00	0.00	0.00	3.10	0.07	0.00	0.07
0.55	0.00	0.00	0.00	3.15	0.07	0.00	0.07
0.60	0.00	0.00	0.00	3.20	0.08	0.00	0.08
0.65	0.00	0.00	0.00	3.25	0.08	0.00	0.08
0.70	0.00	0.00	0.00	3.30	0.08	0.00	0.08
0.75	0.00	0.00	0.00	3.35	0.08	0.00	0.08
0.80	0.00	0.00	0.00	3.40	0.08	0.00	0.08
0.85	0.00	0.00	0.00	3.45	0.09	0.00	0.09
0.90	0.00	0.00	0.00	3.50	0.09	0.00	0.09
0.95	0.00	0.00	0.00	3.55	0.09	0.00	0.09
1.00	0.00	0.00	0.00	3.60	0.09	0.00	0.09
1.05	0.00	0.00	0.00	3.65	0.09	0.00	0.09
1.10	0.00	0.00	0.00	3.70	0.09	0.00	0.09
1.15	0.00	0.00	0.00	3.75	0.10	0.00	0.10
1.20	0.00	0.00	0.00	3.80	0.10	0.00	0.10
1.25	0.00	0.00	0.00	3.85	0.10	0.00	0.10
1.30	0.00	0.00	0.00	3.90	0.10	0.00	0.10
1.35	0.01	0.00	0.01	3.95	0.10	0.00	0.10
1.40	0.01	0.00	0.01	4.00	0.10	0.00	0.10
1.45	0.01	0.00	0.01	4.05	0.11	0.00	0.11
1.50	0.01	0.00	0.01	4.10	0.11	0.00	0.11
1.55	0.01	0.00	0.01	4.15	0.11	0.00	0.11
1.60	0.01	0.00	0.01	4.20	0.11	0.00	0.11
1.65	0.01	0.00	0.01	4.25	0.11	0.00	0.11
1.70	0.02	0.00	0.02	4.30	0.12	0.00	0.12
1.75	0.02	0.00	0.02	4.35	0.12	0.00	0.12
1.80	0.02	0.00	0.02	4.40	0.12	0.00	0.12
1.85	0.02	0.00	0.02	4.45	0.12	0.00	0.12
1.90	0.02	0.00	0.02	4.50	0.12	0.00	0.12
1.95	0.02	0.00	0.02	4.55	0.12	0.00	0.12
2.00	0.03	0.00	0.03	4.60	0.13	0.00	0.13
2.05	0.03	0.00	0.03	4.65	0.13	0.00	0.13
2.10	0.03	0.00	0.03	4.70	0.13	0.00	0.13
2.15	0.03	0.00	0.03	4.75	0.13	0.00	0.13
2.20	0.03	0.00	0.03	4.80	0.13	0.00	0.13
2.25	0.04	0.00	0.04	4.85	0.13	0.00	0.13
2.30	0.04	0.00	0.04	4.90	0.13	0.00	0.13
2.35	0.04	0.00	0.04	4.95	0.14	0.00	0.14
2.40	0.04	0.00	0.04	5.00	0.14	0.00	0.14
2.45	0.04	0.00	0.04	5.05	0.14	0.00	0.14
2.50	0.05	0.00	0.05	5.10	0.14	0.00	0.14
2.55	0.05	0.00	0.05	5.15	0.14	0.00	0.14

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.14	0.00	0.14	7.80	0.28	0.00	0.28
5.25	0.15	0.00	0.15	7.85	0.28	0.00	0.28
5.30	0.15	0.00	0.15	7.90	0.29	0.00	0.29
5.35	0.15	0.00	0.15	7.95	0.29	0.00	0.29
5.40	0.15	0.00	0.15	8.00	0.29	0.00	0.29
5.45	0.15	0.00	0.15	8.05	0.30	0.00	0.30
5.50	0.15	0.00	0.15	8.10	0.30	0.00	0.30
5.55	0.15	0.00	0.15	8.15	0.30	0.00	0.30
5.60	0.16	0.00	0.16	8.20	0.31	0.00	0.31
5.65	0.16	0.00	0.16	8.25	0.31	0.00	0.31
5.70	0.16	0.00	0.16	8.30	0.31	0.00	0.31
5.75	0.16	0.00	0.16	8.35	0.32	0.00	0.32
5.80	0.16	0.00	0.16	8.40	0.32	0.00	0.32
5.85	0.16	0.00	0.16	8.45	0.33	0.00	0.33
5.90	0.16	0.00	0.16	8.50	0.33	0.00	0.33
5.95	0.17	0.00	0.17	8.55	0.33	0.00	0.33
6.00	0.17	0.00	0.17	8.60	0.34	0.00	0.34
6.05	0.17	0.00	0.17	8.65	0.34	0.00	0.34
6.10	0.17	0.00	0.17	8.70	0.35	0.00	0.35
6.15	0.17	0.00	0.17	8.75	0.35	0.00	0.35
6.20	0.18	0.00	0.18	8.80	0.35	0.00	0.35
6.25	0.18	0.00	0.18	8.85	0.36	0.00	0.36
6.30	0.18	0.00	0.18	8.90	0.36	0.00	0.36
6.35	0.19	0.00	0.19	8.95	0.37	0.00	0.37
6.40	0.19	0.00	0.19	9.00	0.37	0.00	0.37
6.45	0.19	0.00	0.19	9.05	0.38	0.00	0.38
6.50	0.20	0.00	0.20	9.10	0.39	0.00	0.39
6.55	0.20	0.00	0.20	9.15	0.40	0.00	0.40
6.60	0.20	0.00	0.20	9.20	0.41	0.00	0.41
6.65	0.21	0.00	0.21	9.25	0.43	0.00	0.43
6.70	0.21	0.00	0.21	9.30	0.44	0.00	0.44
6.75	0.21	0.00	0.21	9.35	0.45	0.00	0.45
6.80	0.21	0.00	0.21	9.40	0.46	0.00	0.46
6.85	0.22	0.00	0.22	9.45	0.48	0.00	0.48
6.90	0.22	0.00	0.22	9.50	0.49	0.00	0.49
6.95	0.22	0.00	0.22	9.55	0.50	0.00	0.50
7.00	0.23	0.00	0.23	9.60	0.52	0.00	0.52
7.05	0.23	0.00	0.23	9.65	0.53	0.00	0.53
7.10	0.23	0.00	0.23	9.70	0.54	0.00	0.54
7.15	0.24	0.00	0.24	9.75	0.56	0.00	0.56
7.20	0.24	0.00	0.24	9.80	0.57	0.00	0.57
7.25	0.24	0.00	0.24	9.85	0.58	0.00	0.58
7.30	0.25	0.00	0.25	9.90	0.60	0.00	0.60
7.35	0.25	0.00	0.25	9.95	0.61	0.00	0.61
7.40	0.25	0.00	0.25	10.00	0.63	0.00	0.63
7.45	0.26	0.00	0.26	10.05	0.64	0.00	0.64
7.50	0.26	0.00	0.26	10.10	0.66	0.00	0.66
7.55	0.26	0.00	0.26	10.15	0.67	0.00	0.67
7.60	0.27	0.00	0.27	10.20	0.69	0.00	0.69
7.65	0.27	0.00	0.27	10.25	0.70	0.00	0.70
7.70	0.27	0.00	0.27	10.30	0.72	0.00	0.72
7.75	0.28	0.00	0.28	10.35	0.73	0.00	0.73

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.75	0.00	0.75	13.00	2.51	0.00	2.51
10.45	0.76	0.00	0.76	13.05	2.36	0.00	2.36
10.50	0.78	0.00	0.78	13.10	2.22	0.00	2.22
10.55	0.81	0.00	0.81	13.15	2.09	0.00	2.09
10.60	0.85	0.00	0.85	13.20	1.99	0.00	1.99
10.65	0.89	0.00	0.89	13.25	1.89	0.00	1.89
10.70	0.94	0.00	0.94	13.30	1.81	0.00	1.81
10.75	0.99	0.00	0.99	13.35	1.72	0.00	1.72
10.80	1.04	0.00	1.04	13.40	1.65	0.00	1.65
10.85	1.09	0.00	1.09	13.45	1.57	0.00	1.57
10.90	1.14	0.00	1.14	13.50	1.50	0.00	1.50
10.95	1.20	0.00	1.20	13.55	1.42	0.00	1.42
11.00	1.25	0.00	1.25	13.60	1.35	0.00	1.35
11.05	1.33	0.00	1.33	13.65	1.30	0.00	1.30
11.10	1.41	0.00	1.41	13.70	1.26	0.00	1.26
11.15	1.50	0.00	1.50	13.75	1.22	0.00	1.22
11.20	1.59	0.00	1.59	13.80	1.19	0.00	1.19
11.25	1.69	0.00	1.69	13.85	1.17	0.00	1.17
11.30	1.79	0.00	1.79	13.90	1.14	0.00	1.14
11.35	1.90	0.00	1.90	13.95	1.12	0.00	1.12
11.40	2.00	0.00	2.00	14.00	1.10	0.00	1.10
11.45	2.10	0.00	2.10	14.05	1.08	0.00	1.08
11.50	2.19	0.00	2.19	14.10	1.06	0.00	1.06
11.55	2.55	0.00	2.55	14.15	1.04	0.00	1.04
11.60	2.99	0.00	2.99	14.20	1.02	0.00	1.02
11.65	3.31	0.00	3.31	14.25	1.00	0.00	1.00
11.70	3.55	0.00	3.55	14.30	0.99	0.00	0.99
11.75	4.04	0.00	4.04	14.35	0.97	0.00	0.97
11.80	4.60	0.00	4.60	14.40	0.95	0.00	0.95
11.85	5.45	0.00	5.45	14.45	0.93	0.00	0.93
11.90	6.35	0.00	6.35	14.50	0.91	0.00	0.91
11.95	8.22	0.00	8.22	14.55	0.90	0.00	0.90
12.00	10.37	0.00	10.37	14.60	0.88	0.00	0.88
12.05	13.85	0.00	13.85	14.65	0.86	0.00	0.86
12.10	**17.71**	0.00	**17.71**	14.70	0.84	0.00	0.84
12.15	**16.68**	0.00	**16.68**	14.75	0.83	0.00	0.83
12.20	13.56	0.00	13.56	14.80	0.81	0.00	0.81
12.25	11.27	0.00	11.27	14.85	0.79	0.00	0.79
12.30	9.53	0.00	9.53	14.90	0.77	0.00	0.77
12.35	8.14	0.00	8.14	14.95	0.76	0.00	0.76
12.40	7.02	0.00	7.02	15.00	0.74	0.00	0.74
12.45	6.28	0.00	6.28	15.05	0.72	0.00	0.72
12.50	5.78	0.00	5.78	15.10	0.70	0.00	0.70
12.55	5.12	0.00	5.12	15.15	0.69	0.00	0.69
12.60	4.46	0.00	4.46	15.20	0.68	0.00	0.68
12.65	4.00	0.00	4.00	15.25	0.67	0.00	0.67
12.70	3.68	0.00	3.68	15.30	0.66	0.00	0.66
12.75	3.41	0.00	3.41	15.35	0.66	0.00	0.66
12.80	3.20	0.00	3.20	15.40	0.65	0.00	0.65
12.85	3.01	0.00	3.01	15.45	0.65	0.00	0.65
12.90	2.83	0.00	2.83	15.50	0.64	0.00	0.64
12.95	2.67	0.00	2.67	15.55	0.64	0.00	0.64

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.63	0.00	0.63	18.20	0.39	0.00	0.39
15.65	0.63	0.00	0.63	18.25	0.39	0.00	0.39
15.70	0.62	0.00	0.62	18.30	0.39	0.00	0.39
15.75	0.62	0.00	0.62	18.35	0.38	0.00	0.38
15.80	0.61	0.00	0.61	18.40	0.38	0.00	0.38
15.85	0.61	0.00	0.61	18.45	0.38	0.00	0.38
15.90	0.60	0.00	0.60	18.50	0.38	0.00	0.38
15.95	0.60	0.00	0.60	18.55	0.38	0.00	0.38
16.00	0.59	0.00	0.59	18.60	0.38	0.00	0.38
16.05	0.59	0.00	0.59	18.65	0.38	0.00	0.38
16.10	0.58	0.00	0.58	18.70	0.38	0.00	0.38
16.15	0.58	0.00	0.58	18.75	0.37	0.00	0.37
16.20	0.57	0.00	0.57	18.80	0.37	0.00	0.37
16.25	0.57	0.00	0.57	18.85	0.37	0.00	0.37
16.30	0.56	0.00	0.56	18.90	0.37	0.00	0.37
16.35	0.56	0.00	0.56	18.95	0.37	0.00	0.37
16.40	0.56	0.00	0.56	19.00	0.37	0.00	0.37
16.45	0.55	0.00	0.55	19.05	0.37	0.00	0.37
16.50	0.55	0.00	0.55	19.10	0.37	0.00	0.37
16.55	0.54	0.00	0.54	19.15	0.36	0.00	0.36
16.60	0.54	0.00	0.54	19.20	0.36	0.00	0.36
16.65	0.53	0.00	0.53	19.25	0.36	0.00	0.36
16.70	0.53	0.00	0.53	19.30	0.36	0.00	0.36
16.75	0.52	0.00	0.52	19.35	0.36	0.00	0.36
16.80	0.52	0.00	0.52	19.40	0.36	0.00	0.36
16.85	0.51	0.00	0.51	19.45	0.36	0.00	0.36
16.90	0.51	0.00	0.51	19.50	0.36	0.00	0.36
16.95	0.50	0.00	0.50	19.55	0.35	0.00	0.35
17.00	0.50	0.00	0.50	19.60	0.35	0.00	0.35
17.05	0.50	0.00	0.50	19.65	0.35	0.00	0.35
17.10	0.49	0.00	0.49	19.70	0.35	0.00	0.35
17.15	0.49	0.00	0.49	19.75	0.35	0.00	0.35
17.20	0.48	0.00	0.48	19.80	0.35	0.00	0.35
17.25	0.48	0.00	0.48	19.85	0.35	0.00	0.35
17.30	0.47	0.00	0.47	19.90	0.35	0.00	0.35
17.35	0.47	0.00	0.47	19.95	0.35	0.00	0.35
17.40	0.46	0.00	0.46	20.00	0.34	0.00	0.34
17.45	0.46	0.00	0.46	20.05	0.34	0.00	0.34
17.50	0.45	0.00	0.45	20.10	0.34	0.00	0.34
17.55	0.45	0.00	0.45	20.15	0.34	0.00	0.34
17.60	0.44	0.00	0.44	20.20	0.34	0.00	0.34
17.65	0.44	0.00	0.44	20.25	0.34	0.00	0.34
17.70	0.43	0.00	0.43	20.30	0.34	0.00	0.34
17.75	0.43	0.00	0.43	20.35	0.34	0.00	0.34
17.80	0.42	0.00	0.42	20.40	0.34	0.00	0.34
17.85	0.42	0.00	0.42	20.45	0.33	0.00	0.33
17.90	0.42	0.00	0.42	20.50	0.33	0.00	0.33
17.95	0.41	0.00	0.41	20.55	0.33	0.00	0.33
18.00	0.41	0.00	0.41	20.60	0.33	0.00	0.33
18.05	0.40	0.00	0.40	20.65	0.33	0.00	0.33
18.10	0.40	0.00	0.40	20.70	0.33	0.00	0.33
18.15	0.39	0.00	0.39	20.75	0.33	0.00	0.33

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.33	0.00	0.33	23.40	0.27	0.00	0.27
20.85	0.32	0.00	0.32	23.45	0.26	0.00	0.26
20.90	0.32	0.00	0.32	23.50	0.26	0.00	0.26
20.95	0.32	0.00	0.32	23.55	0.26	0.00	0.26
21.00	0.32	0.00	0.32	23.60	0.26	0.00	0.26
21.05	0.32	0.00	0.32	23.65	0.26	0.00	0.26
21.10	0.32	0.00	0.32	23.70	0.26	0.00	0.26
21.15	0.32	0.00	0.32	23.75	0.26	0.00	0.26
21.20	0.32	0.00	0.32	23.80	0.26	0.00	0.26
21.25	0.32	0.00	0.32	23.85	0.25	0.00	0.25
21.30	0.32	0.00	0.32	23.90	0.25	0.00	0.25
21.35	0.31	0.00	0.31	23.95	0.26	0.00	0.26
21.40	0.31	0.00	0.31	24.00	0.28	0.00	0.28
21.45	0.31	0.00	0.31				
21.50	0.31	0.00	0.31				
21.55	0.31	0.00	0.31				
21.60	0.31	0.00	0.31				
21.65	0.31	0.00	0.31				
21.70	0.30	0.00	0.30				
21.75	0.30	0.00	0.30				
21.80	0.30	0.00	0.30				
21.85	0.30	0.00	0.30				
21.90	0.30	0.00	0.30				
21.95	0.30	0.00	0.30				
22.00	0.30	0.00	0.30				
22.05	0.30	0.00	0.30				
22.10	0.30	0.00	0.30				
22.15	0.29	0.00	0.29				
22.20	0.29	0.00	0.29				
22.25	0.29	0.00	0.29				
22.30	0.29	0.00	0.29				
22.35	0.29	0.00	0.29				
22.40	0.29	0.00	0.29				
22.45	0.29	0.00	0.29				
22.50	0.29	0.00	0.29				
22.55	0.28	0.00	0.28				
22.60	0.28	0.00	0.28				
22.65	0.28	0.00	0.28				
22.70	0.28	0.00	0.28				
22.75	0.28	0.00	0.28				
22.80	0.28	0.00	0.28				
22.85	0.28	0.00	0.28				
22.90	0.28	0.00	0.28				
22.95	0.28	0.00	0.28				
23.00	0.27	0.00	0.27				
23.05	0.27	0.00	0.27				
23.10	0.27	0.00	0.27				
23.15	0.27	0.00	0.27				
23.20	0.27	0.00	0.27				
23.25	0.27	0.00	0.27				
23.30	0.27	0.00	0.27				
23.35	0.27	0.00	0.27				

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentEDA 1B PERV: EDA-1B PERV Runoff Area=0.380 ac 0.00% Impervious Runoff Depth>1.45"
Flow Length=761' Tc=5.4 min CN=53 Runoff=0.53 cfs 0.046 af

SubcatchmentEDA1A IMP: EDA1A IMP Runoff Area=1.100 ac 68.18% Impervious Runoff Depth>5.81"
Flow Length=496' Tc=3.1 min CN=97 Runoff=7.11 cfs 0.532 af

SubcatchmentEDA1A PERV: EDA-1A PERV Runoff Area=0.280 ac 0.00% Impervious Runoff Depth>3.93"
Flow Length=496' Tc=3.1 min CN=80 Runoff=1.41 cfs 0.092 af

SubcatchmentEDA1B IMP: EDA1B IMP Runoff Area=1.550 ac 19.35% Impervious Runoff Depth>5.69"
Flow Length=787' Tc=6.2 min CN=96 Runoff=8.14 cfs 0.734 af

SubcatchmentEDA2 IMP: EDA2 IMP Runoff Area=0.310 ac 100.00% Impervious Runoff Depth>5.93"
Flow Length=351' Tc=2.2 min CN=98 Runoff=2.14 cfs 0.153 af

SubcatchmentEDA3 IMP: EDA3 IMP Runoff Area=0.800 ac 100.00% Impervious Runoff Depth>5.92"
Flow Length=804' Tc=4.7 min CN=98 Runoff=4.66 cfs 0.395 af

SubcatchmentEDA3 PERV: EDA3 PERV Runoff Area=0.850 ac 0.00% Impervious Runoff Depth>3.93"
Flow Length=131' Tc=3.4 min CN=80 Runoff=4.18 cfs 0.278 af

SubcatchmentEDA4 IMP: EDA4 IMP Runoff Area=0.170 ac 70.59% Impervious Runoff Depth>5.81"
Flow Length=188' Tc=1.8 min CN=97 Runoff=1.19 cfs 0.082 af

SubcatchmentEDA4 PERV: EDA4 PERV Runoff Area=1.440 ac 0.00% Impervious Runoff Depth>3.91"
Flow Length=415' Tc=15.0 min CN=80 Runoff=3.87 cfs 0.469 af

Link E1A: E1A Inflow=8.51 cfs 0.624 af
Primary=8.51 cfs 0.624 af

Link E1B: E1B Inflow=10.42 cfs 0.933 af
Primary=10.42 cfs 0.933 af

Link EPOI-1: EPOI-1 Inflow=31.45 cfs 2.782 af
Primary=31.45 cfs 2.782 af

Total Runoff Area = 6.880 ac Runoff Volume = 2.782 af Average Runoff Depth = 4.85"
66.86% Pervious = 4.600 ac 33.14% Impervious = 2.280 ac

Summary for Subcatchment EDA 1B PERV: EDA-1B PERV

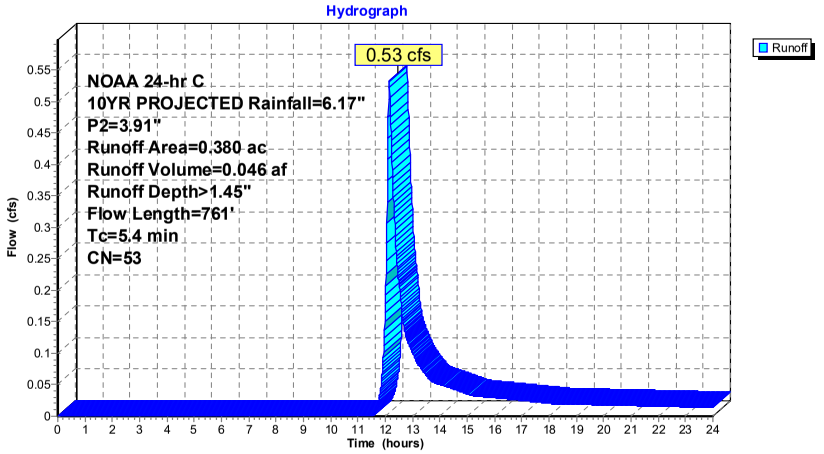
Runoff = 0.53 cfs @ 12.14 hrs, Volume= 0.046 af, Depth> 1.45"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR PROJECTED Rainfall=6.17", P2=3.91"

Area (ac)	CN	Description
0.250	39	>75% Grass cover, Good, HSG A
0.130	80	>75% Grass cover, Good, HSG D
0.380	53	Weighted Average
0.380		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	93	0.0100	1.14		**Sheet Flow, Grass** Smooth surfaces n= 0.011 P2= 3.91"
0.8	74	0.0100	1.50		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.3	93	0.0110	5.40	9.55	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
5.4	761	Total			

Subcatchment EDA 1B PERV: EDA-1B PERV



Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.19	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.19	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.20	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.20	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.21	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.21	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.21	0.00	0.00
0.40	0.03	0.00	0.00	3.00	0.22	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.22	0.00	0.00
0.50	0.03	0.00	0.00	3.10	0.23	0.00	0.00
0.55	0.04	0.00	0.00	3.15	0.23	0.00	0.00
0.60	0.04	0.00	0.00	3.20	0.23	0.00	0.00
0.65	0.04	0.00	0.00	3.25	0.24	0.00	0.00
0.70	0.05	0.00	0.00	3.30	0.24	0.00	0.00
0.75	0.05	0.00	0.00	3.35	0.25	0.00	0.00
0.80	0.05	0.00	0.00	3.40	0.25	0.00	0.00
0.85	0.06	0.00	0.00	3.45	0.25	0.00	0.00
0.90	0.06	0.00	0.00	3.50	0.26	0.00	0.00
0.95	0.06	0.00	0.00	3.55	0.26	0.00	0.00
1.00	0.07	0.00	0.00	3.60	0.27	0.00	0.00
1.05	0.07	0.00	0.00	3.65	0.27	0.00	0.00
1.10	0.07	0.00	0.00	3.70	0.28	0.00	0.00
1.15	0.08	0.00	0.00	3.75	0.28	0.00	0.00
1.20	0.08	0.00	0.00	3.80	0.28	0.00	0.00
1.25	0.08	0.00	0.00	3.85	0.29	0.00	0.00
1.30	0.09	0.00	0.00	3.90	0.29	0.00	0.00
1.35	0.09	0.00	0.00	3.95	0.30	0.00	0.00
1.40	0.10	0.00	0.00	4.00	0.30	0.00	0.00
1.45	0.10	0.00	0.00	4.05	0.31	0.00	0.00
1.50	0.10	0.00	0.00	4.10	0.31	0.00	0.00
1.55	0.11	0.00	0.00	4.15	0.32	0.00	0.00
1.60	0.11	0.00	0.00	4.20	0.32	0.00	0.00
1.65	0.11	0.00	0.00	4.25	0.32	0.00	0.00
1.70	0.12	0.00	0.00	4.30	0.33	0.00	0.00
1.75	0.12	0.00	0.00	4.35	0.33	0.00	0.00
1.80	0.12	0.00	0.00	4.40	0.34	0.00	0.00
1.85	0.13	0.00	0.00	4.45	0.34	0.00	0.00
1.90	0.13	0.00	0.00	4.50	0.35	0.00	0.00
1.95	0.14	0.00	0.00	4.55	0.35	0.00	0.00
2.00	0.14	0.00	0.00	4.60	0.36	0.00	0.00
2.05	0.14	0.00	0.00	4.65	0.36	0.00	0.00
2.10	0.15	0.00	0.00	4.70	0.36	0.00	0.00
2.15	0.15	0.00	0.00	4.75	0.37	0.00	0.00
2.20	0.15	0.00	0.00	4.80	0.37	0.00	0.00
2.25	0.16	0.00	0.00	4.85	0.38	0.00	0.00
2.30	0.16	0.00	0.00	4.90	0.38	0.00	0.00
2.35	0.17	0.00	0.00	4.95	0.39	0.00	0.00
2.40	0.17	0.00	0.00	5.00	0.39	0.00	0.00
2.45	0.17	0.00	0.00	5.05	0.40	0.00	0.00
2.50	0.18	0.00	0.00	5.10	0.40	0.00	0.00
2.55	0.18	0.00	0.00	5.15	0.41	0.00	0.00

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.41	0.00	0.00	7.80	0.71	0.00	0.00
5.25	0.42	0.00	0.00	7.85	0.72	0.00	0.00
5.30	0.42	0.00	0.00	7.90	0.72	0.00	0.00
5.35	0.43	0.00	0.00	7.95	0.73	0.00	0.00
5.40	0.43	0.00	0.00	8.00	0.74	0.00	0.00
5.45	0.44	0.00	0.00	8.05	0.75	0.00	0.00
5.50	0.44	0.00	0.00	8.10	0.75	0.00	0.00
5.55	0.44	0.00	0.00	8.15	0.76	0.00	0.00
5.60	0.45	0.00	0.00	8.20	0.77	0.00	0.00
5.65	0.45	0.00	0.00	8.25	0.78	0.00	0.00
5.70	0.46	0.00	0.00	8.30	0.79	0.00	0.00
5.75	0.46	0.00	0.00	8.35	0.79	0.00	0.00
5.80	0.47	0.00	0.00	8.40	0.80	0.00	0.00
5.85	0.47	0.00	0.00	8.45	0.81	0.00	0.00
5.90	0.48	0.00	0.00	8.50	0.82	0.00	0.00
5.95	0.48	0.00	0.00	8.55	0.83	0.00	0.00
6.00	0.49	0.00	0.00	8.60	0.83	0.00	0.00
6.05	0.49	0.00	0.00	8.65	0.84	0.00	0.00
6.10	0.50	0.00	0.00	8.70	0.85	0.00	0.00
6.15	0.50	0.00	0.00	8.75	0.86	0.00	0.00
6.20	0.51	0.00	0.00	8.80	0.87	0.00	0.00
6.25	0.51	0.00	0.00	8.85	0.88	0.00	0.00
6.30	0.52	0.00	0.00	8.90	0.88	0.00	0.00
6.35	0.53	0.00	0.00	8.95	0.89	0.00	0.00
6.40	0.53	0.00	0.00	9.00	0.90	0.00	0.00
6.45	0.54	0.00	0.00	9.05	0.91	0.00	0.00
6.50	0.54	0.00	0.00	9.10	0.92	0.00	0.00
6.55	0.55	0.00	0.00	9.15	0.93	0.00	0.00
6.60	0.55	0.00	0.00	9.20	0.94	0.00	0.00
6.65	0.56	0.00	0.00	9.25	0.95	0.00	0.00
6.70	0.57	0.00	0.00	9.30	0.96	0.00	0.00
6.75	0.57	0.00	0.00	9.35	0.97	0.00	0.00
6.80	0.58	0.00	0.00	9.40	0.98	0.00	0.00
6.85	0.58	0.00	0.00	9.45	0.99	0.00	0.00
6.90	0.59	0.00	0.00	9.50	1.00	0.00	0.00
6.95	0.60	0.00	0.00	9.55	1.01	0.00	0.00
7.00	0.60	0.00	0.00	9.60	1.02	0.00	0.00
7.05	0.61	0.00	0.00	9.65	1.04	0.00	0.00
7.10	0.61	0.00	0.00	9.70	1.05	0.00	0.00
7.15	0.62	0.00	0.00	9.75	1.06	0.00	0.00
7.20	0.63	0.00	0.00	9.80	1.07	0.00	0.00
7.25	0.63	0.00	0.00	9.85	1.09	0.00	0.00
7.30	0.64	0.00	0.00	9.90	1.10	0.00	0.00
7.35	0.65	0.00	0.00	9.95	1.11	0.00	0.00
7.40	0.65	0.00	0.00	10.00	1.12	0.00	0.00
7.45	0.66	0.00	0.00	10.05	1.14	0.00	0.00
7.50	0.67	0.00	0.00	10.10	1.15	0.00	0.00
7.55	0.67	0.00	0.00	10.15	1.17	0.00	0.00
7.60	0.68	0.00	0.00	10.20	1.18	0.00	0.00
7.65	0.69	0.00	0.00	10.25	1.20	0.00	0.00
7.70	0.70	0.00	0.00	10.30	1.21	0.00	0.00
7.75	0.70	0.00	0.00	10.35	1.23	0.00	0.00

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.24	0.00	0.00	13.00	4.69	0.72	0.10
10.45	1.26	0.00	0.00	13.05	4.71	0.73	0.10
10.50	1.27	0.00	0.00	13.10	4.74	0.74	0.09
10.55	1.29	0.00	0.00	13.15	4.76	0.75	0.09
10.60	1.31	0.00	0.00	13.20	4.78	0.76	0.08
10.65	1.33	0.00	0.00	13.25	4.80	0.77	0.08
10.70	1.34	0.00	0.00	13.30	4.83	0.78	0.08
10.75	1.37	0.00	0.00	13.35	4.84	0.79	0.07
10.80	1.39	0.00	0.00	13.40	4.86	0.80	0.07
10.85	1.41	0.00	0.00	13.45	4.88	0.81	0.07
10.90	1.43	0.00	0.00	13.50	4.90	0.81	0.06
10.95	1.46	0.00	0.00	13.55	4.91	0.82	0.06
11.00	1.48	0.00	0.00	13.60	4.93	0.83	0.06
11.05	1.51	0.00	0.00	13.65	4.94	0.84	0.06
11.10	1.54	0.00	0.00	13.70	4.96	0.84	0.06
11.15	1.57	0.00	0.00	13.75	4.97	0.85	0.05
11.20	1.60	0.00	0.00	13.80	4.99	0.86	0.05
11.25	1.63	0.00	0.00	13.85	5.00	0.86	0.05
11.30	1.67	0.00	0.00	13.90	5.02	0.87	0.05
11.35	1.70	0.00	0.00	13.95	5.03	0.88	0.05
11.40	1.74	0.00	0.00	14.00	5.05	0.88	0.05
11.45	1.78	0.00	0.00	14.05	5.06	0.89	0.05
11.50	1.82	0.00	0.00	14.10	5.07	0.89	0.05
11.55	1.89	0.00	0.00	14.15	5.08	0.90	0.05
11.60	1.95	0.00	0.00	14.20	5.10	0.91	0.05
11.65	2.01	0.01	0.01	14.25	5.11	0.91	0.05
11.70	2.08	0.01	0.02	14.30	5.12	0.92	0.05
11.75	2.17	0.02	0.02	14.35	5.13	0.92	0.05
11.80	2.26	0.03	0.04	14.40	5.15	0.93	0.04
11.85	2.38	0.04	0.05	14.45	5.16	0.93	0.04
11.90	2.51	0.06	0.07	14.50	5.17	0.94	0.04
11.95	2.72	0.09	0.11	14.55	5.18	0.95	0.04
12.00	2.94	0.14	0.18	14.60	5.19	0.95	0.04
12.05	3.30	0.22	0.27	14.65	5.20	0.96	0.04
12.10	3.66	0.33	**0.44**	14.70	5.21	0.96	0.04
12.15	3.79	0.37	**0.53**	14.75	5.22	0.97	0.04
12.20	3.91	0.42	0.46	14.80	5.23	0.97	0.04
12.25	4.00	0.45	0.40	14.85	5.24	0.97	0.04
12.30	4.09	0.48	0.35	14.90	5.25	0.98	0.04
12.35	4.16	0.50	0.31	14.95	5.26	0.98	0.04
12.40	4.22	0.53	0.26	15.00	5.27	0.99	0.04
12.45	4.28	0.55	0.23	15.05	5.28	0.99	0.03
12.50	4.35	0.58	0.21	15.10	5.29	1.00	0.03
12.55	4.39	0.59	0.20	15.15	5.29	1.00	0.03
12.60	4.43	0.61	0.17	15.20	5.30	1.00	0.03
12.65	4.47	0.63	0.15	15.25	5.31	1.01	0.03
12.70	4.50	0.64	0.14	15.30	5.32	1.01	0.03
12.75	4.54	0.66	0.13	15.35	5.33	1.02	0.03
12.80	4.57	0.67	0.12	15.40	5.34	1.02	0.03
12.85	4.60	0.68	0.12	15.45	5.34	1.03	0.03
12.90	4.63	0.70	0.11	15.50	5.35	1.03	0.03
12.95	4.66	0.71	0.11	15.55	5.36	1.03	0.03

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.37	1.04	0.03	18.20	5.70	1.21	0.02
15.65	5.38	1.04	0.03	18.25	5.71	1.21	0.02
15.70	5.38	1.05	0.03	18.30	5.71	1.21	0.02
15.75	5.39	1.05	0.03	18.35	5.72	1.21	0.02
15.80	5.40	1.05	0.03	18.40	5.72	1.22	0.02
15.85	5.41	1.06	0.03	18.45	5.73	1.22	0.02
15.90	5.42	1.06	0.03	18.50	5.73	1.22	0.02
15.95	5.42	1.06	0.03	18.55	5.73	1.22	0.02
16.00	5.43	1.07	0.03	18.60	5.74	1.23	0.02
16.05	5.44	1.07	0.03	18.65	5.74	1.23	0.02
16.10	5.45	1.08	0.03	18.70	5.75	1.23	0.02
16.15	5.45	1.08	0.03	18.75	5.75	1.23	0.02
16.20	5.46	1.08	0.03	18.80	5.76	1.24	0.02
16.25	5.47	1.09	0.03	18.85	5.76	1.24	0.02
16.30	5.47	1.09	0.03	18.90	5.77	1.24	0.02
16.35	5.48	1.09	0.03	18.95	5.77	1.24	0.02
16.40	5.49	1.10	0.03	19.00	5.78	1.25	0.02
16.45	5.50	1.10	0.03	19.05	5.78	1.25	0.02
16.50	5.50	1.10	0.03	19.10	5.79	1.25	0.02
16.55	5.51	1.11	0.03	19.15	5.79	1.25	0.02
16.60	5.52	1.11	0.03	19.20	5.80	1.26	0.02
16.65	5.52	1.11	0.03	19.25	5.80	1.26	0.02
16.70	5.53	1.12	0.03	19.30	5.81	1.26	0.02
16.75	5.54	1.12	0.03	19.35	5.81	1.26	0.02
16.80	5.54	1.12	0.03	19.40	5.81	1.26	0.02
16.85	5.55	1.13	0.03	19.45	5.82	1.27	0.02
16.90	5.56	1.13	0.03	19.50	5.82	1.27	0.02
16.95	5.56	1.13	0.03	19.55	5.83	1.27	0.02
17.00	5.57	1.14	0.03	19.60	5.83	1.27	0.02
17.05	5.57	1.14	0.02	19.65	5.84	1.28	0.02
17.10	5.58	1.14	0.02	19.70	5.84	1.28	0.02
17.15	5.59	1.15	0.02	19.75	5.85	1.28	0.02
17.20	5.59	1.15	0.02	19.80	5.85	1.28	0.02
17.25	5.60	1.15	0.02	19.85	5.85	1.29	0.02
17.30	5.60	1.16	0.02	19.90	5.86	1.29	0.02
17.35	5.61	1.16	0.02	19.95	5.86	1.29	0.02
17.40	5.62	1.16	0.02	20.00	5.87	1.29	0.02
17.45	5.62	1.16	0.02	20.05	5.87	1.30	0.02
17.50	5.63	1.17	0.02	20.10	5.88	1.30	0.02
17.55	5.63	1.17	0.02	20.15	5.88	1.30	0.02
17.60	5.64	1.17	0.02	20.20	5.89	1.30	0.02
17.65	5.64	1.18	0.02	20.25	5.89	1.30	0.02
17.70	5.65	1.18	0.02	20.30	5.89	1.31	0.02
17.75	5.66	1.18	0.02	20.35	5.90	1.31	0.02
17.80	5.66	1.18	0.02	20.40	5.90	1.31	0.02
17.85	5.67	1.19	0.02	20.45	5.91	1.31	0.02
17.90	5.67	1.19	0.02	20.50	5.91	1.32	0.02
17.95	5.68	1.19	0.02	20.55	5.92	1.32	0.02
18.00	5.68	1.20	0.02	20.60	5.92	1.32	0.02
18.05	5.69	1.20	0.02	20.65	5.92	1.32	0.02
18.10	5.69	1.20	0.02	20.70	5.93	1.33	0.02
18.15	5.70	1.20	0.02	20.75	5.93	1.33	0.02

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.94	1.33	0.02	23.40	6.13	1.43	0.01
20.85	5.94	1.33	0.02	23.45	6.13	1.44	0.01
20.90	5.94	1.33	0.02	23.50	6.14	1.44	0.01
20.95	5.95	1.34	0.02	23.55	6.14	1.44	0.01
21.00	5.95	1.34	0.02	23.60	6.14	1.44	0.01
21.05	5.96	1.34	0.02	23.65	6.15	1.44	0.01
21.10	5.96	1.34	0.02	23.70	6.15	1.45	0.01
21.15	5.96	1.34	0.02	23.75	6.15	1.45	0.01
21.20	5.97	1.35	0.02	23.80	6.16	1.45	0.01
21.25	5.97	1.35	0.02	23.85	6.16	1.45	0.01
21.30	5.98	1.35	0.02	23.90	6.16	1.45	0.01
21.35	5.98	1.35	0.02	23.95	6.17	1.45	0.01
21.40	5.98	1.36	0.02	24.00	**6.17**	**1.46**	0.01
21.45	5.99	1.36	0.02				
21.50	5.99	1.36	0.02				
21.55	6.00	1.36	0.02				
21.60	6.00	1.36	0.02				
21.65	6.00	1.37	0.02				
21.70	6.01	1.37	0.02				
21.75	6.01	1.37	0.02				
21.80	6.02	1.37	0.02				
21.85	6.02	1.37	0.02				
21.90	6.02	1.38	0.02				
21.95	6.03	1.38	0.02				
22.00	6.03	1.38	0.02				
22.05	6.03	1.38	0.02				
22.10	6.04	1.38	0.02				
22.15	6.04	1.39	0.02				
22.20	6.05	1.39	0.02				
22.25	6.05	1.39	0.02				
22.30	6.05	1.39	0.02				
22.35	6.06	1.39	0.02				
22.40	6.06	1.40	0.02				
22.45	6.06	1.40	0.02				
22.50	6.07	1.40	0.02				
22.55	6.07	1.40	0.02				
22.60	6.07	1.40	0.02				
22.65	6.08	1.41	0.02				
22.70	6.08	1.41	0.02				
22.75	6.09	1.41	0.01				
22.80	6.09	1.41	0.01				
22.85	6.09	1.41	0.01				
22.90	6.10	1.42	0.01				
22.95	6.10	1.42	0.01				
23.00	6.10	1.42	0.01				
23.05	6.11	1.42	0.01				
23.10	6.11	1.42	0.01				
23.15	6.11	1.43	0.01				
23.20	6.12	1.43	0.01				
23.25	6.12	1.43	0.01				
23.30	6.12	1.43	0.01				
23.35	6.13	1.43	0.01				

Summary for Subcatchment EDA1A IMP: EDA1A IMP

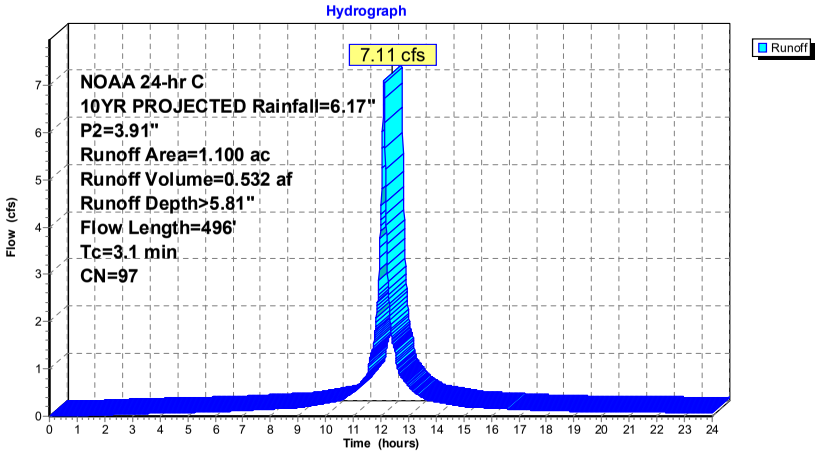
Runoff = 7.11 cfs @ 12.11 hrs, Volume= 0.532 af, Depth> 5.81"
Routed to Link E1A : E1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR PROJECTED Rainfall=6.17", P2=3.91"

	Area (ac)	CN	Description
	0.350	96	Gravel surface, HSG D
*	0.570	98	Impervious vehicular
*	0.180	98	Impervious non vehicular
	1.100	97	Weighted Average
	0.350		31.82% Pervious Area
	0.750		68.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0100	1.15		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
3.1	496	Total			

Subcatchment EDA1A IMP: EDA1A IMP



Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.04	0.04
0.05	0.00	0.00	0.00	2.65	0.19	0.04	0.04
0.10	0.01	0.00	0.00	2.70	0.19	0.04	0.04
0.15	0.01	0.00	0.00	2.75	0.20	0.04	0.04
0.20	0.01	0.00	0.00	2.80	0.20	0.04	0.05
0.25	0.02	0.00	0.00	2.85	0.21	0.05	0.05
0.30	0.02	0.00	0.00	2.90	0.21	0.05	0.05
0.35	0.02	0.00	0.00	2.95	0.21	0.05	0.05
0.40	0.03	0.00	0.00	3.00	0.22	0.05	0.05
0.45	0.03	0.00	0.00	3.05	0.22	0.05	0.05
0.50	0.03	0.00	0.00	3.10	0.23	0.06	0.05
0.55	0.04	0.00	0.00	3.15	0.23	0.06	0.05
0.60	0.04	0.00	0.00	3.20	0.23	0.06	0.05
0.65	0.04	0.00	0.00	3.25	0.24	0.06	0.05
0.70	0.05	0.00	0.00	3.30	0.24	0.07	0.05
0.75	0.05	0.00	0.00	3.35	0.25	0.07	0.05
0.80	0.05	0.00	0.00	3.40	0.25	0.07	0.06
0.85	0.06	0.00	0.00	3.45	0.25	0.07	0.06
0.90	0.06	0.00	0.00	3.50	0.26	0.08	0.06
0.95	0.06	0.00	0.00	3.55	0.26	0.08	0.06
1.00	0.07	0.00	0.00	3.60	0.27	0.08	0.06
1.05	0.07	0.00	0.00	3.65	0.27	0.08	0.06
1.10	0.07	0.00	0.00	3.70	0.28	0.09	0.06
1.15	0.08	0.00	0.00	3.75	0.28	0.09	0.06
1.20	0.08	0.00	0.01	3.80	0.28	0.09	0.06
1.25	0.08	0.00	0.01	3.85	0.29	0.10	0.06
1.30	0.09	0.00	0.01	3.90	0.29	0.10	0.06
1.35	0.09	0.00	0.01	3.95	0.30	0.10	0.06
1.40	0.10	0.00	0.01	4.00	0.30	0.10	0.06
1.45	0.10	0.00	0.01	4.05	0.31	0.11	0.07
1.50	0.10	0.00	0.02	4.10	0.31	0.11	0.07
1.55	0.11	0.01	0.02	4.15	0.32	0.11	0.07
1.60	0.11	0.01	0.02	4.20	0.32	0.12	0.07
1.65	0.11	0.01	0.02	4.25	0.32	0.12	0.07
1.70	0.12	0.01	0.02	4.30	0.33	0.12	0.07
1.75	0.12	0.01	0.02	4.35	0.33	0.13	0.07
1.80	0.12	0.01	0.02	4.40	0.34	0.13	0.07
1.85	0.13	0.01	0.02	4.45	0.34	0.13	0.07
1.90	0.13	0.01	0.03	4.50	0.35	0.14	0.07
1.95	0.14	0.01	0.03	4.55	0.35	0.14	0.07
2.00	0.14	0.02	0.03	4.60	0.36	0.14	0.07
2.05	0.14	0.02	0.03	4.65	0.36	0.15	0.07
2.10	0.15	0.02	0.03	4.70	0.36	0.15	0.07
2.15	0.15	0.02	0.03	4.75	0.37	0.15	0.08
2.20	0.15	0.02	0.03	4.80	0.37	0.16	0.08
2.25	0.16	0.02	0.03	4.85	0.38	0.16	0.08
2.30	0.16	0.02	0.04	4.90	0.38	0.16	0.08
2.35	0.17	0.03	0.04	4.95	0.39	0.17	0.08
2.40	0.17	0.03	0.04	5.00	0.39	0.17	0.08
2.45	0.17	0.03	0.04	5.05	0.40	0.17	0.08
2.50	0.18	0.03	0.04	5.10	0.40	0.18	0.08
2.55	0.18	0.03	0.04	5.15	0.41	0.18	0.08

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.41	0.19	0.08	7.80	0.71	0.44	0.14
5.25	0.42	0.19	0.08	7.85	0.72	0.45	0.14
5.30	0.42	0.19	0.08	7.90	0.72	0.45	0.14
5.35	0.43	0.20	0.08	7.95	0.73	0.46	0.15
5.40	0.43	0.20	0.08	8.00	0.74	0.47	0.15
5.45	0.44	0.20	0.08	8.05	0.75	0.47	0.15
5.50	0.44	0.21	0.08	8.10	0.75	0.48	0.15
5.55	0.44	0.21	0.09	8.15	0.76	0.49	0.15
5.60	0.45	0.22	0.09	8.20	0.77	0.49	0.15
5.65	0.45	0.22	0.09	8.25	0.78	0.50	0.15
5.70	0.46	0.22	0.09	8.30	0.79	0.51	0.16
5.75	0.46	0.23	0.09	8.35	0.79	0.51	0.16
5.80	0.47	0.23	0.09	8.40	0.80	0.52	0.16
5.85	0.47	0.24	0.09	8.45	0.81	0.53	0.16
5.90	0.48	0.24	0.09	8.50	0.82	0.54	0.16
5.95	0.48	0.24	0.09	8.55	0.83	0.54	0.16
6.00	0.49	0.25	0.09	8.60	0.83	0.55	0.16
6.05	0.49	0.25	0.09	8.65	0.84	0.56	0.17
6.10	0.50	0.26	0.09	8.70	0.85	0.57	0.17
6.15	0.50	0.26	0.09	8.75	0.86	0.57	0.17
6.20	0.51	0.26	0.10	8.80	0.87	0.58	0.17
6.25	0.51	0.27	0.10	8.85	0.88	0.59	0.17
6.30	0.52	0.27	0.10	8.90	0.88	0.60	0.17
6.35	0.53	0.28	0.10	8.95	0.89	0.61	0.18
6.40	0.53	0.28	0.10	9.00	0.90	0.61	0.18
6.45	0.54	0.29	0.10	9.05	0.91	0.62	0.18
6.50	0.54	0.29	0.10	9.10	0.92	0.63	0.18
6.55	0.55	0.30	0.11	9.15	0.93	0.64	0.19
6.60	0.55	0.30	0.11	9.20	0.94	0.65	0.19
6.65	0.56	0.31	0.11	9.25	0.95	0.66	0.20
6.70	0.57	0.31	0.11	9.30	0.96	0.67	0.20
6.75	0.57	0.32	0.11	9.35	0.97	0.68	0.21
6.80	0.58	0.32	0.11	9.40	0.98	0.69	0.21
6.85	0.58	0.33	0.11	9.45	0.99	0.70	0.22
6.90	0.59	0.33	0.12	9.50	1.00	0.71	0.22
6.95	0.60	0.34	0.12	9.55	1.01	0.72	0.23
7.00	0.60	0.34	0.12	9.60	1.02	0.73	0.24
7.05	0.61	0.35	0.12	9.65	1.04	0.74	0.24
7.10	0.61	0.35	0.12	9.70	1.05	0.75	0.25
7.15	0.62	0.36	0.12	9.75	1.06	0.76	0.25
7.20	0.63	0.37	0.12	9.80	1.07	0.77	0.26
7.25	0.63	0.37	0.13	9.85	1.09	0.79	0.26
7.30	0.64	0.38	0.13	9.90	1.10	0.80	0.27
7.35	0.65	0.38	0.13	9.95	1.11	0.81	0.27
7.40	0.65	0.39	0.13	10.00	1.12	0.82	0.28
7.45	0.66	0.39	0.13	10.05	1.14	0.84	0.28
7.50	0.67	0.40	0.13	10.10	1.15	0.85	0.29
7.55	0.67	0.41	0.13	10.15	1.17	0.86	0.29
7.60	0.68	0.41	0.14	10.20	1.18	0.88	0.30
7.65	0.69	0.42	0.14	10.25	1.20	0.89	0.30
7.70	0.70	0.43	0.14	10.30	1.21	0.90	0.31
7.75	0.70	0.43	0.14	10.35	1.23	0.92	0.31

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.24	0.93	0.32	13.00	4.69	4.34	0.64
10.45	1.26	0.95	0.32	13.05	4.71	4.36	0.60
10.50	1.27	0.96	0.33	13.10	4.74	4.39	0.56
10.55	1.29	0.98	0.34	13.15	4.76	4.41	0.54
10.60	1.31	1.00	0.36	13.20	4.78	4.43	0.51
10.65	1.33	1.02	0.38	13.25	4.80	4.45	0.49
10.70	1.34	1.03	0.40	13.30	4.83	4.47	0.47
10.75	1.37	1.05	0.42	13.35	4.84	4.49	0.45
10.80	1.39	1.07	0.43	13.40	4.86	4.51	0.44
10.85	1.41	1.10	0.46	13.45	4.88	4.53	0.41
10.90	1.43	1.12	0.47	13.50	4.90	4.55	0.40
10.95	1.46	1.14	0.49	13.55	4.91	4.56	0.37
11.00	1.48	1.16	0.51	13.60	4.93	4.58	0.36
11.05	1.51	1.19	0.55	13.65	4.94	4.59	0.35
11.10	1.54	1.22	0.58	13.70	4.96	4.61	0.34
11.15	1.57	1.25	0.61	13.75	4.97	4.62	0.33
11.20	1.60	1.28	0.65	13.80	4.99	4.64	0.33
11.25	1.63	1.31	0.69	13.85	5.00	4.65	0.32
11.30	1.67	1.35	0.72	13.90	5.02	4.66	0.32
11.35	1.70	1.38	0.76	13.95	5.03	4.68	0.31
11.40	1.74	1.42	0.79	14.00	5.05	4.69	0.31
11.45	1.78	1.46	0.83	14.05	5.06	4.71	0.30
11.50	1.82	1.50	0.85	14.10	5.07	4.72	0.30
11.55	1.89	1.56	1.04	14.15	5.08	4.73	0.29
11.60	1.95	1.62	1.22	14.20	5.10	4.74	0.29
11.65	2.01	1.68	1.33	14.25	5.11	4.76	0.28
11.70	2.08	1.75	1.39	14.30	5.12	4.77	0.28
11.75	2.17	1.84	1.61	14.35	5.13	4.78	0.27
11.80	2.26	1.93	1.81	14.40	5.15	4.79	0.27
11.85	2.38	2.05	2.18	14.45	5.16	4.80	0.26
11.90	2.51	2.17	2.50	14.50	5.17	4.82	0.26
11.95	2.72	2.39	3.37	14.55	5.18	4.83	0.25
12.00	2.94	2.60	4.16	14.60	5.19	4.84	0.25
12.05	3.30	2.96	5.66	14.65	5.20	4.85	0.24
12.10	3.66	3.31	**6.98**	14.70	5.21	4.86	0.24
12.15	3.79	3.44	**5.68**	14.75	5.22	4.87	0.23
12.20	3.91	3.56	4.03	14.80	5.23	4.88	0.23
12.25	4.00	3.65	3.01	14.85	5.24	4.89	0.22
12.30	4.09	3.74	2.38	14.90	5.25	4.90	0.21
12.35	4.16	3.81	1.94	14.95	5.26	4.91	0.21
12.40	4.22	3.87	1.64	15.00	5.27	4.92	0.20
12.45	4.28	3.93	1.49	15.05	5.28	4.92	0.20
12.50	4.35	4.00	1.42	15.10	5.29	4.93	0.19
12.55	4.39	4.04	1.21	15.15	5.29	4.94	0.19
12.60	4.43	4.08	1.03	15.20	5.30	4.95	0.19
12.65	4.47	4.11	0.92	15.25	5.31	4.96	0.19
12.70	4.50	4.15	0.87	15.30	5.32	4.97	0.19
12.75	4.54	4.19	0.82	15.35	5.33	4.97	0.19
12.80	4.57	4.22	0.78	15.40	5.34	4.98	0.18
12.85	4.60	4.25	0.74	15.45	5.34	4.99	0.18
12.90	4.63	4.28	0.71	15.50	5.35	5.00	0.18
12.95	4.66	4.31	0.67	15.55	5.36	5.01	0.18

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.37	5.01	0.18	18.20	5.70	5.35	0.11
15.65	5.38	5.02	0.18	18.25	5.71	5.35	0.11
15.70	5.38	5.03	0.18	18.30	5.71	5.36	0.11
15.75	5.39	5.04	0.17	18.35	5.72	5.36	0.11
15.80	5.40	5.05	0.17	18.40	5.72	5.37	0.11
15.85	5.41	5.05	0.17	18.45	5.73	5.37	0.11
15.90	5.42	5.06	0.17	18.50	5.73	5.37	0.11
15.95	5.42	5.07	0.17	18.55	5.73	5.38	0.11
16.00	5.43	5.08	0.17	18.60	5.74	5.38	0.11
16.05	5.44	5.08	0.17	18.65	5.74	5.39	0.11
16.10	5.45	5.09	0.17	18.70	5.75	5.39	0.11
16.15	5.45	5.10	0.16	18.75	5.75	5.40	0.11
16.20	5.46	5.11	0.16	18.80	5.76	5.40	0.11
16.25	5.47	5.11	0.16	18.85	5.76	5.41	0.10
16.30	5.47	5.12	0.16	18.90	5.77	5.41	0.10
16.35	5.48	5.13	0.16	18.95	5.77	5.42	0.10
16.40	5.49	5.13	0.16	19.00	5.78	5.42	0.10
16.45	5.50	5.14	0.16	19.05	5.78	5.43	0.10
16.50	5.50	5.15	0.15	19.10	5.79	5.43	0.10
16.55	5.51	5.15	0.15	19.15	5.79	5.44	0.10
16.60	5.52	5.16	0.15	19.20	5.80	5.44	0.10
16.65	5.52	5.17	0.15	19.25	5.80	5.45	0.10
16.70	5.53	5.17	0.15	19.30	5.81	5.45	0.10
16.75	5.54	5.18	0.15	19.35	5.81	5.45	0.10
16.80	5.54	5.19	0.15	19.40	5.81	5.46	0.10
16.85	5.55	5.19	0.14	19.45	5.82	5.46	0.10
16.90	5.56	5.20	0.14	19.50	5.82	5.47	0.10
16.95	5.56	5.21	0.14	19.55	5.83	5.47	0.10
17.00	5.57	5.21	0.14	19.60	5.83	5.48	0.10
17.05	5.57	5.22	0.14	19.65	5.84	5.48	0.10
17.10	5.58	5.23	0.14	19.70	5.84	5.49	0.10
17.15	5.59	5.23	0.14	19.75	5.85	5.49	0.10
17.20	5.59	5.24	0.14	19.80	5.85	5.50	0.10
17.25	5.60	5.24	0.13	19.85	5.85	5.50	0.10
17.30	5.60	5.25	0.13	19.90	5.86	5.50	0.10
17.35	5.61	5.26	0.13	19.95	5.86	5.51	0.10
17.40	5.62	5.26	0.13	20.00	5.87	5.51	0.10
17.45	5.62	5.27	0.13	20.05	5.87	5.52	0.10
17.50	5.63	5.27	0.13	20.10	5.88	5.52	0.10
17.55	5.63	5.28	0.13	20.15	5.88	5.53	0.10
17.60	5.64	5.28	0.12	20.20	5.89	5.53	0.10
17.65	5.64	5.29	0.12	20.25	5.89	5.53	0.10
17.70	5.65	5.29	0.12	20.30	5.89	5.54	0.10
17.75	5.66	5.30	0.12	20.35	5.90	5.54	0.09
17.80	5.66	5.31	0.12	20.40	5.90	5.55	0.09
17.85	5.67	5.31	0.12	20.45	5.91	5.55	0.09
17.90	5.67	5.32	0.12	20.50	5.91	5.56	0.09
17.95	5.68	5.32	0.11	20.55	5.92	5.56	0.09
18.00	5.68	5.33	0.11	20.60	5.92	5.56	0.09
18.05	5.69	5.33	0.11	20.65	5.92	5.57	0.09
18.10	5.69	5.34	0.11	20.70	5.93	5.57	0.09
18.15	5.70	5.34	0.11	20.75	5.93	5.58	0.09

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.94	5.58	0.09	23.40	6.13	5.77	0.07
20.85	5.94	5.58	0.09	23.45	6.13	5.78	0.07
20.90	5.94	5.59	0.09	23.50	6.14	5.78	0.07
20.95	5.95	5.59	0.09	23.55	6.14	5.78	0.07
21.00	5.95	5.60	0.09	23.60	6.14	5.79	0.07
21.05	5.96	5.60	0.09	23.65	6.15	5.79	0.07
21.10	5.96	5.60	0.09	23.70	6.15	5.79	0.07
21.15	5.96	5.61	0.09	23.75	6.15	5.80	0.07
21.20	5.97	5.61	0.09	23.80	6.16	5.80	0.07
21.25	5.97	5.62	0.09	23.85	6.16	5.80	0.07
21.30	5.98	5.62	0.09	23.90	6.16	5.81	0.07
21.35	5.98	5.62	0.09	23.95	6.17	5.81	0.08
21.40	5.98	5.63	0.09	24.00	**6.17**	**5.81**	0.08
21.45	5.99	5.63	0.09				
21.50	5.99	5.64	0.09				
21.55	6.00	5.64	0.09				
21.60	6.00	5.64	0.09				
21.65	6.00	5.65	0.09				
21.70	6.01	5.65	0.09				
21.75	6.01	5.66	0.09				
21.80	6.02	5.66	0.09				
21.85	6.02	5.66	0.08				
21.90	6.02	5.67	0.08				
21.95	6.03	5.67	0.08				
22.00	6.03	5.67	0.08				
22.05	6.03	5.68	0.08				
22.10	6.04	5.68	0.08				
22.15	6.04	5.69	0.08				
22.20	6.05	5.69	0.08				
22.25	6.05	5.69	0.08				
22.30	6.05	5.70	0.08				
22.35	6.06	5.70	0.08				
22.40	6.06	5.70	0.08				
22.45	6.06	5.71	0.08				
22.50	6.07	5.71	0.08				
22.55	6.07	5.71	0.08				
22.60	6.07	5.72	0.08				
22.65	6.08	5.72	0.08				
22.70	6.08	5.73	0.08				
22.75	6.09	5.73	0.08				
22.80	6.09	5.73	0.08				
22.85	6.09	5.74	0.08				
22.90	6.10	5.74	0.08				
22.95	6.10	5.74	0.08				
23.00	6.10	5.75	0.08				
23.05	6.11	5.75	0.08				
23.10	6.11	5.75	0.08				
23.15	6.11	5.76	0.08				
23.20	6.12	5.76	0.08				
23.25	6.12	5.76	0.07				
23.30	6.12	5.77	0.07				
23.35	6.13	5.77	0.07				

Summary for Subcatchment EDA1A PERV: EDA-1A PERV

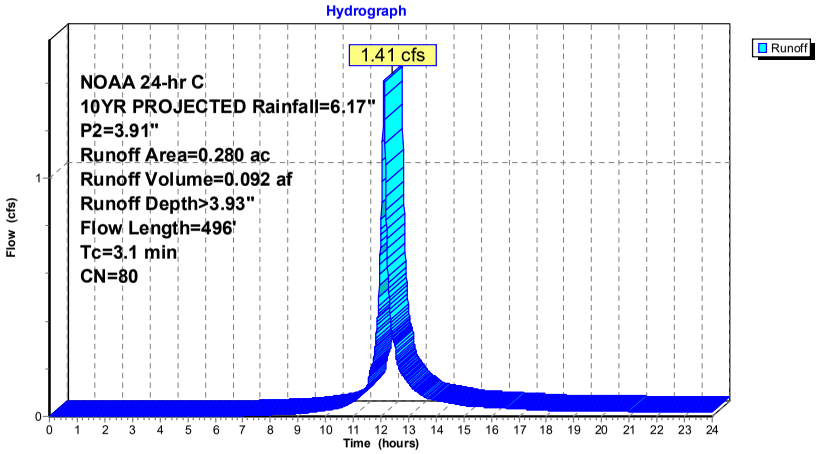
Runoff = 1.41 cfs @ 12.11 hrs, Volume= 0.092 af, Depth> 3.93"
Routed to Link E1A : E1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR PROJECTED Rainfall=6.17", P2=3.91"

Area (ac)	CN	Description
0.280	80	>75% Grass cover, Good, HSG D
0.280		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0100	1.15		**Sheet Flow, paved** Smooth surfaces n= 0.011 P2= 3.91"
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP-2 Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
3.1	496	Total			

Subcatchment EDA1A PERV: EDA-1A PERV



Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.19	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.19	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.20	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.20	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.21	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.21	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.21	0.00	0.00
0.40	0.03	0.00	0.00	3.00	0.22	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.22	0.00	0.00
0.50	0.03	0.00	0.00	3.10	0.23	0.00	0.00
0.55	0.04	0.00	0.00	3.15	0.23	0.00	0.00
0.60	0.04	0.00	0.00	3.20	0.23	0.00	0.00
0.65	0.04	0.00	0.00	3.25	0.24	0.00	0.00
0.70	0.05	0.00	0.00	3.30	0.24	0.00	0.00
0.75	0.05	0.00	0.00	3.35	0.25	0.00	0.00
0.80	0.05	0.00	0.00	3.40	0.25	0.00	0.00
0.85	0.06	0.00	0.00	3.45	0.25	0.00	0.00
0.90	0.06	0.00	0.00	3.50	0.26	0.00	0.00
0.95	0.06	0.00	0.00	3.55	0.26	0.00	0.00
1.00	0.07	0.00	0.00	3.60	0.27	0.00	0.00
1.05	0.07	0.00	0.00	3.65	0.27	0.00	0.00
1.10	0.07	0.00	0.00	3.70	0.28	0.00	0.00
1.15	0.08	0.00	0.00	3.75	0.28	0.00	0.00
1.20	0.08	0.00	0.00	3.80	0.28	0.00	0.00
1.25	0.08	0.00	0.00	3.85	0.29	0.00	0.00
1.30	0.09	0.00	0.00	3.90	0.29	0.00	0.00
1.35	0.09	0.00	0.00	3.95	0.30	0.00	0.00
1.40	0.10	0.00	0.00	4.00	0.30	0.00	0.00
1.45	0.10	0.00	0.00	4.05	0.31	0.00	0.00
1.50	0.10	0.00	0.00	4.10	0.31	0.00	0.00
1.55	0.11	0.00	0.00	4.15	0.32	0.00	0.00
1.60	0.11	0.00	0.00	4.20	0.32	0.00	0.00
1.65	0.11	0.00	0.00	4.25	0.32	0.00	0.00
1.70	0.12	0.00	0.00	4.30	0.33	0.00	0.00
1.75	0.12	0.00	0.00	4.35	0.33	0.00	0.00
1.80	0.12	0.00	0.00	4.40	0.34	0.00	0.00
1.85	0.13	0.00	0.00	4.45	0.34	0.00	0.00
1.90	0.13	0.00	0.00	4.50	0.35	0.00	0.00
1.95	0.14	0.00	0.00	4.55	0.35	0.00	0.00
2.00	0.14	0.00	0.00	4.60	0.36	0.00	0.00
2.05	0.14	0.00	0.00	4.65	0.36	0.00	0.00
2.10	0.15	0.00	0.00	4.70	0.36	0.00	0.00
2.15	0.15	0.00	0.00	4.75	0.37	0.00	0.00
2.20	0.15	0.00	0.00	4.80	0.37	0.00	0.00
2.25	0.16	0.00	0.00	4.85	0.38	0.00	0.00
2.30	0.16	0.00	0.00	4.90	0.38	0.00	0.00
2.35	0.17	0.00	0.00	4.95	0.39	0.00	0.00
2.40	0.17	0.00	0.00	5.00	0.39	0.00	0.00
2.45	0.17	0.00	0.00	5.05	0.40	0.00	0.00
2.50	0.18	0.00	0.00	5.10	0.40	0.00	0.00
2.55	0.18	0.00	0.00	5.15	0.41	0.00	0.00

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.41	0.00	0.00	7.80	0.71	0.02	0.01
5.25	0.42	0.00	0.00	7.85	0.72	0.02	0.01
5.30	0.42	0.00	0.00	7.90	0.72	0.02	0.01
5.35	0.43	0.00	0.00	7.95	0.73	0.02	0.01
5.40	0.43	0.00	0.00	8.00	0.74	0.02	0.01
5.45	0.44	0.00	0.00	8.05	0.75	0.02	0.01
5.50	0.44	0.00	0.00	8.10	0.75	0.02	0.01
5.55	0.44	0.00	0.00	8.15	0.76	0.02	0.01
5.60	0.45	0.00	0.00	8.20	0.77	0.03	0.01
5.65	0.45	0.00	0.00	8.25	0.78	0.03	0.01
5.70	0.46	0.00	0.00	8.30	0.79	0.03	0.01
5.75	0.46	0.00	0.00	8.35	0.79	0.03	0.01
5.80	0.47	0.00	0.00	8.40	0.80	0.03	0.01
5.85	0.47	0.00	0.00	8.45	0.81	0.03	0.01
5.90	0.48	0.00	0.00	8.50	0.82	0.04	0.01
5.95	0.48	0.00	0.00	8.55	0.83	0.04	0.01
6.00	0.49	0.00	0.00	8.60	0.83	0.04	0.01
6.05	0.49	0.00	0.00	8.65	0.84	0.04	0.01
6.10	0.50	0.00	0.00	8.70	0.85	0.04	0.01
6.15	0.50	0.00	0.00	8.75	0.86	0.04	0.01
6.20	0.51	0.00	0.00	8.80	0.87	0.05	0.01
6.25	0.51	0.00	0.00	8.85	0.88	0.05	0.01
6.30	0.52	0.00	0.00	8.90	0.88	0.05	0.01
6.35	0.53	0.00	0.00	8.95	0.89	0.05	0.01
6.40	0.53	0.00	0.00	9.00	0.90	0.06	0.01
6.45	0.54	0.00	0.00	9.05	0.91	0.06	0.01
6.50	0.54	0.00	0.00	9.10	0.92	0.06	0.01
6.55	0.55	0.00	0.00	9.15	0.93	0.06	0.01
6.60	0.55	0.00	0.00	9.20	0.94	0.07	0.01
6.65	0.56	0.00	0.00	9.25	0.95	0.07	0.01
6.70	0.57	0.00	0.00	9.30	0.96	0.07	0.02
6.75	0.57	0.00	0.00	9.35	0.97	0.07	0.02
6.80	0.58	0.00	0.00	9.40	0.98	0.08	0.02
6.85	0.58	0.00	0.00	9.45	0.99	0.08	0.02
6.90	0.59	0.00	0.00	9.50	1.00	0.08	0.02
6.95	0.60	0.00	0.00	9.55	1.01	0.09	0.02
7.00	0.60	0.00	0.00	9.60	1.02	0.09	0.02
7.05	0.61	0.00	0.00	9.65	1.04	0.09	0.02
7.10	0.61	0.01	0.00	9.70	1.05	0.10	0.02
7.15	0.62	0.01	0.00	9.75	1.06	0.10	0.02
7.20	0.63	0.01	0.00	9.80	1.07	0.11	0.02
7.25	0.63	0.01	0.00	9.85	1.09	0.11	0.02
7.30	0.64	0.01	0.00	9.90	1.10	0.12	0.02
7.35	0.65	0.01	0.00	9.95	1.11	0.12	0.03
7.40	0.65	0.01	0.00	10.00	1.12	0.12	0.03
7.45	0.66	0.01	0.00	10.05	1.14	0.13	0.03
7.50	0.67	0.01	0.00	10.10	1.15	0.14	0.03
7.55	0.67	0.01	0.00	10.15	1.17	0.14	0.03
7.60	0.68	0.01	0.00	10.20	1.18	0.15	0.03
7.65	0.69	0.01	0.01	10.25	1.20	0.15	0.03
7.70	0.70	0.01	0.01	10.30	1.21	0.16	0.03
7.75	0.70	0.02	0.01	10.35	1.23	0.16	0.03

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.24	0.17	0.03	13.00	4.69	2.62	0.14
10.45	1.26	0.18	0.03	13.05	4.71	2.64	0.13
10.50	1.27	0.18	0.04	13.10	4.74	2.67	0.12
10.55	1.29	0.19	0.04	13.15	4.76	2.69	0.12
10.60	1.31	0.20	0.04	13.20	4.78	2.70	0.11
10.65	1.33	0.20	0.04	13.25	4.80	2.72	0.11
10.70	1.34	0.21	0.05	13.30	4.83	2.74	0.10
10.75	1.37	0.22	0.05	13.35	4.84	2.76	0.10
10.80	1.39	0.23	0.05	13.40	4.86	2.77	0.10
10.85	1.41	0.24	0.05	13.45	4.88	2.79	0.09
10.90	1.43	0.25	0.06	13.50	4.90	2.80	0.09
10.95	1.46	0.26	0.06	13.55	4.91	2.82	0.08
11.00	1.48	0.28	0.06	13.60	4.93	2.83	0.08
11.05	1.51	0.29	0.07	13.65	4.94	2.84	0.08
11.10	1.54	0.30	0.07	13.70	4.96	2.86	0.08
11.15	1.57	0.32	0.08	13.75	4.97	2.87	0.07
11.20	1.60	0.34	0.09	13.80	4.99	2.88	0.07
11.25	1.63	0.35	0.09	13.85	5.00	2.90	0.07
11.30	1.67	0.37	0.10	13.90	5.02	2.91	0.07
11.35	1.70	0.39	0.11	13.95	5.03	2.92	0.07
11.40	1.74	0.41	0.11	14.00	5.05	2.93	0.07
11.45	1.78	0.44	0.12	14.05	5.06	2.94	0.07
11.50	1.82	0.46	0.12	14.10	5.07	2.96	0.07
11.55	1.89	0.49	0.15	14.15	5.08	2.97	0.07
11.60	1.95	0.53	0.18	14.20	5.10	2.98	0.06
11.65	2.01	0.57	0.20	14.25	5.11	2.99	0.06
11.70	2.08	0.61	0.22	14.30	5.12	3.00	0.06
11.75	2.17	0.67	0.26	14.35	5.13	3.01	0.06
11.80	2.26	0.73	0.30	14.40	5.15	3.02	0.06
11.85	2.38	0.81	0.37	14.45	5.16	3.03	0.06
11.90	2.51	0.90	0.43	14.50	5.17	3.04	0.06
11.95	2.72	1.05	0.60	14.55	5.18	3.05	0.06
12.00	2.94	1.21	0.76	14.60	5.19	3.06	0.06
12.05	3.30	1.48	1.07	14.65	5.20	3.07	0.05
12.10	3.66	1.76	**1.37**	14.70	5.21	3.08	0.05
12.15	3.79	1.87	**1.14**	14.75	5.22	3.09	0.05
12.20	3.91	1.97	0.82	14.80	5.23	3.10	0.05
12.25	4.00	2.04	0.62	14.85	5.24	3.10	0.05
12.30	4.09	2.12	0.50	14.90	5.25	3.11	0.05
12.35	4.16	2.17	0.41	14.95	5.26	3.12	0.05
12.40	4.22	2.23	0.35	15.00	5.27	3.13	0.05
12.45	4.28	2.28	0.32	15.05	5.28	3.14	0.04
12.50	4.35	2.33	0.30	15.10	5.29	3.14	0.04
12.55	4.39	2.37	0.26	15.15	5.29	3.15	0.04
12.60	4.43	2.40	0.22	15.20	5.30	3.16	0.04
12.65	4.47	2.43	0.20	15.25	5.31	3.17	0.04
12.70	4.50	2.46	0.19	15.30	5.32	3.17	0.04
12.75	4.54	2.49	0.18	15.35	5.33	3.18	0.04
12.80	4.57	2.52	0.17	15.40	5.34	3.19	0.04
12.85	4.60	2.55	0.16	15.45	5.34	3.20	0.04
12.90	4.63	2.58	0.16	15.50	5.35	3.20	0.04
12.95	4.66	2.60	0.15	15.55	5.36	3.21	0.04

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.37	3.22	0.04	18.20	5.70	3.51	0.02
15.65	5.38	3.22	0.04	18.25	5.71	3.52	0.02
15.70	5.38	3.23	0.04	18.30	5.71	3.52	0.02
15.75	5.39	3.24	0.04	18.35	5.72	3.53	0.02
15.80	5.40	3.24	0.04	18.40	5.72	3.53	0.02
15.85	5.41	3.25	0.04	18.45	5.73	3.53	0.02
15.90	5.42	3.26	0.04	18.50	5.73	3.54	0.02
15.95	5.42	3.27	0.04	18.55	5.73	3.54	0.02
16.00	5.43	3.27	0.04	18.60	5.74	3.55	0.02
16.05	5.44	3.28	0.04	18.65	5.74	3.55	0.02
16.10	5.45	3.29	0.04	18.70	5.75	3.56	0.02
16.15	5.45	3.29	0.04	18.75	5.75	3.56	0.02
16.20	5.46	3.30	0.04	18.80	5.76	3.56	0.02
16.25	5.47	3.30	0.04	18.85	5.76	3.57	0.02
16.30	5.47	3.31	0.04	18.90	5.77	3.57	0.02
16.35	5.48	3.32	0.04	18.95	5.77	3.58	0.02
16.40	5.49	3.32	0.04	19.00	5.78	3.58	0.02
16.45	5.50	3.33	0.04	19.05	5.78	3.59	0.02
16.50	5.50	3.34	0.03	19.10	5.79	3.59	0.02
16.55	5.51	3.34	0.03	19.15	5.79	3.59	0.02
16.60	5.52	3.35	0.03	19.20	5.80	3.60	0.02
16.65	5.52	3.35	0.03	19.25	5.80	3.60	0.02
16.70	5.53	3.36	0.03	19.30	5.81	3.61	0.02
16.75	5.54	3.37	0.03	19.35	5.81	3.61	0.02
16.80	5.54	3.37	0.03	19.40	5.81	3.61	0.02
16.85	5.55	3.38	0.03	19.45	5.82	3.62	0.02
16.90	5.56	3.38	0.03	19.50	5.82	3.62	0.02
16.95	5.56	3.39	0.03	19.55	5.83	3.63	0.02
17.00	5.57	3.39	0.03	19.60	5.83	3.63	0.02
17.05	5.57	3.40	0.03	19.65	5.84	3.63	0.02
17.10	5.58	3.41	0.03	19.70	5.84	3.64	0.02
17.15	5.59	3.41	0.03	19.75	5.85	3.64	0.02
17.20	5.59	3.42	0.03	19.80	5.85	3.65	0.02
17.25	5.60	3.42	0.03	19.85	5.85	3.65	0.02
17.30	5.60	3.43	0.03	19.90	5.86	3.65	0.02
17.35	5.61	3.43	0.03	19.95	5.86	3.66	0.02
17.40	5.62	3.44	0.03	20.00	5.87	3.66	0.02
17.45	5.62	3.44	0.03	20.05	5.87	3.67	0.02
17.50	5.63	3.45	0.03	20.10	5.88	3.67	0.02
17.55	5.63	3.45	0.03	20.15	5.88	3.67	0.02
17.60	5.64	3.46	0.03	20.20	5.89	3.68	0.02
17.65	5.64	3.46	0.03	20.25	5.89	3.68	0.02
17.70	5.65	3.47	0.03	20.30	5.89	3.69	0.02
17.75	5.66	3.47	0.03	20.35	5.90	3.69	0.02
17.80	5.66	3.48	0.03	20.40	5.90	3.69	0.02
17.85	5.67	3.48	0.03	20.45	5.91	3.70	0.02
17.90	5.67	3.49	0.03	20.50	5.91	3.70	0.02
17.95	5.68	3.49	0.03	20.55	5.92	3.70	0.02
18.00	5.68	3.49	0.03	20.60	5.92	3.71	0.02
18.05	5.69	3.50	0.03	20.65	5.92	3.71	0.02
18.10	5.69	3.50	0.03	20.70	5.93	3.72	0.02
18.15	5.70	3.51	0.03	20.75	5.93	3.72	0.02

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.94	3.72	0.02	23.40	6.13	3.90	0.02
20.85	5.94	3.73	0.02	23.45	6.13	3.90	0.02
20.90	5.94	3.73	0.02	23.50	6.14	3.90	0.02
20.95	5.95	3.73	0.02	23.55	6.14	3.91	0.02
21.00	5.95	3.74	0.02	23.60	6.14	3.91	0.02
21.05	5.96	3.74	0.02	23.65	6.15	3.91	0.02
21.10	5.96	3.75	0.02	23.70	6.15	3.92	0.02
21.15	5.96	3.75	0.02	23.75	6.15	3.92	0.02
21.20	5.97	3.75	0.02	23.80	6.16	3.92	0.02
21.25	5.97	3.76	0.02	23.85	6.16	3.92	0.02
21.30	5.98	3.76	0.02	23.90	6.16	3.93	0.02
21.35	5.98	3.76	0.02	23.95	6.17	3.93	0.02
21.40	5.98	3.77	0.02	24.00	**6.17**	**3.93**	0.02
21.45	5.99	3.77	0.02				
21.50	5.99	3.77	0.02				
21.55	6.00	3.78	0.02				
21.60	6.00	3.78	0.02				
21.65	6.00	3.78	0.02				
21.70	6.01	3.79	0.02				
21.75	6.01	3.79	0.02				
21.80	6.02	3.80	0.02				
21.85	6.02	3.80	0.02				
21.90	6.02	3.80	0.02				
21.95	6.03	3.81	0.02				
22.00	6.03	3.81	0.02				
22.05	6.03	3.81	0.02				
22.10	6.04	3.82	0.02				
22.15	6.04	3.82	0.02				
22.20	6.05	3.82	0.02				
22.25	6.05	3.83	0.02				
22.30	6.05	3.83	0.02				
22.35	6.06	3.83	0.02				
22.40	6.06	3.84	0.02				
22.45	6.06	3.84	0.02				
22.50	6.07	3.84	0.02				
22.55	6.07	3.85	0.02				
22.60	6.07	3.85	0.02				
22.65	6.08	3.85	0.02				
22.70	6.08	3.85	0.02				
22.75	6.09	3.86	0.02				
22.80	6.09	3.86	0.02				
22.85	6.09	3.86	0.02				
22.90	6.10	3.87	0.02				
22.95	6.10	3.87	0.02				
23.00	6.10	3.87	0.02				
23.05	6.11	3.88	0.02				
23.10	6.11	3.88	0.02				
23.15	6.11	3.88	0.02				
23.20	6.12	3.89	0.02				
23.25	6.12	3.89	0.02				
23.30	6.12	3.89	0.02				
23.35	6.13	3.90	0.02				

Summary for Subcatchment EDA1B IMP: EDA1B IMP

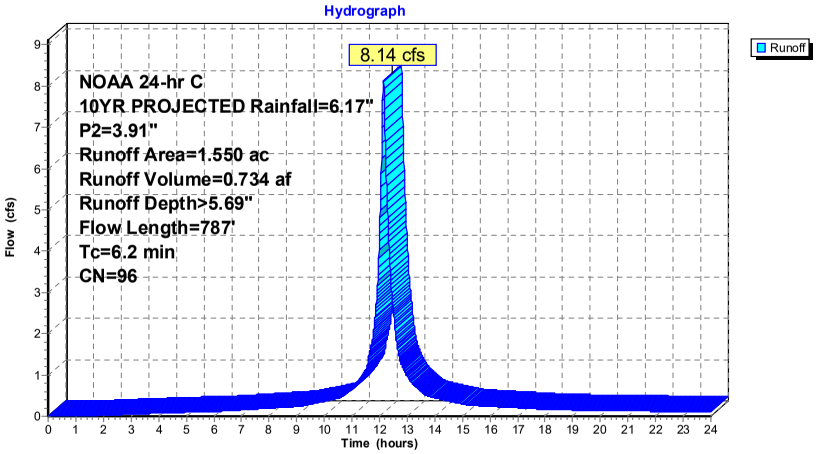
Runoff = 8.14 cfs @ 12.14 hrs, Volume= 0.734 af, Depth> 5.69"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR PROJECTED Rainfall=6.17", P2=3.91"

	Area (ac)	CN	Description
	0.940	96	Gravel surface, HSG A
	0.310	96	Gravel surface, HSG D
*	0.190	98	Impervious vehicular
*	0.110	98	Impervious non vehicular
	1.550	96	Weighted Average
	1.250		80.65% Pervious Area
	0.300		19.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0100	1.15		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
1.0	93	0.0100	1.50		**Shallow Concentrated Flow, Paved** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.9	93	0.0011	1.71	3.02	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
6.2	787	Total			

Subcatchment EDA1B IMP: EDA1B IMP



Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.02	0.04
0.05	0.00	0.00	0.00	2.65	0.19	0.02	0.04
0.10	0.01	0.00	0.00	2.70	0.19	0.02	0.04
0.15	0.01	0.00	0.00	2.75	0.20	0.02	0.04
0.20	0.01	0.00	0.00	2.80	0.20	0.03	0.04
0.25	0.02	0.00	0.00	2.85	0.21	0.03	0.05
0.30	0.02	0.00	0.00	2.90	0.21	0.03	0.05
0.35	0.02	0.00	0.00	2.95	0.21	0.03	0.05
0.40	0.03	0.00	0.00	3.00	0.22	0.03	0.05
0.45	0.03	0.00	0.00	3.05	0.22	0.03	0.05
0.50	0.03	0.00	0.00	3.10	0.23	0.04	0.05
0.55	0.04	0.00	0.00	3.15	0.23	0.04	0.05
0.60	0.04	0.00	0.00	3.20	0.23	0.04	0.06
0.65	0.04	0.00	0.00	3.25	0.24	0.04	0.06
0.70	0.05	0.00	0.00	3.30	0.24	0.04	0.06
0.75	0.05	0.00	0.00	3.35	0.25	0.05	0.06
0.80	0.05	0.00	0.00	3.40	0.25	0.05	0.06
0.85	0.06	0.00	0.00	3.45	0.25	0.05	0.06
0.90	0.06	0.00	0.00	3.50	0.26	0.05	0.06
0.95	0.06	0.00	0.00	3.55	0.26	0.05	0.06
1.00	0.07	0.00	0.00	3.60	0.27	0.06	0.07
1.05	0.07	0.00	0.00	3.65	0.27	0.06	0.07
1.10	0.07	0.00	0.00	3.70	0.28	0.06	0.07
1.15	0.08	0.00	0.00	3.75	0.28	0.06	0.07
1.20	0.08	0.00	0.00	3.80	0.28	0.07	0.07
1.25	0.08	0.00	0.00	3.85	0.29	0.07	0.07
1.30	0.09	0.00	0.00	3.90	0.29	0.07	0.07
1.35	0.09	0.00	0.00	3.95	0.30	0.07	0.07
1.40	0.10	0.00	0.00	4.00	0.30	0.08	0.07
1.45	0.10	0.00	0.00	4.05	0.31	0.08	0.08
1.50	0.10	0.00	0.00	4.10	0.31	0.08	0.08
1.55	0.11	0.00	0.01	4.15	0.32	0.08	0.08
1.60	0.11	0.00	0.01	4.20	0.32	0.09	0.08
1.65	0.11	0.00	0.01	4.25	0.32	0.09	0.08
1.70	0.12	0.00	0.01	4.30	0.33	0.09	0.08
1.75	0.12	0.00	0.01	4.35	0.33	0.09	0.08
1.80	0.12	0.00	0.01	4.40	0.34	0.10	0.08
1.85	0.13	0.00	0.02	4.45	0.34	0.10	0.08
1.90	0.13	0.01	0.02	4.50	0.35	0.10	0.09
1.95	0.14	0.01	0.02	4.55	0.35	0.10	0.09
2.00	0.14	0.01	0.02	4.60	0.36	0.11	0.09
2.05	0.14	0.01	0.02	4.65	0.36	0.11	0.09
2.10	0.15	0.01	0.02	4.70	0.36	0.11	0.09
2.15	0.15	0.01	0.03	4.75	0.37	0.12	0.09
2.20	0.15	0.01	0.03	4.80	0.37	0.12	0.09
2.25	0.16	0.01	0.03	4.85	0.38	0.12	0.09
2.30	0.16	0.01	0.03	4.90	0.38	0.13	0.09
2.35	0.17	0.01	0.03	4.95	0.39	0.13	0.09
2.40	0.17	0.01	0.03	5.00	0.39	0.13	0.09
2.45	0.17	0.02	0.03	5.05	0.40	0.13	0.10
2.50	0.18	0.02	0.04	5.10	0.40	0.14	0.10
2.55	0.18	0.02	0.04	5.15	0.41	0.14	0.10

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.41	0.14	0.10	7.80	0.71	0.38	0.18
5.25	0.42	0.15	0.10	7.85	0.72	0.38	0.19
5.30	0.42	0.15	0.10	7.90	0.72	0.39	0.19
5.35	0.43	0.15	0.10	7.95	0.73	0.39	0.19
5.40	0.43	0.16	0.10	8.00	0.74	0.40	0.19
5.45	0.44	0.16	0.10	8.05	0.75	0.41	0.19
5.50	0.44	0.16	0.10	8.10	0.75	0.41	0.20
5.55	0.44	0.17	0.11	8.15	0.76	0.42	0.20
5.60	0.45	0.17	0.11	8.20	0.77	0.43	0.20
5.65	0.45	0.17	0.11	8.25	0.78	0.43	0.20
5.70	0.46	0.18	0.11	8.30	0.79	0.44	0.20
5.75	0.46	0.18	0.11	8.35	0.79	0.45	0.21
5.80	0.47	0.19	0.11	8.40	0.80	0.45	0.21
5.85	0.47	0.19	0.11	8.45	0.81	0.46	0.21
5.90	0.48	0.19	0.11	8.50	0.82	0.47	0.21
5.95	0.48	0.20	0.11	8.55	0.83	0.48	0.22
6.00	0.49	0.20	0.11	8.60	0.83	0.48	0.22
6.05	0.49	0.20	0.11	8.65	0.84	0.49	0.22
6.10	0.50	0.21	0.12	8.70	0.85	0.50	0.22
6.15	0.50	0.21	0.12	8.75	0.86	0.50	0.22
6.20	0.51	0.22	0.12	8.80	0.87	0.51	0.23
6.25	0.51	0.22	0.12	8.85	0.88	0.52	0.23
6.30	0.52	0.22	0.12	8.90	0.88	0.53	0.23
6.35	0.53	0.23	0.12	8.95	0.89	0.53	0.23
6.40	0.53	0.23	0.13	9.00	0.90	0.54	0.23
6.45	0.54	0.24	0.13	9.05	0.91	0.55	0.24
6.50	0.54	0.24	0.13	9.10	0.92	0.56	0.24
6.55	0.55	0.25	0.13	9.15	0.93	0.57	0.25
6.60	0.55	0.25	0.13	9.20	0.94	0.57	0.25
6.65	0.56	0.25	0.14	9.25	0.95	0.58	0.26
6.70	0.57	0.26	0.14	9.30	0.96	0.59	0.27
6.75	0.57	0.26	0.14	9.35	0.97	0.60	0.27
6.80	0.58	0.27	0.14	9.40	0.98	0.61	0.28
6.85	0.58	0.27	0.14	9.45	0.99	0.62	0.29
6.90	0.59	0.28	0.15	9.50	1.00	0.63	0.29
6.95	0.60	0.28	0.15	9.55	1.01	0.64	0.30
7.00	0.60	0.29	0.15	9.60	1.02	0.65	0.31
7.05	0.61	0.29	0.15	9.65	1.04	0.66	0.31
7.10	0.61	0.30	0.15	9.70	1.05	0.67	0.32
7.15	0.62	0.30	0.16	9.75	1.06	0.69	0.33
7.20	0.63	0.31	0.16	9.80	1.07	0.70	0.34
7.25	0.63	0.31	0.16	9.85	1.09	0.71	0.34
7.30	0.64	0.32	0.16	9.90	1.10	0.72	0.35
7.35	0.65	0.32	0.16	9.95	1.11	0.73	0.36
7.40	0.65	0.33	0.17	10.00	1.12	0.74	0.37
7.45	0.66	0.34	0.17	10.05	1.14	0.76	0.37
7.50	0.67	0.34	0.17	10.10	1.15	0.77	0.38
7.55	0.67	0.35	0.17	10.15	1.17	0.78	0.39
7.60	0.68	0.35	0.18	10.20	1.18	0.80	0.39
7.65	0.69	0.36	0.18	10.25	1.20	0.81	0.40
7.70	0.70	0.36	0.18	10.30	1.21	0.82	0.41
7.75	0.70	0.37	0.18	10.35	1.23	0.84	0.42

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.24	0.85	0.42	13.00	4.69	4.22	0.98
10.45	1.26	0.87	0.43	13.05	4.71	4.25	0.93
10.50	1.27	0.88	0.44	13.10	4.74	4.27	0.87
10.55	1.29	0.90	0.45	13.15	4.76	4.29	0.83
10.60	1.31	0.91	0.47	13.20	4.78	4.32	0.78
10.65	1.33	0.93	0.49	13.25	4.80	4.34	0.75
10.70	1.34	0.95	0.51	13.30	4.83	4.36	0.72
10.75	1.37	0.97	0.53	13.35	4.84	4.38	0.69
10.80	1.39	0.99	0.56	13.40	4.86	4.40	0.66
10.85	1.41	1.01	0.58	13.45	4.88	4.41	0.63
10.90	1.43	1.03	0.61	13.50	4.90	4.43	0.60
10.95	1.46	1.05	0.64	13.55	4.91	4.45	0.57
11.00	1.48	1.08	0.66	13.60	4.93	4.46	0.54
11.05	1.51	1.10	0.69	13.65	4.94	4.48	0.52
11.10	1.54	1.13	0.74	13.70	4.96	4.49	0.50
11.15	1.57	1.16	0.78	13.75	4.97	4.51	0.49
11.20	1.60	1.19	0.82	13.80	4.99	4.52	0.48
11.25	1.63	1.22	0.87	13.85	5.00	4.54	0.47
11.30	1.67	1.25	0.92	13.90	5.02	4.55	0.46
11.35	1.70	1.29	0.97	13.95	5.03	4.56	0.45
11.40	1.74	1.33	1.02	14.00	5.05	4.58	0.44
11.45	1.78	1.37	1.07	14.05	5.06	4.59	0.44
11.50	1.82	1.40	1.11	14.10	5.07	4.60	0.43
11.55	1.89	1.46	1.20	14.15	5.08	4.62	0.42
11.60	1.95	1.52	1.41	14.20	5.10	4.63	0.41
11.65	2.01	1.59	1.59	14.25	5.11	4.64	0.41
11.70	2.08	1.65	1.72	14.30	5.12	4.65	0.40
11.75	2.17	1.74	1.88	14.35	5.13	4.67	0.39
11.80	2.26	1.83	2.15	14.40	5.15	4.68	0.38
11.85	2.38	1.95	2.44	14.45	5.16	4.69	0.38
11.90	2.51	2.07	2.89	14.50	5.17	4.70	0.37
11.95	2.72	2.28	3.43	14.55	5.18	4.71	0.36
12.00	2.94	2.49	4.44	14.60	5.19	4.72	0.36
12.05	3.30	2.85	5.55	14.65	5.20	4.73	0.35
12.10	3.66	3.20	**7.34**	14.70	5.21	4.74	0.34
12.15	3.79	3.33	**8.10**	14.75	5.22	4.75	0.33
12.20	3.91	3.45	6.91	14.80	5.23	4.76	0.33
12.25	4.00	3.54	5.80	14.85	5.24	4.77	0.32
12.30	4.09	3.63	4.82	14.90	5.25	4.78	0.31
12.35	4.16	3.70	4.08	14.95	5.26	4.79	0.31
12.40	4.22	3.76	3.40	15.00	5.27	4.80	0.30
12.45	4.28	3.82	2.90	15.05	5.28	4.81	0.29
12.50	4.35	3.88	2.54	15.10	5.29	4.82	0.28
12.55	4.39	3.92	2.24	15.15	5.29	4.83	0.28
12.60	4.43	3.96	1.91	15.20	5.30	4.83	0.27
12.65	4.47	4.00	1.66	15.25	5.31	4.84	0.27
12.70	4.50	4.04	1.48	15.30	5.32	4.85	0.27
12.75	4.54	4.07	1.35	15.35	5.33	4.86	0.26
12.80	4.57	4.11	1.25	15.40	5.34	4.87	0.26
12.85	4.60	4.14	1.17	15.45	5.34	4.88	0.26
12.90	4.63	4.17	1.10	15.50	5.35	4.88	0.26
12.95	4.66	4.20	1.04	15.55	5.36	4.89	0.26

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.37	4.90	0.25	18.20	5.70	5.23	0.16
15.65	5.38	4.91	0.25	18.25	5.71	5.23	0.15
15.70	5.38	4.92	0.25	18.30	5.71	5.24	0.15
15.75	5.39	4.92	0.25	18.35	5.72	5.24	0.15
15.80	5.40	4.93	0.25	18.40	5.72	5.25	0.15
15.85	5.41	4.94	0.24	18.45	5.73	5.25	0.15
15.90	5.42	4.95	0.24	18.50	5.73	5.26	0.15
15.95	5.42	4.95	0.24	18.55	5.73	5.26	0.15
16.00	5.43	4.96	0.24	18.60	5.74	5.27	0.15
16.05	5.44	4.97	0.24	18.65	5.74	5.27	0.15
16.10	5.45	4.98	0.23	18.70	5.75	5.28	0.15
16.15	5.45	4.98	0.23	18.75	5.75	5.28	0.15
16.20	5.46	4.99	0.23	18.80	5.76	5.29	0.15
16.25	5.47	5.00	0.23	18.85	5.76	5.29	0.15
16.30	5.47	5.00	0.23	18.90	5.77	5.30	0.15
16.35	5.48	5.01	0.23	18.95	5.77	5.30	0.15
16.40	5.49	5.02	0.22	19.00	5.78	5.31	0.15
16.45	5.50	5.03	0.22	19.05	5.78	5.31	0.15
16.50	5.50	5.03	0.22	19.10	5.79	5.32	0.15
16.55	5.51	5.04	0.22	19.15	5.79	5.32	0.15
16.60	5.52	5.05	0.22	19.20	5.80	5.32	0.15
16.65	5.52	5.05	0.21	19.25	5.80	5.33	0.14
16.70	5.53	5.06	0.21	19.30	5.81	5.33	0.14
16.75	5.54	5.07	0.21	19.35	5.81	5.34	0.14
16.80	5.54	5.07	0.21	19.40	5.81	5.34	0.14
16.85	5.55	5.08	0.21	19.45	5.82	5.35	0.14
16.90	5.56	5.09	0.20	19.50	5.82	5.35	0.14
16.95	5.56	5.09	0.20	19.55	5.83	5.36	0.14
17.00	5.57	5.10	0.20	19.60	5.83	5.36	0.14
17.05	5.57	5.10	0.20	19.65	5.84	5.37	0.14
17.10	5.58	5.11	0.20	19.70	5.84	5.37	0.14
17.15	5.59	5.12	0.20	19.75	5.85	5.37	0.14
17.20	5.59	5.12	0.19	19.80	5.85	5.38	0.14
17.25	5.60	5.13	0.19	19.85	5.85	5.38	0.14
17.30	5.60	5.13	0.19	19.90	5.86	5.39	0.14
17.35	5.61	5.14	0.19	19.95	5.86	5.39	0.14
17.40	5.62	5.15	0.19	20.00	5.87	5.40	0.14
17.45	5.62	5.15	0.18	20.05	5.87	5.40	0.14
17.50	5.63	5.16	0.18	20.10	5.88	5.40	0.14
17.55	5.63	5.16	0.18	20.15	5.88	5.41	0.14
17.60	5.64	5.17	0.18	20.20	5.89	5.41	0.14
17.65	5.64	5.17	0.18	20.25	5.89	5.42	0.13
17.70	5.65	5.18	0.17	20.30	5.89	5.42	0.13
17.75	5.66	5.18	0.17	20.35	5.90	5.43	0.13
17.80	5.66	5.19	0.17	20.40	5.90	5.43	0.13
17.85	5.67	5.19	0.17	20.45	5.91	5.43	0.13
17.90	5.67	5.20	0.17	20.50	5.91	5.44	0.13
17.95	5.68	5.20	0.16	20.55	5.92	5.44	0.13
18.00	5.68	5.21	0.16	20.60	5.92	5.45	0.13
18.05	5.69	5.21	0.16	20.65	5.92	5.45	0.13
18.10	5.69	5.22	0.16	20.70	5.93	5.46	0.13
18.15	5.70	5.22	0.16	20.75	5.93	5.46	0.13

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.94	5.46	0.13	23.40	6.13	5.66	0.11
20.85	5.94	5.47	0.13	23.45	6.13	5.66	0.10
20.90	5.94	5.47	0.13	23.50	6.14	5.66	0.10
20.95	5.95	5.48	0.13	23.55	6.14	5.67	0.10
21.00	5.95	5.48	0.13	23.60	6.14	5.67	0.10
21.05	5.96	5.48	0.13	23.65	6.15	5.67	0.10
21.10	5.96	5.49	0.13	23.70	6.15	5.68	0.10
21.15	5.96	5.49	0.13	23.75	6.15	5.68	0.10
21.20	5.97	5.50	0.13	23.80	6.16	5.68	0.10
21.25	5.97	5.50	0.13	23.85	6.16	5.69	0.10
21.30	5.98	5.50	0.13	23.90	6.16	5.69	0.10
21.35	5.98	5.51	0.12	23.95	6.17	5.69	0.10
21.40	5.98	5.51	0.12	24.00	**6.17**	**5.70**	0.11
21.45	5.99	5.52	0.12				
21.50	5.99	5.52	0.12				
21.55	6.00	5.52	0.12				
21.60	6.00	5.53	0.12				
21.65	6.00	5.53	0.12				
21.70	6.01	5.54	0.12				
21.75	6.01	5.54	0.12				
21.80	6.02	5.54	0.12				
21.85	6.02	5.55	0.12				
21.90	6.02	5.55	0.12				
21.95	6.03	5.55	0.12				
22.00	6.03	5.56	0.12				
22.05	6.03	5.56	0.12				
22.10	6.04	5.57	0.12				
22.15	6.04	5.57	0.12				
22.20	6.05	5.57	0.12				
22.25	6.05	5.58	0.12				
22.30	6.05	5.58	0.12				
22.35	6.06	5.58	0.12				
22.40	6.06	5.59	0.11				
22.45	6.06	5.59	0.11				
22.50	6.07	5.59	0.11				
22.55	6.07	5.60	0.11				
22.60	6.07	5.60	0.11				
22.65	6.08	5.61	0.11				
22.70	6.08	5.61	0.11				
22.75	6.09	5.61	0.11				
22.80	6.09	5.62	0.11				
22.85	6.09	5.62	0.11				
22.90	6.10	5.62	0.11				
22.95	6.10	5.63	0.11				
23.00	6.10	5.63	0.11				
23.05	6.11	5.63	0.11				
23.10	6.11	5.64	0.11				
23.15	6.11	5.64	0.11				
23.20	6.12	5.64	0.11				
23.25	6.12	5.65	0.11				
23.30	6.12	5.65	0.11				
23.35	6.13	5.65	0.11				

Summary for Subcatchment EDA2 IMP: EDA2 IMP

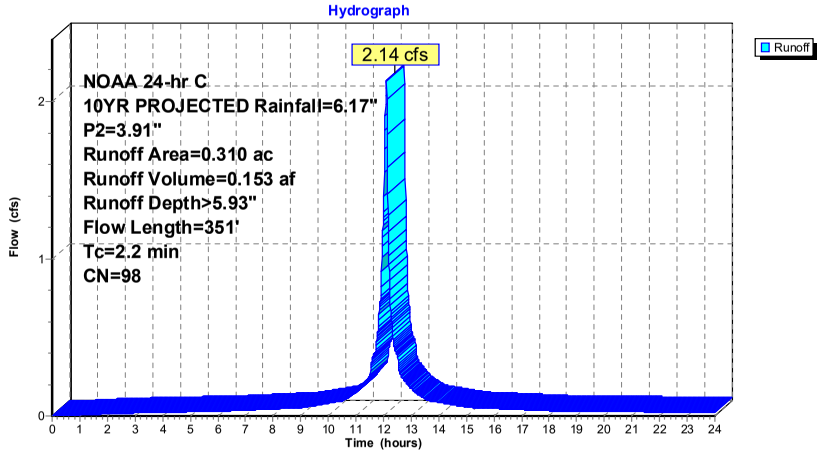
Runoff = 2.14 cfs @ 12.11 hrs, Volume= 0.153 af, Depth> 5.93"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR PROJECTED Rainfall=6.17", P2=3.91"

	Area (ac)	CN	Description
*	0.310	98	Impervious vehicular
	0.310		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	100	0.0180	1.46		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
1.1	251	0.0360	3.85		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
2.2	351	Total			

Subcatchment EDA2 IMP: EDA2 IMP



Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.06	0.02
0.05	0.00	0.00	0.00	2.65	0.19	0.06	0.02
0.10	0.01	0.00	0.00	2.70	0.19	0.07	0.02
0.15	0.01	0.00	0.00	2.75	0.20	0.07	0.02
0.20	0.01	0.00	0.00	2.80	0.20	0.07	0.02
0.25	0.02	0.00	0.00	2.85	0.21	0.07	0.02
0.30	0.02	0.00	0.00	2.90	0.21	0.08	0.02
0.35	0.02	0.00	0.00	2.95	0.21	0.08	0.02
0.40	0.03	0.00	0.00	3.00	0.22	0.08	0.02
0.45	0.03	0.00	0.00	3.05	0.22	0.09	0.02
0.50	0.03	0.00	0.00	3.10	0.23	0.09	0.02
0.55	0.04	0.00	0.00	3.15	0.23	0.09	0.02
0.60	0.04	0.00	0.00	3.20	0.23	0.09	0.02
0.65	0.04	0.00	0.00	3.25	0.24	0.10	0.02
0.70	0.05	0.00	0.00	3.30	0.24	0.10	0.02
0.75	0.05	0.00	0.00	3.35	0.25	0.10	0.02
0.80	0.05	0.00	0.00	3.40	0.25	0.11	0.02
0.85	0.06	0.00	0.00	3.45	0.25	0.11	0.02
0.90	0.06	0.00	0.00	3.50	0.26	0.11	0.02
0.95	0.06	0.00	0.00	3.55	0.26	0.12	0.02
1.00	0.07	0.00	0.00	3.60	0.27	0.12	0.02
1.05	0.07	0.00	0.00	3.65	0.27	0.12	0.02
1.10	0.07	0.00	0.01	3.70	0.28	0.13	0.02
1.15	0.08	0.01	0.01	3.75	0.28	0.13	0.02
1.20	0.08	0.01	0.01	3.80	0.28	0.13	0.02
1.25	0.08	0.01	0.01	3.85	0.29	0.14	0.02
1.30	0.09	0.01	0.01	3.90	0.29	0.14	0.02
1.35	0.09	0.01	0.01	3.95	0.30	0.14	0.02
1.40	0.10	0.01	0.01	4.00	0.30	0.15	0.02
1.45	0.10	0.01	0.01	4.05	0.31	0.15	0.02
1.50	0.10	0.01	0.01	4.10	0.31	0.15	0.02
1.55	0.11	0.02	0.01	4.15	0.32	0.16	0.02
1.60	0.11	0.02	0.01	4.20	0.32	0.16	0.02
1.65	0.11	0.02	0.01	4.25	0.32	0.16	0.02
1.70	0.12	0.02	0.01	4.30	0.33	0.17	0.02
1.75	0.12	0.02	0.01	4.35	0.33	0.17	0.02
1.80	0.12	0.02	0.01	4.40	0.34	0.18	0.02
1.85	0.13	0.03	0.01	4.45	0.34	0.18	0.02
1.90	0.13	0.03	0.01	4.50	0.35	0.18	0.02
1.95	0.14	0.03	0.01	4.55	0.35	0.19	0.02
2.00	0.14	0.03	0.01	4.60	0.36	0.19	0.02
2.05	0.14	0.03	0.01	4.65	0.36	0.19	0.02
2.10	0.15	0.04	0.01	4.70	0.36	0.20	0.02
2.15	0.15	0.04	0.01	4.75	0.37	0.20	0.02
2.20	0.15	0.04	0.01	4.80	0.37	0.21	0.02
2.25	0.16	0.04	0.01	4.85	0.38	0.21	0.02
2.30	0.16	0.05	0.01	4.90	0.38	0.21	0.02
2.35	0.17	0.05	0.01	4.95	0.39	0.22	0.02
2.40	0.17	0.05	0.01	5.00	0.39	0.22	0.03
2.45	0.17	0.05	0.02	5.05	0.40	0.23	0.03
2.50	0.18	0.06	0.02	5.10	0.40	0.23	0.03
2.55	0.18	0.06	0.02	5.15	0.41	0.23	0.03

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.41	0.24	0.03	7.80	0.71	0.51	0.04
5.25	0.42	0.24	0.03	7.85	0.72	0.52	0.04
5.30	0.42	0.25	0.03	7.90	0.72	0.53	0.04
5.35	0.43	0.25	0.03	7.95	0.73	0.53	0.04
5.40	0.43	0.26	0.03	8.00	0.74	0.54	0.04
5.45	0.44	0.26	0.03	8.05	0.75	0.55	0.04
5.50	0.44	0.26	0.03	8.10	0.75	0.55	0.04
5.55	0.44	0.27	0.03	8.15	0.76	0.56	0.05
5.60	0.45	0.27	0.03	8.20	0.77	0.57	0.05
5.65	0.45	0.28	0.03	8.25	0.78	0.58	0.05
5.70	0.46	0.28	0.03	8.30	0.79	0.58	0.05
5.75	0.46	0.29	0.03	8.35	0.79	0.59	0.05
5.80	0.47	0.29	0.03	8.40	0.80	0.60	0.05
5.85	0.47	0.29	0.03	8.45	0.81	0.61	0.05
5.90	0.48	0.30	0.03	8.50	0.82	0.61	0.05
5.95	0.48	0.30	0.03	8.55	0.83	0.62	0.05
6.00	0.49	0.31	0.03	8.60	0.83	0.63	0.05
6.05	0.49	0.31	0.03	8.65	0.84	0.64	0.05
6.10	0.50	0.32	0.03	8.70	0.85	0.65	0.05
6.15	0.50	0.32	0.03	8.75	0.86	0.65	0.05
6.20	0.51	0.33	0.03	8.80	0.87	0.66	0.05
6.25	0.51	0.33	0.03	8.85	0.88	0.67	0.05
6.30	0.52	0.34	0.03	8.90	0.88	0.68	0.05
6.35	0.53	0.34	0.03	8.95	0.89	0.69	0.05
6.40	0.53	0.35	0.03	9.00	0.90	0.70	0.05
6.45	0.54	0.35	0.03	9.05	0.91	0.70	0.05
6.50	0.54	0.36	0.03	9.10	0.92	0.71	0.05
6.55	0.55	0.36	0.03	9.15	0.93	0.72	0.06
6.60	0.55	0.37	0.03	9.20	0.94	0.73	0.06
6.65	0.56	0.37	0.03	9.25	0.95	0.74	0.06
6.70	0.57	0.38	0.03	9.30	0.96	0.75	0.06
6.75	0.57	0.38	0.03	9.35	0.97	0.76	0.06
6.80	0.58	0.39	0.03	9.40	0.98	0.77	0.06
6.85	0.58	0.39	0.03	9.45	0.99	0.78	0.06
6.90	0.59	0.40	0.04	9.50	1.00	0.79	0.07
6.95	0.60	0.41	0.04	9.55	1.01	0.80	0.07
7.00	0.60	0.41	0.04	9.60	1.02	0.81	0.07
7.05	0.61	0.42	0.04	9.65	1.04	0.83	0.07
7.10	0.61	0.42	0.04	9.70	1.05	0.84	0.07
7.15	0.62	0.43	0.04	9.75	1.06	0.85	0.07
7.20	0.63	0.44	0.04	9.80	1.07	0.86	0.07
7.25	0.63	0.44	0.04	9.85	1.09	0.87	0.08
7.30	0.64	0.45	0.04	9.90	1.10	0.89	0.08
7.35	0.65	0.45	0.04	9.95	1.11	0.90	0.08
7.40	0.65	0.46	0.04	10.00	1.12	0.91	0.08
7.45	0.66	0.47	0.04	10.05	1.14	0.93	0.08
7.50	0.67	0.47	0.04	10.10	1.15	0.94	0.08
7.55	0.67	0.48	0.04	10.15	1.17	0.95	0.09
7.60	0.68	0.49	0.04	10.20	1.18	0.97	0.09
7.65	0.69	0.49	0.04	10.25	1.20	0.98	0.09
7.70	0.70	0.50	0.04	10.30	1.21	1.00	0.09
7.75	0.70	0.51	0.04	10.35	1.23	1.01	0.09

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.24	1.03	0.09	13.00	4.69	4.45	0.18
10.45	1.26	1.04	0.09	13.05	4.71	4.48	0.16
10.50	1.27	1.06	0.10	13.10	4.74	4.50	0.16
10.55	1.29	1.07	0.10	13.15	4.76	4.52	0.15
10.60	1.31	1.09	0.11	13.20	4.78	4.55	0.14
10.65	1.33	1.11	0.11	13.25	4.80	4.57	0.14
10.70	1.34	1.13	0.12	13.30	4.83	4.59	0.13
10.75	1.37	1.15	0.12	13.35	4.84	4.61	0.12
10.80	1.39	1.17	0.13	13.40	4.86	4.63	0.12
10.85	1.41	1.19	0.13	13.45	4.88	4.64	0.11
10.90	1.43	1.21	0.14	13.50	4.90	4.66	0.11
10.95	1.46	1.24	0.15	13.55	4.91	4.68	0.10
11.00	1.48	1.26	0.15	13.60	4.93	4.69	0.10
11.05	1.51	1.29	0.16	13.65	4.94	4.71	0.10
11.10	1.54	1.32	0.17	13.70	4.96	4.72	0.09
11.15	1.57	1.35	0.18	13.75	4.97	4.74	0.09
11.20	1.60	1.38	0.19	13.80	4.99	4.75	0.09
11.25	1.63	1.41	0.20	13.85	5.00	4.77	0.09
11.30	1.67	1.45	0.21	13.90	5.02	4.78	0.09
11.35	1.70	1.48	0.22	13.95	5.03	4.79	0.09
11.40	1.74	1.52	0.23	14.00	5.05	4.81	0.09
11.45	1.78	1.56	0.24	14.05	5.06	4.82	0.08
11.50	1.82	1.60	0.25	14.10	5.07	4.83	0.08
11.55	1.89	1.66	0.32	14.15	5.08	4.85	0.08
11.60	1.95	1.72	0.37	14.20	5.10	4.86	0.08
11.65	2.01	1.79	0.39	14.25	5.11	4.87	0.08
11.70	2.08	1.85	0.40	14.30	5.12	4.88	0.08
11.75	2.17	1.94	0.49	14.35	5.13	4.90	0.08
11.80	2.26	2.03	0.54	14.40	5.15	4.91	0.07
11.85	2.38	2.16	0.67	14.45	5.16	4.92	0.07
11.90	2.51	2.28	0.75	14.50	5.17	4.93	0.07
11.95	2.72	2.49	1.08	14.55	5.18	4.94	0.07
12.00	2.94	2.71	1.27	14.60	5.19	4.95	0.07
12.05	3.30	3.07	1.82	14.65	5.20	4.96	0.07
12.10	3.66	3.43	**2.12**	14.70	5.21	4.97	0.07
12.15	3.79	3.55	**1.41**	14.75	5.22	4.98	0.06
12.20	3.91	3.68	0.97	14.80	5.23	4.99	0.06
12.25	4.00	3.77	0.70	14.85	5.24	5.00	0.06
12.30	4.09	3.86	0.60	14.90	5.25	5.01	0.06
12.35	4.16	3.92	0.48	14.95	5.26	5.02	0.06
12.40	4.22	3.99	0.43	15.00	5.27	5.03	0.06
12.45	4.28	4.05	0.40	15.05	5.28	5.04	0.06
12.50	4.35	4.11	0.39	15.10	5.29	5.05	0.05
12.55	4.39	4.15	0.31	15.15	5.29	5.06	0.05
12.60	4.43	4.19	0.27	15.20	5.30	5.07	0.05
12.65	4.47	4.23	0.25	15.25	5.31	5.07	0.05
12.70	4.50	4.27	0.24	15.30	5.32	5.08	0.05
12.75	4.54	4.30	0.22	15.35	5.33	5.09	0.05
12.80	4.57	4.34	0.22	15.40	5.34	5.10	0.05
12.85	4.60	4.37	0.20	15.45	5.34	5.11	0.05
12.90	4.63	4.40	0.20	15.50	5.35	5.12	0.05
12.95	4.66	4.43	0.18	15.55	5.36	5.12	0.05

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.37	5.13	0.05	18.20	5.70	5.46	0.03
15.65	5.38	5.14	0.05	18.25	5.71	5.47	0.03
15.70	5.38	5.15	0.05	18.30	5.71	5.47	0.03
15.75	5.39	5.16	0.05	18.35	5.72	5.48	0.03
15.80	5.40	5.16	0.05	18.40	5.72	5.48	0.03
15.85	5.41	5.17	0.05	18.45	5.73	5.49	0.03
15.90	5.42	5.18	0.05	18.50	5.73	5.49	0.03
15.95	5.42	5.19	0.05	18.55	5.73	5.50	0.03
16.00	5.43	5.19	0.05	18.60	5.74	5.50	0.03
16.05	5.44	5.20	0.05	18.65	5.74	5.51	0.03
16.10	5.45	5.21	0.05	18.70	5.75	5.51	0.03
16.15	5.45	5.22	0.05	18.75	5.75	5.52	0.03
16.20	5.46	5.22	0.05	18.80	5.76	5.52	0.03
16.25	5.47	5.23	0.05	18.85	5.76	5.53	0.03
16.30	5.47	5.24	0.04	18.90	5.77	5.53	0.03
16.35	5.48	5.24	0.04	18.95	5.77	5.54	0.03
16.40	5.49	5.25	0.04	19.00	5.78	5.54	0.03
16.45	5.50	5.26	0.04	19.05	5.78	5.54	0.03
16.50	5.50	5.26	0.04	19.10	5.79	5.55	0.03
16.55	5.51	5.27	0.04	19.15	5.79	5.55	0.03
16.60	5.52	5.28	0.04	19.20	5.80	5.56	0.03
16.65	5.52	5.29	0.04	19.25	5.80	5.56	0.03
16.70	5.53	5.29	0.04	19.30	5.81	5.57	0.03
16.75	5.54	5.30	0.04	19.35	5.81	5.57	0.03
16.80	5.54	5.31	0.04	19.40	5.81	5.58	0.03
16.85	5.55	5.31	0.04	19.45	5.82	5.58	0.03
16.90	5.56	5.32	0.04	19.50	5.82	5.59	0.03
16.95	5.56	5.32	0.04	19.55	5.83	5.59	0.03
17.00	5.57	5.33	0.04	19.60	5.83	5.59	0.03
17.05	5.57	5.34	0.04	19.65	5.84	5.60	0.03
17.10	5.58	5.34	0.04	19.70	5.84	5.60	0.03
17.15	5.59	5.35	0.04	19.75	5.85	5.61	0.03
17.20	5.59	5.36	0.04	19.80	5.85	5.61	0.03
17.25	5.60	5.36	0.04	19.85	5.85	5.62	0.03
17.30	5.60	5.37	0.04	19.90	5.86	5.62	0.03
17.35	5.61	5.37	0.04	19.95	5.86	5.63	0.03
17.40	5.62	5.38	0.04	20.00	5.87	5.63	0.03
17.45	5.62	5.38	0.04	20.05	5.87	5.63	0.03
17.50	5.63	5.39	0.04	20.10	5.88	5.64	0.03
17.55	5.63	5.40	0.04	20.15	5.88	5.64	0.03
17.60	5.64	5.40	0.03	20.20	5.89	5.65	0.03
17.65	5.64	5.41	0.03	20.25	5.89	5.65	0.03
17.70	5.65	5.41	0.03	20.30	5.89	5.66	0.03
17.75	5.66	5.42	0.03	20.35	5.90	5.66	0.03
17.80	5.66	5.42	0.03	20.40	5.90	5.66	0.03
17.85	5.67	5.43	0.03	20.45	5.91	5.67	0.03
17.90	5.67	5.43	0.03	20.50	5.91	5.67	0.03
17.95	5.68	5.44	0.03	20.55	5.92	5.68	0.03
18.00	5.68	5.44	0.03	20.60	5.92	5.68	0.03
18.05	5.69	5.45	0.03	20.65	5.92	5.69	0.03
18.10	5.69	5.45	0.03	20.70	5.93	5.69	0.03
18.15	5.70	5.46	0.03	20.75	5.93	5.69	0.03

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.94	5.70	0.03	23.40	6.13	5.89	0.02
20.85	5.94	5.70	0.03	23.45	6.13	5.89	0.02
20.90	5.94	5.71	0.03	23.50	6.14	5.90	0.02
20.95	5.95	5.71	0.03	23.55	6.14	5.90	0.02
21.00	5.95	5.71	0.03	23.60	6.14	5.90	0.02
21.05	5.96	5.72	0.03	23.65	6.15	5.91	0.02
21.10	5.96	5.72	0.03	23.70	6.15	5.91	0.02
21.15	5.96	5.73	0.03	23.75	6.15	5.91	0.02
21.20	5.97	5.73	0.03	23.80	6.16	5.92	0.02
21.25	5.97	5.73	0.03	23.85	6.16	5.92	0.02
21.30	5.98	5.74	0.03	23.90	6.16	5.92	0.02
21.35	5.98	5.74	0.02	23.95	6.17	5.93	0.02
21.40	5.98	5.75	0.02	24.00	**6.17**	**5.93**	0.02
21.45	5.99	5.75	0.02				
21.50	5.99	5.75	0.02				
21.55	6.00	5.76	0.02				
21.60	6.00	5.76	0.02				
21.65	6.00	5.77	0.02				
21.70	6.01	5.77	0.02				
21.75	6.01	5.77	0.02				
21.80	6.02	5.78	0.02				
21.85	6.02	5.78	0.02				
21.90	6.02	5.78	0.02				
21.95	6.03	5.79	0.02				
22.00	6.03	5.79	0.02				
22.05	6.03	5.80	0.02				
22.10	6.04	5.80	0.02				
22.15	6.04	5.80	0.02				
22.20	6.05	5.81	0.02				
22.25	6.05	5.81	0.02				
22.30	6.05	5.81	0.02				
22.35	6.06	5.82	0.02				
22.40	6.06	5.82	0.02				
22.45	6.06	5.83	0.02				
22.50	6.07	5.83	0.02				
22.55	6.07	5.83	0.02				
22.60	6.07	5.84	0.02				
22.65	6.08	5.84	0.02				
22.70	6.08	5.84	0.02				
22.75	6.09	5.85	0.02				
22.80	6.09	5.85	0.02				
22.85	6.09	5.85	0.02				
22.90	6.10	5.86	0.02				
22.95	6.10	5.86	0.02				
23.00	6.10	5.86	0.02				
23.05	6.11	5.87	0.02				
23.10	6.11	5.87	0.02				
23.15	6.11	5.87	0.02				
23.20	6.12	5.88	0.02				
23.25	6.12	5.88	0.02				
23.30	6.12	5.88	0.02				
23.35	6.13	5.89	0.02				

Summary for Subcatchment EDA3 IMP: EDA3 IMP

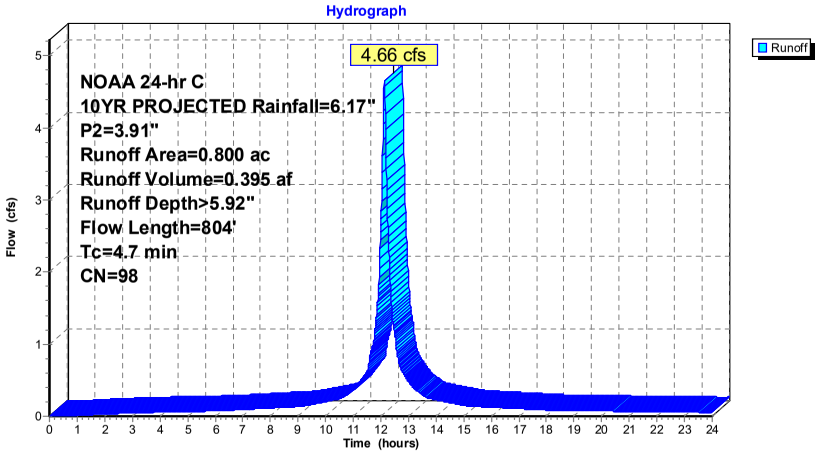
Runoff = 4.66 cfs @ 12.13 hrs, Volume= 0.395 af, Depth> 5.92"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR PROJECTED Rainfall=6.17", P2=3.91"

	Area (ac)	CN	Description
*	0.750	98	Impervious vehicular
*	0.050	98	Impervious non vehicular
	0.800	98	Weighted Average
	0.800		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	100	0.0071	1.00		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.7	172	0.0039	3.90	12.24	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
0.1	27	0.0120	6.84	21.48	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
1.6	439	0.0015	4.45	87.42	**Pipe Channel, RCP_Round 60"** 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.015
4.7	804	Total			

Subcatchment EDA3 IMP: EDA3 IMP



Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.06	0.04
0.05	0.00	0.00	0.00	2.65	0.19	0.06	0.04
0.10	0.01	0.00	0.00	2.70	0.19	0.07	0.04
0.15	0.01	0.00	0.00	2.75	0.20	0.07	0.04
0.20	0.01	0.00	0.00	2.80	0.20	0.07	0.04
0.25	0.02	0.00	0.00	2.85	0.21	0.07	0.04
0.30	0.02	0.00	0.00	2.90	0.21	0.08	0.04
0.35	0.02	0.00	0.00	2.95	0.21	0.08	0.04
0.40	0.03	0.00	0.00	3.00	0.22	0.08	0.05
0.45	0.03	0.00	0.00	3.05	0.22	0.09	0.05
0.50	0.03	0.00	0.00	3.10	0.23	0.09	0.05
0.55	0.04	0.00	0.00	3.15	0.23	0.09	0.05
0.60	0.04	0.00	0.00	3.20	0.23	0.09	0.05
0.65	0.04	0.00	0.00	3.25	0.24	0.10	0.05
0.70	0.05	0.00	0.00	3.30	0.24	0.10	0.05
0.75	0.05	0.00	0.00	3.35	0.25	0.10	0.05
0.80	0.05	0.00	0.00	3.40	0.25	0.11	0.05
0.85	0.06	0.00	0.00	3.45	0.25	0.11	0.05
0.90	0.06	0.00	0.01	3.50	0.26	0.11	0.05
0.95	0.06	0.00	0.01	3.55	0.26	0.12	0.05
1.00	0.07	0.00	0.01	3.60	0.27	0.12	0.05
1.05	0.07	0.00	0.01	3.65	0.27	0.12	0.05
1.10	0.07	0.00	0.01	3.70	0.28	0.13	0.05
1.15	0.08	0.01	0.01	3.75	0.28	0.13	0.05
1.20	0.08	0.01	0.01	3.80	0.28	0.13	0.05
1.25	0.08	0.01	0.02	3.85	0.29	0.14	0.05
1.30	0.09	0.01	0.02	3.90	0.29	0.14	0.05
1.35	0.09	0.01	0.02	3.95	0.30	0.14	0.06
1.40	0.10	0.01	0.02	4.00	0.30	0.15	0.06
1.45	0.10	0.01	0.02	4.05	0.31	0.15	0.06
1.50	0.10	0.01	0.02	4.10	0.31	0.15	0.06
1.55	0.11	0.02	0.02	4.15	0.32	0.16	0.06
1.60	0.11	0.02	0.02	4.20	0.32	0.16	0.06
1.65	0.11	0.02	0.02	4.25	0.32	0.16	0.06
1.70	0.12	0.02	0.03	4.30	0.33	0.17	0.06
1.75	0.12	0.02	0.03	4.35	0.33	0.17	0.06
1.80	0.12	0.02	0.03	4.40	0.34	0.18	0.06
1.85	0.13	0.03	0.03	4.45	0.34	0.18	0.06
1.90	0.13	0.03	0.03	4.50	0.35	0.18	0.06
1.95	0.14	0.03	0.03	4.55	0.35	0.19	0.06
2.00	0.14	0.03	0.03	4.60	0.36	0.19	0.06
2.05	0.14	0.03	0.03	4.65	0.36	0.19	0.06
2.10	0.15	0.04	0.03	4.70	0.36	0.20	0.06
2.15	0.15	0.04	0.03	4.75	0.37	0.20	0.06
2.20	0.15	0.04	0.03	4.80	0.37	0.21	0.06
2.25	0.16	0.04	0.04	4.85	0.38	0.21	0.06
2.30	0.16	0.05	0.04	4.90	0.38	0.21	0.06
2.35	0.17	0.05	0.04	4.95	0.39	0.22	0.06
2.40	0.17	0.05	0.04	5.00	0.39	0.22	0.06
2.45	0.17	0.05	0.04	5.05	0.40	0.23	0.06
2.50	0.18	0.06	0.04	5.10	0.40	0.23	0.07
2.55	0.18	0.06	0.04	5.15	0.41	0.23	0.07

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.41	0.24	0.07	7.80	0.71	0.51	0.11
5.25	0.42	0.24	0.07	7.85	0.72	0.52	0.11
5.30	0.42	0.25	0.07	7.90	0.72	0.53	0.11
5.35	0.43	0.25	0.07	7.95	0.73	0.53	0.11
5.40	0.43	0.26	0.07	8.00	0.74	0.54	0.11
5.45	0.44	0.26	0.07	8.05	0.75	0.55	0.11
5.50	0.44	0.26	0.07	8.10	0.75	0.55	0.11
5.55	0.44	0.27	0.07	8.15	0.76	0.56	0.12
5.60	0.45	0.27	0.07	8.20	0.77	0.57	0.12
5.65	0.45	0.28	0.07	8.25	0.78	0.58	0.12
5.70	0.46	0.28	0.07	8.30	0.79	0.58	0.12
5.75	0.46	0.29	0.07	8.35	0.79	0.59	0.12
5.80	0.47	0.29	0.07	8.40	0.80	0.60	0.12
5.85	0.47	0.29	0.07	8.45	0.81	0.61	0.12
5.90	0.48	0.30	0.07	8.50	0.82	0.61	0.12
5.95	0.48	0.30	0.07	8.55	0.83	0.62	0.12
6.00	0.49	0.31	0.07	8.60	0.83	0.63	0.12
6.05	0.49	0.31	0.07	8.65	0.84	0.64	0.13
6.10	0.50	0.32	0.07	8.70	0.85	0.65	0.13
6.15	0.50	0.32	0.07	8.75	0.86	0.65	0.13
6.20	0.51	0.33	0.07	8.80	0.87	0.66	0.13
6.25	0.51	0.33	0.08	8.85	0.88	0.67	0.13
6.30	0.52	0.34	0.08	8.90	0.88	0.68	0.13
6.35	0.53	0.34	0.08	8.95	0.89	0.69	0.13
6.40	0.53	0.35	0.08	9.00	0.90	0.70	0.13
6.45	0.54	0.35	0.08	9.05	0.91	0.70	0.13
6.50	0.54	0.36	0.08	9.10	0.92	0.71	0.14
6.55	0.55	0.36	0.08	9.15	0.93	0.72	0.14
6.60	0.55	0.37	0.08	9.20	0.94	0.73	0.14
6.65	0.56	0.37	0.08	9.25	0.95	0.74	0.15
6.70	0.57	0.38	0.09	9.30	0.96	0.75	0.15
6.75	0.57	0.38	0.09	9.35	0.97	0.76	0.15
6.80	0.58	0.39	0.09	9.40	0.98	0.77	0.16
6.85	0.58	0.39	0.09	9.45	0.99	0.78	0.16
6.90	0.59	0.40	0.09	9.50	1.00	0.79	0.17
6.95	0.60	0.41	0.09	9.55	1.01	0.80	0.17
7.00	0.60	0.41	0.09	9.60	1.02	0.81	0.17
7.05	0.61	0.42	0.09	9.65	1.04	0.83	0.18
7.10	0.61	0.42	0.09	9.70	1.05	0.84	0.18
7.15	0.62	0.43	0.09	9.75	1.06	0.85	0.18
7.20	0.63	0.44	0.10	9.80	1.07	0.86	0.19
7.25	0.63	0.44	0.10	9.85	1.09	0.87	0.19
7.30	0.64	0.45	0.10	9.90	1.10	0.89	0.20
7.35	0.65	0.45	0.10	9.95	1.11	0.90	0.20
7.40	0.65	0.46	0.10	10.00	1.12	0.91	0.20
7.45	0.66	0.47	0.10	10.05	1.14	0.93	0.21
7.50	0.67	0.47	0.10	10.10	1.15	0.94	0.21
7.55	0.67	0.48	0.10	10.15	1.17	0.95	0.21
7.60	0.68	0.49	0.10	10.20	1.18	0.97	0.22
7.65	0.69	0.49	0.10	10.25	1.20	0.98	0.22
7.70	0.70	0.50	0.11	10.30	1.21	1.00	0.23
7.75	0.70	0.51	0.11	10.35	1.23	1.01	0.23

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.24	1.03	0.23	13.00	4.69	4.45	0.48
10.45	1.26	1.04	0.24	13.05	4.71	4.48	0.46
10.50	1.27	1.06	0.24	13.10	4.74	4.50	0.43
10.55	1.29	1.07	0.25	13.15	4.76	4.52	0.41
10.60	1.31	1.09	0.26	13.20	4.78	4.55	0.39
10.65	1.33	1.11	0.27	13.25	4.80	4.57	0.37
10.70	1.34	1.13	0.28	13.30	4.83	4.59	0.36
10.75	1.37	1.15	0.30	13.35	4.84	4.61	0.34
10.80	1.39	1.17	0.31	13.40	4.86	4.63	0.33
10.85	1.41	1.19	0.33	13.45	4.88	4.64	0.31
10.90	1.43	1.21	0.34	13.50	4.90	4.66	0.30
10.95	1.46	1.24	0.35	13.55	4.91	4.68	0.29
11.00	1.48	1.26	0.37	13.60	4.93	4.69	0.27
11.05	1.51	1.29	0.39	13.65	4.94	4.71	0.26
11.10	1.54	1.32	0.41	13.70	4.96	4.72	0.25
11.15	1.57	1.35	0.43	13.75	4.97	4.74	0.25
11.20	1.60	1.38	0.46	13.80	4.99	4.75	0.24
11.25	1.63	1.41	0.48	13.85	5.00	4.77	0.24
11.30	1.67	1.45	0.51	13.90	5.02	4.78	0.23
11.35	1.70	1.48	0.54	13.95	5.03	4.79	0.23
11.40	1.74	1.52	0.56	14.00	5.05	4.81	0.23
11.45	1.78	1.56	0.59	14.05	5.06	4.82	0.22
11.50	1.82	1.60	0.61	14.10	5.07	4.83	0.22
11.55	1.89	1.66	0.68	14.15	5.08	4.85	0.22
11.60	1.95	1.72	0.82	14.20	5.10	4.86	0.21
11.65	2.01	1.79	0.90	14.25	5.11	4.87	0.21
11.70	2.08	1.85	0.97	14.30	5.12	4.88	0.20
11.75	2.17	1.94	1.07	14.35	5.13	4.90	0.20
11.80	2.26	2.03	1.23	14.40	5.15	4.91	0.20
11.85	2.38	2.16	1.41	14.45	5.16	4.92	0.19
11.90	2.51	2.28	1.66	14.50	5.17	4.93	0.19
11.95	2.72	2.49	2.05	14.55	5.18	4.94	0.19
12.00	2.94	2.71	2.65	14.60	5.19	4.95	0.18
12.05	3.30	3.07	3.38	14.65	5.20	4.96	0.18
12.10	3.66	3.43	**4.41**	14.70	5.21	4.97	0.17
12.15	3.79	3.55	**4.41**	14.75	5.22	4.98	0.17
12.20	3.91	3.68	3.43	14.80	5.23	4.99	0.17
12.25	4.00	3.77	2.75	14.85	5.24	5.00	0.16
12.30	4.09	3.86	2.20	14.90	5.25	5.01	0.16
12.35	4.16	3.92	1.80	14.95	5.26	5.02	0.16
12.40	4.22	3.99	1.46	15.00	5.27	5.03	0.15
12.45	4.28	4.05	1.26	15.05	5.28	5.04	0.15
12.50	4.35	4.11	1.14	15.10	5.29	5.05	0.14
12.55	4.39	4.15	1.02	15.15	5.29	5.06	0.14
12.60	4.43	4.19	0.85	15.20	5.30	5.07	0.14
12.65	4.47	4.23	0.75	15.25	5.31	5.07	0.14
12.70	4.50	4.27	0.69	15.30	5.32	5.08	0.14
12.75	4.54	4.30	0.64	15.35	5.33	5.09	0.14
12.80	4.57	4.34	0.60	15.40	5.34	5.10	0.13
12.85	4.60	4.37	0.57	15.45	5.34	5.11	0.13
12.90	4.63	4.40	0.54	15.50	5.35	5.12	0.13
12.95	4.66	4.43	0.51	15.55	5.36	5.12	0.13

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.37	5.13	0.13	18.20	5.70	5.46	0.08
15.65	5.38	5.14	0.13	18.25	5.71	5.47	0.08
15.70	5.38	5.15	0.13	18.30	5.71	5.47	0.08
15.75	5.39	5.16	0.13	18.35	5.72	5.48	0.08
15.80	5.40	5.16	0.13	18.40	5.72	5.48	0.08
15.85	5.41	5.17	0.13	18.45	5.73	5.49	0.08
15.90	5.42	5.18	0.12	18.50	5.73	5.49	0.08
15.95	5.42	5.19	0.12	18.55	5.73	5.50	0.08
16.00	5.43	5.19	0.12	18.60	5.74	5.50	0.08
16.05	5.44	5.20	0.12	18.65	5.74	5.51	0.08
16.10	5.45	5.21	0.12	18.70	5.75	5.51	0.08
16.15	5.45	5.22	0.12	18.75	5.75	5.52	0.08
16.20	5.46	5.22	0.12	18.80	5.76	5.52	0.08
16.25	5.47	5.23	0.12	18.85	5.76	5.53	0.08
16.30	5.47	5.24	0.12	18.90	5.77	5.53	0.08
16.35	5.48	5.24	0.12	18.95	5.77	5.54	0.08
16.40	5.49	5.25	0.12	19.00	5.78	5.54	0.08
16.45	5.50	5.26	0.11	19.05	5.78	5.54	0.08
16.50	5.50	5.26	0.11	19.10	5.79	5.55	0.08
16.55	5.51	5.27	0.11	19.15	5.79	5.55	0.08
16.60	5.52	5.28	0.11	19.20	5.80	5.56	0.07
16.65	5.52	5.29	0.11	19.25	5.80	5.56	0.07
16.70	5.53	5.29	0.11	19.30	5.81	5.57	0.07
16.75	5.54	5.30	0.11	19.35	5.81	5.57	0.07
16.80	5.54	5.31	0.11	19.40	5.81	5.58	0.07
16.85	5.55	5.31	0.11	19.45	5.82	5.58	0.07
16.90	5.56	5.32	0.11	19.50	5.82	5.59	0.07
16.95	5.56	5.32	0.10	19.55	5.83	5.59	0.07
17.00	5.57	5.33	0.10	19.60	5.83	5.59	0.07
17.05	5.57	5.34	0.10	19.65	5.84	5.60	0.07
17.10	5.58	5.34	0.10	19.70	5.84	5.60	0.07
17.15	5.59	5.35	0.10	19.75	5.85	5.61	0.07
17.20	5.59	5.36	0.10	19.80	5.85	5.61	0.07
17.25	5.60	5.36	0.10	19.85	5.85	5.62	0.07
17.30	5.60	5.37	0.10	19.90	5.86	5.62	0.07
17.35	5.61	5.37	0.10	19.95	5.86	5.63	0.07
17.40	5.62	5.38	0.10	20.00	5.87	5.63	0.07
17.45	5.62	5.38	0.09	20.05	5.87	5.63	0.07
17.50	5.63	5.39	0.09	20.10	5.88	5.64	0.07
17.55	5.63	5.40	0.09	20.15	5.88	5.64	0.07
17.60	5.64	5.40	0.09	20.20	5.89	5.65	0.07
17.65	5.64	5.41	0.09	20.25	5.89	5.65	0.07
17.70	5.65	5.41	0.09	20.30	5.89	5.66	0.07
17.75	5.66	5.42	0.09	20.35	5.90	5.66	0.07
17.80	5.66	5.42	0.09	20.40	5.90	5.66	0.07
17.85	5.67	5.43	0.09	20.45	5.91	5.67	0.07
17.90	5.67	5.43	0.09	20.50	5.91	5.67	0.07
17.95	5.68	5.44	0.08	20.55	5.92	5.68	0.07
18.00	5.68	5.44	0.08	20.60	5.92	5.68	0.07
18.05	5.69	5.45	0.08	20.65	5.92	5.69	0.07
18.10	5.69	5.45	0.08	20.70	5.93	5.69	0.07
18.15	5.70	5.46	0.08	20.75	5.93	5.69	0.07

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.94	5.70	0.07	23.40	6.13	5.89	0.05
20.85	5.94	5.70	0.07	23.45	6.13	5.89	0.05
20.90	5.94	5.71	0.07	23.50	6.14	5.90	0.05
20.95	5.95	5.71	0.07	23.55	6.14	5.90	0.05
21.00	5.95	5.71	0.07	23.60	6.14	5.90	0.05
21.05	5.96	5.72	0.07	23.65	6.15	5.91	0.05
21.10	5.96	5.72	0.07	23.70	6.15	5.91	0.05
21.15	5.96	5.73	0.07	23.75	6.15	5.91	0.05
21.20	5.97	5.73	0.06	23.80	6.16	5.92	0.05
21.25	5.97	5.73	0.06	23.85	6.16	5.92	0.05
21.30	5.98	5.74	0.06	23.90	6.16	5.92	0.05
21.35	5.98	5.74	0.06	23.95	6.17	5.93	0.05
21.40	5.98	5.75	0.06	24.00	**6.17**	**5.93**	0.06
21.45	5.99	5.75	0.06				
21.50	5.99	5.75	0.06				
21.55	6.00	5.76	0.06				
21.60	6.00	5.76	0.06				
21.65	6.00	5.77	0.06				
21.70	6.01	5.77	0.06				
21.75	6.01	5.77	0.06				
21.80	6.02	5.78	0.06				
21.85	6.02	5.78	0.06				
21.90	6.02	5.78	0.06				
21.95	6.03	5.79	0.06				
22.00	6.03	5.79	0.06				
22.05	6.03	5.80	0.06				
22.10	6.04	5.80	0.06				
22.15	6.04	5.80	0.06				
22.20	6.05	5.81	0.06				
22.25	6.05	5.81	0.06				
22.30	6.05	5.81	0.06				
22.35	6.06	5.82	0.06				
22.40	6.06	5.82	0.06				
22.45	6.06	5.83	0.06				
22.50	6.07	5.83	0.06				
22.55	6.07	5.83	0.06				
22.60	6.07	5.84	0.06				
22.65	6.08	5.84	0.06				
22.70	6.08	5.84	0.06				
22.75	6.09	5.85	0.06				
22.80	6.09	5.85	0.06				
22.85	6.09	5.85	0.06				
22.90	6.10	5.86	0.06				
22.95	6.10	5.86	0.06				
23.00	6.10	5.86	0.06				
23.05	6.11	5.87	0.06				
23.10	6.11	5.87	0.06				
23.15	6.11	5.87	0.06				
23.20	6.12	5.88	0.06				
23.25	6.12	5.88	0.05				
23.30	6.12	5.88	0.05				
23.35	6.13	5.89	0.05				

Summary for Subcatchment EDA3 PERV: EDA3 PERV

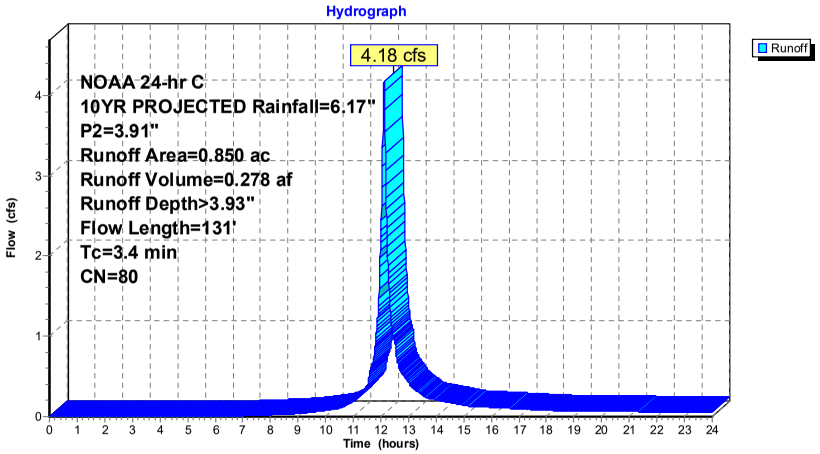
Runoff = 4.18 cfs @ 12.12 hrs, Volume= 0.278 af, Depth> 3.93"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR PROJECTED Rainfall=6.17", P2=3.91"

Area (ac)	CN	Description
0.850	80	>75% Grass cover, Good, HSG D
0.850		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.7	23	0.0200	0.14		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.1	42	0.0150	5.59	6.86	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
3.4	131	Total			

Subcatchment EDA3 PERV: EDA3 PERV



Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.19	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.19	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.20	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.20	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.21	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.21	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.21	0.00	0.00
0.40	0.03	0.00	0.00	3.00	0.22	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.22	0.00	0.00
0.50	0.03	0.00	0.00	3.10	0.23	0.00	0.00
0.55	0.04	0.00	0.00	3.15	0.23	0.00	0.00
0.60	0.04	0.00	0.00	3.20	0.23	0.00	0.00
0.65	0.04	0.00	0.00	3.25	0.24	0.00	0.00
0.70	0.05	0.00	0.00	3.30	0.24	0.00	0.00
0.75	0.05	0.00	0.00	3.35	0.25	0.00	0.00
0.80	0.05	0.00	0.00	3.40	0.25	0.00	0.00
0.85	0.06	0.00	0.00	3.45	0.25	0.00	0.00
0.90	0.06	0.00	0.00	3.50	0.26	0.00	0.00
0.95	0.06	0.00	0.00	3.55	0.26	0.00	0.00
1.00	0.07	0.00	0.00	3.60	0.27	0.00	0.00
1.05	0.07	0.00	0.00	3.65	0.27	0.00	0.00
1.10	0.07	0.00	0.00	3.70	0.28	0.00	0.00
1.15	0.08	0.00	0.00	3.75	0.28	0.00	0.00
1.20	0.08	0.00	0.00	3.80	0.28	0.00	0.00
1.25	0.08	0.00	0.00	3.85	0.29	0.00	0.00
1.30	0.09	0.00	0.00	3.90	0.29	0.00	0.00
1.35	0.09	0.00	0.00	3.95	0.30	0.00	0.00
1.40	0.10	0.00	0.00	4.00	0.30	0.00	0.00
1.45	0.10	0.00	0.00	4.05	0.31	0.00	0.00
1.50	0.10	0.00	0.00	4.10	0.31	0.00	0.00
1.55	0.11	0.00	0.00	4.15	0.32	0.00	0.00
1.60	0.11	0.00	0.00	4.20	0.32	0.00	0.00
1.65	0.11	0.00	0.00	4.25	0.32	0.00	0.00
1.70	0.12	0.00	0.00	4.30	0.33	0.00	0.00
1.75	0.12	0.00	0.00	4.35	0.33	0.00	0.00
1.80	0.12	0.00	0.00	4.40	0.34	0.00	0.00
1.85	0.13	0.00	0.00	4.45	0.34	0.00	0.00
1.90	0.13	0.00	0.00	4.50	0.35	0.00	0.00
1.95	0.14	0.00	0.00	4.55	0.35	0.00	0.00
2.00	0.14	0.00	0.00	4.60	0.36	0.00	0.00
2.05	0.14	0.00	0.00	4.65	0.36	0.00	0.00
2.10	0.15	0.00	0.00	4.70	0.36	0.00	0.00
2.15	0.15	0.00	0.00	4.75	0.37	0.00	0.00
2.20	0.15	0.00	0.00	4.80	0.37	0.00	0.00
2.25	0.16	0.00	0.00	4.85	0.38	0.00	0.00
2.30	0.16	0.00	0.00	4.90	0.38	0.00	0.00
2.35	0.17	0.00	0.00	4.95	0.39	0.00	0.00
2.40	0.17	0.00	0.00	5.00	0.39	0.00	0.00
2.45	0.17	0.00	0.00	5.05	0.40	0.00	0.00
2.50	0.18	0.00	0.00	5.10	0.40	0.00	0.00
2.55	0.18	0.00	0.00	5.15	0.41	0.00	0.00

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.41	0.00	0.00	7.80	0.71	0.02	0.02
5.25	0.42	0.00	0.00	7.85	0.72	0.02	0.02
5.30	0.42	0.00	0.00	7.90	0.72	0.02	0.02
5.35	0.43	0.00	0.00	7.95	0.73	0.02	0.02
5.40	0.43	0.00	0.00	8.00	0.74	0.02	0.02
5.45	0.44	0.00	0.00	8.05	0.75	0.02	0.02
5.50	0.44	0.00	0.00	8.10	0.75	0.02	0.02
5.55	0.44	0.00	0.00	8.15	0.76	0.02	0.02
5.60	0.45	0.00	0.00	8.20	0.77	0.03	0.02
5.65	0.45	0.00	0.00	8.25	0.78	0.03	0.02
5.70	0.46	0.00	0.00	8.30	0.79	0.03	0.02
5.75	0.46	0.00	0.00	8.35	0.79	0.03	0.03
5.80	0.47	0.00	0.00	8.40	0.80	0.03	0.03
5.85	0.47	0.00	0.00	8.45	0.81	0.03	0.03
5.90	0.48	0.00	0.00	8.50	0.82	0.04	0.03
5.95	0.48	0.00	0.00	8.55	0.83	0.04	0.03
6.00	0.49	0.00	0.00	8.60	0.83	0.04	0.03
6.05	0.49	0.00	0.00	8.65	0.84	0.04	0.03
6.10	0.50	0.00	0.00	8.70	0.85	0.04	0.03
6.15	0.50	0.00	0.00	8.75	0.86	0.04	0.03
6.20	0.51	0.00	0.00	8.80	0.87	0.05	0.03
6.25	0.51	0.00	0.00	8.85	0.88	0.05	0.03
6.30	0.52	0.00	0.00	8.90	0.88	0.05	0.03
6.35	0.53	0.00	0.00	8.95	0.89	0.05	0.04
6.40	0.53	0.00	0.00	9.00	0.90	0.06	0.04
6.45	0.54	0.00	0.00	9.05	0.91	0.06	0.04
6.50	0.54	0.00	0.00	9.10	0.92	0.06	0.04
6.55	0.55	0.00	0.00	9.15	0.93	0.06	0.04
6.60	0.55	0.00	0.00	9.20	0.94	0.07	0.04
6.65	0.56	0.00	0.00	9.25	0.95	0.07	0.05
6.70	0.57	0.00	0.00	9.30	0.96	0.07	0.05
6.75	0.57	0.00	0.00	9.35	0.97	0.07	0.05
6.80	0.58	0.00	0.01	9.40	0.98	0.08	0.05
6.85	0.58	0.00	0.01	9.45	0.99	0.08	0.05
6.90	0.59	0.00	0.01	9.50	1.00	0.08	0.05
6.95	0.60	0.00	0.01	9.55	1.01	0.09	0.06
7.00	0.60	0.00	0.01	9.60	1.02	0.09	0.06
7.05	0.61	0.00	0.01	9.65	1.04	0.09	0.06
7.10	0.61	0.01	0.01	9.70	1.05	0.10	0.06
7.15	0.62	0.01	0.01	9.75	1.06	0.10	0.07
7.20	0.63	0.01	0.01	9.80	1.07	0.11	0.07
7.25	0.63	0.01	0.01	9.85	1.09	0.11	0.07
7.30	0.64	0.01	0.01	9.90	1.10	0.12	0.07
7.35	0.65	0.01	0.01	9.95	1.11	0.12	0.08
7.40	0.65	0.01	0.01	10.00	1.12	0.12	0.08
7.45	0.66	0.01	0.01	10.05	1.14	0.13	0.08
7.50	0.67	0.01	0.01	10.10	1.15	0.14	0.08
7.55	0.67	0.01	0.01	10.15	1.17	0.14	0.09
7.60	0.68	0.01	0.01	10.20	1.18	0.15	0.09
7.65	0.69	0.01	0.02	10.25	1.20	0.15	0.09
7.70	0.70	0.01	0.02	10.30	1.21	0.16	0.10
7.75	0.70	0.02	0.02	10.35	1.23	0.16	0.10

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.24	0.17	0.10	13.00	4.69	2.62	0.43
10.45	1.26	0.18	0.10	13.05	4.71	2.64	0.40
10.50	1.27	0.18	0.11	13.10	4.74	2.67	0.38
10.55	1.29	0.19	0.11	13.15	4.76	2.69	0.36
10.60	1.31	0.20	0.12	13.20	4.78	2.70	0.35
10.65	1.33	0.20	0.13	13.25	4.80	2.72	0.33
10.70	1.34	0.21	0.14	13.30	4.83	2.74	0.32
10.75	1.37	0.22	0.15	13.35	4.84	2.76	0.31
10.80	1.39	0.23	0.15	13.40	4.86	2.77	0.29
10.85	1.41	0.24	0.16	13.45	4.88	2.79	0.28
10.90	1.43	0.25	0.17	13.50	4.90	2.80	0.27
10.95	1.46	0.26	0.18	13.55	4.91	2.82	0.25
11.00	1.48	0.28	0.19	13.60	4.93	2.83	0.24
11.05	1.51	0.29	0.21	13.65	4.94	2.84	0.23
11.10	1.54	0.30	0.22	13.70	4.96	2.86	0.23
11.15	1.57	0.32	0.24	13.75	4.97	2.87	0.22
11.20	1.60	0.34	0.26	13.80	4.99	2.88	0.22
11.25	1.63	0.35	0.28	13.85	5.00	2.90	0.22
11.30	1.67	0.37	0.30	13.90	5.02	2.91	0.22
11.35	1.70	0.39	0.32	13.95	5.03	2.92	0.21
11.40	1.74	0.41	0.34	14.00	5.05	2.93	0.21
11.45	1.78	0.44	0.36	14.05	5.06	2.94	0.20
11.50	1.82	0.46	0.37	14.10	5.07	2.96	0.20
11.55	1.89	0.49	0.46	14.15	5.08	2.97	0.20
11.60	1.95	0.53	0.55	14.20	5.10	2.98	0.20
11.65	2.01	0.57	0.61	14.25	5.11	2.99	0.19
11.70	2.08	0.61	0.66	14.30	5.12	3.00	0.19
11.75	2.17	0.67	0.77	14.35	5.13	3.01	0.18
11.80	2.26	0.73	0.89	14.40	5.15	3.02	0.18
11.85	2.38	0.81	1.08	14.45	5.16	3.03	0.18
11.90	2.51	0.90	1.28	14.50	5.17	3.04	0.17
11.95	2.72	1.05	1.74	14.55	5.18	3.05	0.17
12.00	2.94	1.21	2.25	14.60	5.19	3.06	0.17
12.05	3.30	1.48	3.12	14.65	5.20	3.07	0.16
12.10	3.66	1.76	**4.04**	14.70	5.21	3.08	0.16
12.15	3.79	1.87	**3.54**	14.75	5.22	3.09	0.16
12.20	3.91	1.97	2.59	14.80	5.23	3.10	0.15
12.25	4.00	2.04	1.99	14.85	5.24	3.10	0.15
12.30	4.09	2.12	1.59	14.90	5.25	3.11	0.15
12.35	4.16	2.17	1.29	14.95	5.26	3.12	0.14
12.40	4.22	2.23	1.09	15.00	5.27	3.13	0.14
12.45	4.28	2.28	0.99	15.05	5.28	3.14	0.14
12.50	4.35	2.33	0.93	15.10	5.29	3.14	0.13
12.55	4.39	2.37	0.81	15.15	5.29	3.15	0.13
12.60	4.43	2.40	0.69	15.20	5.30	3.16	0.13
12.65	4.47	2.43	0.62	15.25	5.31	3.17	0.13
12.70	4.50	2.46	0.58	15.30	5.32	3.17	0.13
12.75	4.54	2.49	0.55	15.35	5.33	3.18	0.13
12.80	4.57	2.52	0.52	15.40	5.34	3.19	0.13
12.85	4.60	2.55	0.50	15.45	5.34	3.20	0.13
12.90	4.63	2.58	0.47	15.50	5.35	3.20	0.12
12.95	4.66	2.60	0.45	15.55	5.36	3.21	0.12

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.37	3.22	0.12	18.20	5.70	3.51	0.08
15.65	5.38	3.22	0.12	18.25	5.71	3.52	0.08
15.70	5.38	3.23	0.12	18.30	5.71	3.52	0.08
15.75	5.39	3.24	0.12	18.35	5.72	3.53	0.08
15.80	5.40	3.24	0.12	18.40	5.72	3.53	0.07
15.85	5.41	3.25	0.12	18.45	5.73	3.53	0.07
15.90	5.42	3.26	0.12	18.50	5.73	3.54	0.07
15.95	5.42	3.27	0.12	18.55	5.73	3.54	0.07
16.00	5.43	3.27	0.12	18.60	5.74	3.55	0.07
16.05	5.44	3.28	0.11	18.65	5.74	3.55	0.07
16.10	5.45	3.29	0.11	18.70	5.75	3.56	0.07
16.15	5.45	3.29	0.11	18.75	5.75	3.56	0.07
16.20	5.46	3.30	0.11	18.80	5.76	3.56	0.07
16.25	5.47	3.30	0.11	18.85	5.76	3.57	0.07
16.30	5.47	3.31	0.11	18.90	5.77	3.57	0.07
16.35	5.48	3.32	0.11	18.95	5.77	3.58	0.07
16.40	5.49	3.32	0.11	19.00	5.78	3.58	0.07
16.45	5.50	3.33	0.11	19.05	5.78	3.59	0.07
16.50	5.50	3.34	0.11	19.10	5.79	3.59	0.07
16.55	5.51	3.34	0.11	19.15	5.79	3.59	0.07
16.60	5.52	3.35	0.10	19.20	5.80	3.60	0.07
16.65	5.52	3.35	0.10	19.25	5.80	3.60	0.07
16.70	5.53	3.36	0.10	19.30	5.81	3.61	0.07
16.75	5.54	3.37	0.10	19.35	5.81	3.61	0.07
16.80	5.54	3.37	0.10	19.40	5.81	3.61	0.07
16.85	5.55	3.38	0.10	19.45	5.82	3.62	0.07
16.90	5.56	3.38	0.10	19.50	5.82	3.62	0.07
16.95	5.56	3.39	0.10	19.55	5.83	3.63	0.07
17.00	5.57	3.39	0.10	19.60	5.83	3.63	0.07
17.05	5.57	3.40	0.10	19.65	5.84	3.63	0.07
17.10	5.58	3.41	0.10	19.70	5.84	3.64	0.07
17.15	5.59	3.41	0.09	19.75	5.85	3.64	0.07
17.20	5.59	3.42	0.09	19.80	5.85	3.65	0.07
17.25	5.60	3.42	0.09	19.85	5.85	3.65	0.07
17.30	5.60	3.43	0.09	19.90	5.86	3.65	0.07
17.35	5.61	3.43	0.09	19.95	5.86	3.66	0.07
17.40	5.62	3.44	0.09	20.00	5.87	3.66	0.07
17.45	5.62	3.44	0.09	20.05	5.87	3.67	0.07
17.50	5.63	3.45	0.09	20.10	5.88	3.67	0.07
17.55	5.63	3.45	0.09	20.15	5.88	3.67	0.07
17.60	5.64	3.46	0.09	20.20	5.89	3.68	0.07
17.65	5.64	3.46	0.09	20.25	5.89	3.68	0.07
17.70	5.65	3.47	0.08	20.30	5.89	3.69	0.07
17.75	5.66	3.47	0.08	20.35	5.90	3.69	0.07
17.80	5.66	3.48	0.08	20.40	5.90	3.69	0.07
17.85	5.67	3.48	0.08	20.45	5.91	3.70	0.07
17.90	5.67	3.49	0.08	20.50	5.91	3.70	0.07
17.95	5.68	3.49	0.08	20.55	5.92	3.70	0.07
18.00	5.68	3.49	0.08	20.60	5.92	3.71	0.07
18.05	5.69	3.50	0.08	20.65	5.92	3.71	0.06
18.10	5.69	3.50	0.08	20.70	5.93	3.72	0.06
18.15	5.70	3.51	0.08	20.75	5.93	3.72	0.06

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.94	3.72	0.06	23.40	6.13	3.90	0.05
20.85	5.94	3.73	0.06	23.45	6.13	3.90	0.05
20.90	5.94	3.73	0.06	23.50	6.14	3.90	0.05
20.95	5.95	3.73	0.06	23.55	6.14	3.91	0.05
21.00	5.95	3.74	0.06	23.60	6.14	3.91	0.05
21.05	5.96	3.74	0.06	23.65	6.15	3.91	0.05
21.10	5.96	3.75	0.06	23.70	6.15	3.92	0.05
21.15	5.96	3.75	0.06	23.75	6.15	3.92	0.05
21.20	5.97	3.75	0.06	23.80	6.16	3.92	0.05
21.25	5.97	3.76	0.06	23.85	6.16	3.92	0.05
21.30	5.98	3.76	0.06	23.90	6.16	3.93	0.05
21.35	5.98	3.76	0.06	23.95	6.17	3.93	0.05
21.40	5.98	3.77	0.06	24.00	**6.17**	**3.93**	0.06
21.45	5.99	3.77	0.06				
21.50	5.99	3.77	0.06				
21.55	6.00	3.78	0.06				
21.60	6.00	3.78	0.06				
21.65	6.00	3.78	0.06				
21.70	6.01	3.79	0.06				
21.75	6.01	3.79	0.06				
21.80	6.02	3.80	0.06				
21.85	6.02	3.80	0.06				
21.90	6.02	3.80	0.06				
21.95	6.03	3.81	0.06				
22.00	6.03	3.81	0.06				
22.05	6.03	3.81	0.06				
22.10	6.04	3.82	0.06				
22.15	6.04	3.82	0.06				
22.20	6.05	3.82	0.06				
22.25	6.05	3.83	0.06				
22.30	6.05	3.83	0.06				
22.35	6.06	3.83	0.06				
22.40	6.06	3.84	0.06				
22.45	6.06	3.84	0.06				
22.50	6.07	3.84	0.06				
22.55	6.07	3.85	0.06				
22.60	6.07	3.85	0.06				
22.65	6.08	3.85	0.06				
22.70	6.08	3.85	0.06				
22.75	6.09	3.86	0.05				
22.80	6.09	3.86	0.05				
22.85	6.09	3.86	0.05				
22.90	6.10	3.87	0.05				
22.95	6.10	3.87	0.05				
23.00	6.10	3.87	0.05				
23.05	6.11	3.88	0.05				
23.10	6.11	3.88	0.05				
23.15	6.11	3.88	0.05				
23.20	6.12	3.89	0.05				
23.25	6.12	3.89	0.05				
23.30	6.12	3.89	0.05				
23.35	6.13	3.90	0.05				

Summary for Subcatchment EDA4 IMP: EDA4 IMP

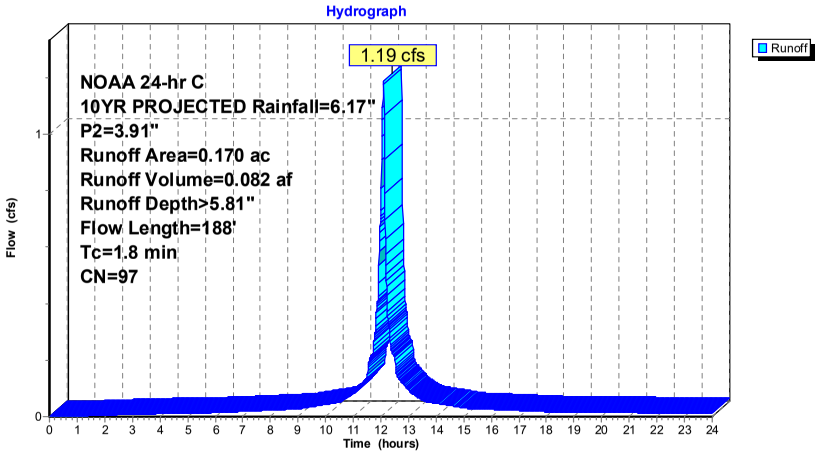
Runoff = 1.19 cfs @ 12.10 hrs, Volume= 0.082 af, Depth> 5.81"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR PROJECTED Rainfall=6.17", P2=3.91"

	Area (ac)	CN	Description
*	0.120	98	Impervious vehicular
	0.050	96	Gravel surface, HSG D
	0.170	97	Weighted Average
	0.050		29.41% Pervious Area
	0.120		70.59% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0160	1.39		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	88	0.0150	2.49		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
1.8	188	Total			

Subcatchment EDA4 IMP: EDA4 IMP



Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.04	0.01
0.05	0.00	0.00	0.00	2.65	0.19	0.04	0.01
0.10	0.01	0.00	0.00	2.70	0.19	0.04	0.01
0.15	0.01	0.00	0.00	2.75	0.20	0.04	0.01
0.20	0.01	0.00	0.00	2.80	0.20	0.04	0.01
0.25	0.02	0.00	0.00	2.85	0.21	0.05	0.01
0.30	0.02	0.00	0.00	2.90	0.21	0.05	0.01
0.35	0.02	0.00	0.00	2.95	0.21	0.05	0.01
0.40	0.03	0.00	0.00	3.00	0.22	0.05	0.01
0.45	0.03	0.00	0.00	3.05	0.22	0.05	0.01
0.50	0.03	0.00	0.00	3.10	0.23	0.06	0.01
0.55	0.04	0.00	0.00	3.15	0.23	0.06	0.01
0.60	0.04	0.00	0.00	3.20	0.23	0.06	0.01
0.65	0.04	0.00	0.00	3.25	0.24	0.06	0.01
0.70	0.05	0.00	0.00	3.30	0.24	0.07	0.01
0.75	0.05	0.00	0.00	3.35	0.25	0.07	0.01
0.80	0.05	0.00	0.00	3.40	0.25	0.07	0.01
0.85	0.06	0.00	0.00	3.45	0.25	0.07	0.01
0.90	0.06	0.00	0.00	3.50	0.26	0.08	0.01
0.95	0.06	0.00	0.00	3.55	0.26	0.08	0.01
1.00	0.07	0.00	0.00	3.60	0.27	0.08	0.01
1.05	0.07	0.00	0.00	3.65	0.27	0.08	0.01
1.10	0.07	0.00	0.00	3.70	0.28	0.09	0.01
1.15	0.08	0.00	0.00	3.75	0.28	0.09	0.01
1.20	0.08	0.00	0.00	3.80	0.28	0.09	0.01
1.25	0.08	0.00	0.00	3.85	0.29	0.10	0.01
1.30	0.09	0.00	0.00	3.90	0.29	0.10	0.01
1.35	0.09	0.00	0.00	3.95	0.30	0.10	0.01
1.40	0.10	0.00	0.00	4.00	0.30	0.10	0.01
1.45	0.10	0.00	0.00	4.05	0.31	0.11	0.01
1.50	0.10	0.00	0.00	4.10	0.31	0.11	0.01
1.55	0.11	0.01	0.00	4.15	0.32	0.11	0.01
1.60	0.11	0.01	0.00	4.20	0.32	0.12	0.01
1.65	0.11	0.01	0.00	4.25	0.32	0.12	0.01
1.70	0.12	0.01	0.00	4.30	0.33	0.12	0.01
1.75	0.12	0.01	0.00	4.35	0.33	0.13	0.01
1.80	0.12	0.01	0.00	4.40	0.34	0.13	0.01
1.85	0.13	0.01	0.00	4.45	0.34	0.13	0.01
1.90	0.13	0.01	0.00	4.50	0.35	0.14	0.01
1.95	0.14	0.01	0.00	4.55	0.35	0.14	0.01
2.00	0.14	0.02	0.00	4.60	0.36	0.14	0.01
2.05	0.14	0.02	0.00	4.65	0.36	0.15	0.01
2.10	0.15	0.02	0.00	4.70	0.36	0.15	0.01
2.15	0.15	0.02	0.01	4.75	0.37	0.15	0.01
2.20	0.15	0.02	0.01	4.80	0.37	0.16	0.01
2.25	0.16	0.02	0.01	4.85	0.38	0.16	0.01
2.30	0.16	0.02	0.01	4.90	0.38	0.16	0.01
2.35	0.17	0.03	0.01	4.95	0.39	0.17	0.01
2.40	0.17	0.03	0.01	5.00	0.39	0.17	0.01
2.45	0.17	0.03	0.01	5.05	0.40	0.17	0.01
2.50	0.18	0.03	0.01	5.10	0.40	0.18	0.01
2.55	0.18	0.03	0.01	5.15	0.41	0.18	0.01

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.41	0.19	0.01	7.80	0.71	0.44	0.02
5.25	0.42	0.19	0.01	7.85	0.72	0.45	0.02
5.30	0.42	0.19	0.01	7.90	0.72	0.45	0.02
5.35	0.43	0.20	0.01	7.95	0.73	0.46	0.02
5.40	0.43	0.20	0.01	8.00	0.74	0.47	0.02
5.45	0.44	0.20	0.01	8.05	0.75	0.47	0.02
5.50	0.44	0.21	0.01	8.10	0.75	0.48	0.02
5.55	0.44	0.21	0.01	8.15	0.76	0.49	0.02
5.60	0.45	0.22	0.01	8.20	0.77	0.49	0.02
5.65	0.45	0.22	0.01	8.25	0.78	0.50	0.02
5.70	0.46	0.22	0.01	8.30	0.79	0.51	0.02
5.75	0.46	0.23	0.01	8.35	0.79	0.51	0.02
5.80	0.47	0.23	0.01	8.40	0.80	0.52	0.02
5.85	0.47	0.24	0.01	8.45	0.81	0.53	0.03
5.90	0.48	0.24	0.01	8.50	0.82	0.54	0.03
5.95	0.48	0.24	0.01	8.55	0.83	0.54	0.03
6.00	0.49	0.25	0.01	8.60	0.83	0.55	0.03
6.05	0.49	0.25	0.01	8.65	0.84	0.56	0.03
6.10	0.50	0.26	0.01	8.70	0.85	0.57	0.03
6.15	0.50	0.26	0.01	8.75	0.86	0.57	0.03
6.20	0.51	0.26	0.01	8.80	0.87	0.58	0.03
6.25	0.51	0.27	0.02	8.85	0.88	0.59	0.03
6.30	0.52	0.27	0.02	8.90	0.88	0.60	0.03
6.35	0.53	0.28	0.02	8.95	0.89	0.61	0.03
6.40	0.53	0.28	0.02	9.00	0.90	0.61	0.03
6.45	0.54	0.29	0.02	9.05	0.91	0.62	0.03
6.50	0.54	0.29	0.02	9.10	0.92	0.63	0.03
6.55	0.55	0.30	0.02	9.15	0.93	0.64	0.03
6.60	0.55	0.30	0.02	9.20	0.94	0.65	0.03
6.65	0.56	0.31	0.02	9.25	0.95	0.66	0.03
6.70	0.57	0.31	0.02	9.30	0.96	0.67	0.03
6.75	0.57	0.32	0.02	9.35	0.97	0.68	0.03
6.80	0.58	0.32	0.02	9.40	0.98	0.69	0.03
6.85	0.58	0.33	0.02	9.45	0.99	0.70	0.03
6.90	0.59	0.33	0.02	9.50	1.00	0.71	0.04
6.95	0.60	0.34	0.02	9.55	1.01	0.72	0.04
7.00	0.60	0.34	0.02	9.60	1.02	0.73	0.04
7.05	0.61	0.35	0.02	9.65	1.04	0.74	0.04
7.10	0.61	0.35	0.02	9.70	1.05	0.75	0.04
7.15	0.62	0.36	0.02	9.75	1.06	0.76	0.04
7.20	0.63	0.37	0.02	9.80	1.07	0.77	0.04
7.25	0.63	0.37	0.02	9.85	1.09	0.79	0.04
7.30	0.64	0.38	0.02	9.90	1.10	0.80	0.04
7.35	0.65	0.38	0.02	9.95	1.11	0.81	0.04
7.40	0.65	0.39	0.02	10.00	1.12	0.82	0.04
7.45	0.66	0.39	0.02	10.05	1.14	0.84	0.04
7.50	0.67	0.40	0.02	10.10	1.15	0.85	0.04
7.55	0.67	0.41	0.02	10.15	1.17	0.86	0.05
7.60	0.68	0.41	0.02	10.20	1.18	0.88	0.05
7.65	0.69	0.42	0.02	10.25	1.20	0.89	0.05
7.70	0.70	0.43	0.02	10.30	1.21	0.90	0.05
7.75	0.70	0.43	0.02	10.35	1.23	0.92	0.05

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.24	0.93	0.05	13.00	4.69	4.34	0.10
10.45	1.26	0.95	0.05	13.05	4.71	4.36	0.09
10.50	1.27	0.96	0.05	13.10	4.74	4.39	0.08
10.55	1.29	0.98	0.06	13.15	4.76	4.41	0.08
10.60	1.31	1.00	0.06	13.20	4.78	4.43	0.08
10.65	1.33	1.02	0.06	13.25	4.80	4.45	0.07
10.70	1.34	1.03	0.06	13.30	4.83	4.47	0.07
10.75	1.37	1.05	0.07	13.35	4.84	4.49	0.07
10.80	1.39	1.07	0.07	13.40	4.86	4.51	0.07
10.85	1.41	1.10	0.07	13.45	4.88	4.53	0.06
10.90	1.43	1.12	0.07	13.50	4.90	4.55	0.06
10.95	1.46	1.14	0.08	13.55	4.91	4.56	0.06
11.00	1.48	1.16	0.08	13.60	4.93	4.58	0.05
11.05	1.51	1.19	0.09	13.65	4.94	4.59	0.05
11.10	1.54	1.22	0.09	13.70	4.96	4.61	0.05
11.15	1.57	1.25	0.10	13.75	4.97	4.62	0.05
11.20	1.60	1.28	0.10	13.80	4.99	4.64	0.05
11.25	1.63	1.31	0.11	13.85	5.00	4.65	0.05
11.30	1.67	1.35	0.11	13.90	5.02	4.66	0.05
11.35	1.70	1.38	0.12	13.95	5.03	4.68	0.05
11.40	1.74	1.42	0.13	14.00	5.05	4.69	0.05
11.45	1.78	1.46	0.13	14.05	5.06	4.71	0.05
11.50	1.82	1.50	0.13	14.10	5.07	4.72	0.05
11.55	1.89	1.56	0.18	14.15	5.08	4.73	0.04
11.60	1.95	1.62	0.20	14.20	5.10	4.74	0.04
11.65	2.01	1.68	0.22	14.25	5.11	4.76	0.04
11.70	2.08	1.75	0.22	14.30	5.12	4.77	0.04
11.75	2.17	1.84	0.27	14.35	5.13	4.78	0.04
11.80	2.26	1.93	0.30	14.40	5.15	4.79	0.04
11.85	2.38	2.05	0.38	14.45	5.16	4.80	0.04
11.90	2.51	2.17	0.41	14.50	5.17	4.82	0.04
11.95	2.72	2.39	0.62	14.55	5.18	4.83	0.04
12.00	2.94	2.60	0.71	14.60	5.19	4.84	0.04
12.05	3.30	2.96	1.05	14.65	5.20	4.85	0.04
12.10	3.66	3.31	**1.19**	14.70	5.21	4.86	0.04
12.15	3.79	3.44	0.70	14.75	5.22	4.87	0.03
12.20	3.91	3.56	0.48	14.80	5.23	4.88	0.03
12.25	4.00	3.65	0.36	14.85	5.24	4.89	0.03
12.30	4.09	3.74	0.32	14.90	5.25	4.90	0.03
12.35	4.16	3.81	0.25	14.95	5.26	4.91	0.03
12.40	4.22	3.87	0.23	15.00	5.27	4.92	0.03
12.45	4.28	3.93	0.22	15.05	5.28	4.92	0.03
12.50	4.35	4.00	0.21	15.10	5.29	4.93	0.03
12.55	4.39	4.04	0.16	15.15	5.29	4.94	0.03
12.60	4.43	4.08	0.14	15.20	5.30	4.95	0.03
12.65	4.47	4.11	0.13	15.25	5.31	4.96	0.03
12.70	4.50	4.15	0.13	15.30	5.32	4.97	0.03
12.75	4.54	4.19	0.12	15.35	5.33	4.97	0.03
12.80	4.57	4.22	0.12	15.40	5.34	4.98	0.03
12.85	4.60	4.25	0.11	15.45	5.34	4.99	0.03
12.90	4.63	4.28	0.11	15.50	5.35	5.00	0.03
12.95	4.66	4.31	0.10	15.55	5.36	5.01	0.03

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.37	5.01	0.03	18.20	5.70	5.35	0.02
15.65	5.38	5.02	0.03	18.25	5.71	5.35	0.02
15.70	5.38	5.03	0.03	18.30	5.71	5.36	0.02
15.75	5.39	5.04	0.03	18.35	5.72	5.36	0.02
15.80	5.40	5.05	0.03	18.40	5.72	5.37	0.02
15.85	5.41	5.05	0.03	18.45	5.73	5.37	0.02
15.90	5.42	5.06	0.03	18.50	5.73	5.37	0.02
15.95	5.42	5.07	0.03	18.55	5.73	5.38	0.02
16.00	5.43	5.08	0.03	18.60	5.74	5.38	0.02
16.05	5.44	5.08	0.03	18.65	5.74	5.39	0.02
16.10	5.45	5.09	0.03	18.70	5.75	5.39	0.02
16.15	5.45	5.10	0.03	18.75	5.75	5.40	0.02
16.20	5.46	5.11	0.03	18.80	5.76	5.40	0.02
16.25	5.47	5.11	0.02	18.85	5.76	5.41	0.02
16.30	5.47	5.12	0.02	18.90	5.77	5.41	0.02
16.35	5.48	5.13	0.02	18.95	5.77	5.42	0.02
16.40	5.49	5.13	0.02	19.00	5.78	5.42	0.02
16.45	5.50	5.14	0.02	19.05	5.78	5.43	0.02
16.50	5.50	5.15	0.02	19.10	5.79	5.43	0.02
16.55	5.51	5.15	0.02	19.15	5.79	5.44	0.02
16.60	5.52	5.16	0.02	19.20	5.80	5.44	0.02
16.65	5.52	5.17	0.02	19.25	5.80	5.45	0.02
16.70	5.53	5.17	0.02	19.30	5.81	5.45	0.02
16.75	5.54	5.18	0.02	19.35	5.81	5.45	0.02
16.80	5.54	5.19	0.02	19.40	5.81	5.46	0.02
16.85	5.55	5.19	0.02	19.45	5.82	5.46	0.02
16.90	5.56	5.20	0.02	19.50	5.82	5.47	0.02
16.95	5.56	5.21	0.02	19.55	5.83	5.47	0.02
17.00	5.57	5.21	0.02	19.60	5.83	5.48	0.02
17.05	5.57	5.22	0.02	19.65	5.84	5.48	0.02
17.10	5.58	5.23	0.02	19.70	5.84	5.49	0.02
17.15	5.59	5.23	0.02	19.75	5.85	5.49	0.02
17.20	5.59	5.24	0.02	19.80	5.85	5.50	0.02
17.25	5.60	5.24	0.02	19.85	5.85	5.50	0.02
17.30	5.60	5.25	0.02	19.90	5.86	5.50	0.02
17.35	5.61	5.26	0.02	19.95	5.86	5.51	0.02
17.40	5.62	5.26	0.02	20.00	5.87	5.51	0.01
17.45	5.62	5.27	0.02	20.05	5.87	5.52	0.01
17.50	5.63	5.27	0.02	20.10	5.88	5.52	0.01
17.55	5.63	5.28	0.02	20.15	5.88	5.53	0.01
17.60	5.64	5.28	0.02	20.20	5.89	5.53	0.01
17.65	5.64	5.29	0.02	20.25	5.89	5.53	0.01
17.70	5.65	5.29	0.02	20.30	5.89	5.54	0.01
17.75	5.66	5.30	0.02	20.35	5.90	5.54	0.01
17.80	5.66	5.31	0.02	20.40	5.90	5.55	0.01
17.85	5.67	5.31	0.02	20.45	5.91	5.55	0.01
17.90	5.67	5.32	0.02	20.50	5.91	5.56	0.01
17.95	5.68	5.32	0.02	20.55	5.92	5.56	0.01
18.00	5.68	5.33	0.02	20.60	5.92	5.56	0.01
18.05	5.69	5.33	0.02	20.65	5.92	5.57	0.01
18.10	5.69	5.34	0.02	20.70	5.93	5.57	0.01
18.15	5.70	5.34	0.02	20.75	5.93	5.58	0.01

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.94	5.58	0.01	23.40	6.13	5.77	0.01
20.85	5.94	5.58	0.01	23.45	6.13	5.78	0.01
20.90	5.94	5.59	0.01	23.50	6.14	5.78	0.01
20.95	5.95	5.59	0.01	23.55	6.14	5.78	0.01
21.00	5.95	5.60	0.01	23.60	6.14	5.79	0.01
21.05	5.96	5.60	0.01	23.65	6.15	5.79	0.01
21.10	5.96	5.60	0.01	23.70	6.15	5.79	0.01
21.15	5.96	5.61	0.01	23.75	6.15	5.80	0.01
21.20	5.97	5.61	0.01	23.80	6.16	5.80	0.01
21.25	5.97	5.62	0.01	23.85	6.16	5.80	0.01
21.30	5.98	5.62	0.01	23.90	6.16	5.81	0.01
21.35	5.98	5.62	0.01	23.95	6.17	5.81	0.01
21.40	5.98	5.63	0.01	24.00	**6.17**	**5.81**	0.01
21.45	5.99	5.63	0.01				
21.50	5.99	5.64	0.01				
21.55	6.00	5.64	0.01				
21.60	6.00	5.64	0.01				
21.65	6.00	5.65	0.01				
21.70	6.01	5.65	0.01				
21.75	6.01	5.66	0.01				
21.80	6.02	5.66	0.01				
21.85	6.02	5.66	0.01				
21.90	6.02	5.67	0.01				
21.95	6.03	5.67	0.01				
22.00	6.03	5.67	0.01				
22.05	6.03	5.68	0.01				
22.10	6.04	5.68	0.01				
22.15	6.04	5.69	0.01				
22.20	6.05	5.69	0.01				
22.25	6.05	5.69	0.01				
22.30	6.05	5.70	0.01				
22.35	6.06	5.70	0.01				
22.40	6.06	5.70	0.01				
22.45	6.06	5.71	0.01				
22.50	6.07	5.71	0.01				
22.55	6.07	5.71	0.01				
22.60	6.07	5.72	0.01				
22.65	6.08	5.72	0.01				
22.70	6.08	5.73	0.01				
22.75	6.09	5.73	0.01				
22.80	6.09	5.73	0.01				
22.85	6.09	5.74	0.01				
22.90	6.10	5.74	0.01				
22.95	6.10	5.74	0.01				
23.00	6.10	5.75	0.01				
23.05	6.11	5.75	0.01				
23.10	6.11	5.75	0.01				
23.15	6.11	5.76	0.01				
23.20	6.12	5.76	0.01				
23.25	6.12	5.76	0.01				
23.30	6.12	5.77	0.01				
23.35	6.13	5.77	0.01				

Summary for Subcatchment EDA4 PERV: EDA4 PERV

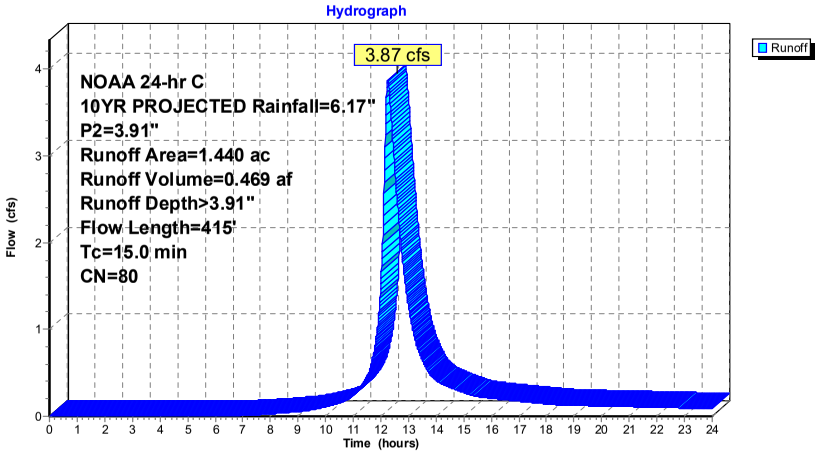
Runoff = 3.87 cfs @ 12.26 hrs, Volume= 0.469 af, Depth> 3.91"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR PROJECTED Rainfall=6.17", P2=3.91"

Area (ac)	CN	Description
1.440	80	>75% Grass cover, Good, HSG D
1.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.8	100	0.0080	0.13		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
1.1	115	0.0140	1.77		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
0.5	100	0.0039	3.22	5.69	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.6	100	0.0020	2.79	8.77	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
15.0	415	Total			

Subcatchment EDA4 PERV: EDA4 PERV



Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.19	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.19	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.20	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.20	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.21	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.21	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.21	0.00	0.00
0.40	0.03	0.00	0.00	3.00	0.22	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.22	0.00	0.00
0.50	0.03	0.00	0.00	3.10	0.23	0.00	0.00
0.55	0.04	0.00	0.00	3.15	0.23	0.00	0.00
0.60	0.04	0.00	0.00	3.20	0.23	0.00	0.00
0.65	0.04	0.00	0.00	3.25	0.24	0.00	0.00
0.70	0.05	0.00	0.00	3.30	0.24	0.00	0.00
0.75	0.05	0.00	0.00	3.35	0.25	0.00	0.00
0.80	0.05	0.00	0.00	3.40	0.25	0.00	0.00
0.85	0.06	0.00	0.00	3.45	0.25	0.00	0.00
0.90	0.06	0.00	0.00	3.50	0.26	0.00	0.00
0.95	0.06	0.00	0.00	3.55	0.26	0.00	0.00
1.00	0.07	0.00	0.00	3.60	0.27	0.00	0.00
1.05	0.07	0.00	0.00	3.65	0.27	0.00	0.00
1.10	0.07	0.00	0.00	3.70	0.28	0.00	0.00
1.15	0.08	0.00	0.00	3.75	0.28	0.00	0.00
1.20	0.08	0.00	0.00	3.80	0.28	0.00	0.00
1.25	0.08	0.00	0.00	3.85	0.29	0.00	0.00
1.30	0.09	0.00	0.00	3.90	0.29	0.00	0.00
1.35	0.09	0.00	0.00	3.95	0.30	0.00	0.00
1.40	0.10	0.00	0.00	4.00	0.30	0.00	0.00
1.45	0.10	0.00	0.00	4.05	0.31	0.00	0.00
1.50	0.10	0.00	0.00	4.10	0.31	0.00	0.00
1.55	0.11	0.00	0.00	4.15	0.32	0.00	0.00
1.60	0.11	0.00	0.00	4.20	0.32	0.00	0.00
1.65	0.11	0.00	0.00	4.25	0.32	0.00	0.00
1.70	0.12	0.00	0.00	4.30	0.33	0.00	0.00
1.75	0.12	0.00	0.00	4.35	0.33	0.00	0.00
1.80	0.12	0.00	0.00	4.40	0.34	0.00	0.00
1.85	0.13	0.00	0.00	4.45	0.34	0.00	0.00
1.90	0.13	0.00	0.00	4.50	0.35	0.00	0.00
1.95	0.14	0.00	0.00	4.55	0.35	0.00	0.00
2.00	0.14	0.00	0.00	4.60	0.36	0.00	0.00
2.05	0.14	0.00	0.00	4.65	0.36	0.00	0.00
2.10	0.15	0.00	0.00	4.70	0.36	0.00	0.00
2.15	0.15	0.00	0.00	4.75	0.37	0.00	0.00
2.20	0.15	0.00	0.00	4.80	0.37	0.00	0.00
2.25	0.16	0.00	0.00	4.85	0.38	0.00	0.00
2.30	0.16	0.00	0.00	4.90	0.38	0.00	0.00
2.35	0.17	0.00	0.00	4.95	0.39	0.00	0.00
2.40	0.17	0.00	0.00	5.00	0.39	0.00	0.00
2.45	0.17	0.00	0.00	5.05	0.40	0.00	0.00
2.50	0.18	0.00	0.00	5.10	0.40	0.00	0.00
2.55	0.18	0.00	0.00	5.15	0.41	0.00	0.00

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.41	0.00	0.00	7.80	0.71	0.02	0.02
5.25	0.42	0.00	0.00	7.85	0.72	0.02	0.02
5.30	0.42	0.00	0.00	7.90	0.72	0.02	0.02
5.35	0.43	0.00	0.00	7.95	0.73	0.02	0.03
5.40	0.43	0.00	0.00	8.00	0.74	0.02	0.03
5.45	0.44	0.00	0.00	8.05	0.75	0.02	0.03
5.50	0.44	0.00	0.00	8.10	0.75	0.02	0.03
5.55	0.44	0.00	0.00	8.15	0.76	0.02	0.03
5.60	0.45	0.00	0.00	8.20	0.77	0.03	0.03
5.65	0.45	0.00	0.00	8.25	0.78	0.03	0.03
5.70	0.46	0.00	0.00	8.30	0.79	0.03	0.03
5.75	0.46	0.00	0.00	8.35	0.79	0.03	0.04
5.80	0.47	0.00	0.00	8.40	0.80	0.03	0.04
5.85	0.47	0.00	0.00	8.45	0.81	0.03	0.04
5.90	0.48	0.00	0.00	8.50	0.82	0.04	0.04
5.95	0.48	0.00	0.00	8.55	0.83	0.04	0.04
6.00	0.49	0.00	0.00	8.60	0.83	0.04	0.04
6.05	0.49	0.00	0.00	8.65	0.84	0.04	0.04
6.10	0.50	0.00	0.00	8.70	0.85	0.04	0.04
6.15	0.50	0.00	0.00	8.75	0.86	0.04	0.05
6.20	0.51	0.00	0.00	8.80	0.87	0.05	0.05
6.25	0.51	0.00	0.00	8.85	0.88	0.05	0.05
6.30	0.52	0.00	0.00	8.90	0.88	0.05	0.05
6.35	0.53	0.00	0.00	8.95	0.89	0.05	0.05
6.40	0.53	0.00	0.00	9.00	0.90	0.06	0.05
6.45	0.54	0.00	0.00	9.05	0.91	0.06	0.06
6.50	0.54	0.00	0.00	9.10	0.92	0.06	0.06
6.55	0.55	0.00	0.00	9.15	0.93	0.06	0.06
6.60	0.55	0.00	0.00	9.20	0.94	0.07	0.06
6.65	0.56	0.00	0.00	9.25	0.95	0.07	0.06
6.70	0.57	0.00	0.00	9.30	0.96	0.07	0.06
6.75	0.57	0.00	0.00	9.35	0.97	0.07	0.07
6.80	0.58	0.00	0.00	9.40	0.98	0.08	0.07
6.85	0.58	0.00	0.01	9.45	0.99	0.08	0.07
6.90	0.59	0.00	0.01	9.50	1.00	0.08	0.08
6.95	0.60	0.00	0.01	9.55	1.01	0.09	0.08
7.00	0.60	0.00	0.01	9.60	1.02	0.09	0.08
7.05	0.61	0.00	0.01	9.65	1.04	0.09	0.08
7.10	0.61	0.01	0.01	9.70	1.05	0.10	0.09
7.15	0.62	0.01	0.01	9.75	1.06	0.10	0.09
7.20	0.63	0.01	0.01	9.80	1.07	0.11	0.09
7.25	0.63	0.01	0.01	9.85	1.09	0.11	0.10
7.30	0.64	0.01	0.01	9.90	1.10	0.12	0.10
7.35	0.65	0.01	0.01	9.95	1.11	0.12	0.11
7.40	0.65	0.01	0.01	10.00	1.12	0.12	0.11
7.45	0.66	0.01	0.02	10.05	1.14	0.13	0.11
7.50	0.67	0.01	0.02	10.10	1.15	0.14	0.12
7.55	0.67	0.01	0.02	10.15	1.17	0.14	0.12
7.60	0.68	0.01	0.02	10.20	1.18	0.15	0.13
7.65	0.69	0.01	0.02	10.25	1.20	0.15	0.13
7.70	0.70	0.01	0.02	10.30	1.21	0.16	0.13
7.75	0.70	0.02	0.02	10.35	1.23	0.16	0.14

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.24	0.17	0.14	13.00	4.69	2.62	1.27
10.45	1.26	0.18	0.15	13.05	4.71	2.64	1.18
10.50	1.27	0.18	0.15	13.10	4.74	2.67	1.09
10.55	1.29	0.19	0.16	13.15	4.76	2.69	1.01
10.60	1.31	0.20	0.16	13.20	4.78	2.70	0.93
10.65	1.33	0.20	0.17	13.25	4.80	2.72	0.87
10.70	1.34	0.21	0.18	13.30	4.83	2.74	0.82
10.75	1.37	0.22	0.19	13.35	4.84	2.76	0.77
10.80	1.39	0.23	0.20	13.40	4.86	2.77	0.73
10.85	1.41	0.24	0.21	13.45	4.88	2.79	0.69
10.90	1.43	0.25	0.22	13.50	4.90	2.80	0.65
10.95	1.46	0.26	0.23	13.55	4.91	2.82	0.61
11.00	1.48	0.28	0.24	13.60	4.93	2.83	0.58
11.05	1.51	0.29	0.26	13.65	4.94	2.84	0.55
11.10	1.54	0.30	0.27	13.70	4.96	2.86	0.52
11.15	1.57	0.32	0.29	13.75	4.97	2.87	0.49
11.20	1.60	0.34	0.31	13.80	4.99	2.88	0.47
11.25	1.63	0.35	0.33	13.85	5.00	2.90	0.46
11.30	1.67	0.37	0.35	13.90	5.02	2.91	0.44
11.35	1.70	0.39	0.38	13.95	5.03	2.92	0.43
11.40	1.74	0.41	0.40	14.00	5.05	2.93	0.41
11.45	1.78	0.44	0.43	14.05	5.06	2.94	0.40
11.50	1.82	0.46	0.46	14.10	5.07	2.96	0.39
11.55	1.89	0.49	0.49	14.15	5.08	2.97	0.38
11.60	1.95	0.53	0.53	14.20	5.10	2.98	0.38
11.65	2.01	0.57	0.59	14.25	5.11	2.99	0.37
11.70	2.08	0.61	0.67	14.30	5.12	3.00	0.36
11.75	2.17	0.67	0.75	14.35	5.13	3.01	0.35
11.80	2.26	0.73	0.83	14.40	5.15	3.02	0.35
11.85	2.38	0.81	0.94	14.45	5.16	3.03	0.34
11.90	2.51	0.90	1.08	14.50	5.17	3.04	0.33
11.95	2.72	1.05	1.27	14.55	5.18	3.05	0.33
12.00	2.94	1.21	1.52	14.60	5.19	3.06	0.32
12.05	3.30	1.48	1.90	14.65	5.20	3.07	0.31
12.10	3.66	1.76	2.43	14.70	5.21	3.08	0.31
12.15	3.79	1.87	3.10	14.75	5.22	3.09	0.30
12.20	3.91	1.97	3.68	14.80	5.23	3.10	0.30
12.25	4.00	2.04	**3.87**	14.85	5.24	3.10	0.29
12.30	4.09	2.12	**3.76**	14.90	5.25	3.11	0.28
12.35	4.16	2.17	3.56	14.95	5.26	3.12	0.28
12.40	4.22	2.23	3.33	15.00	5.27	3.13	0.27
12.45	4.28	2.28	3.09	15.05	5.28	3.14	0.27
12.50	4.35	2.33	2.86	15.10	5.29	3.14	0.26
12.55	4.39	2.37	2.66	15.15	5.29	3.15	0.25
12.60	4.43	2.40	2.46	15.20	5.30	3.16	0.25
12.65	4.47	2.43	2.27	15.25	5.31	3.17	0.24
12.70	4.50	2.46	2.07	15.30	5.32	3.17	0.24
12.75	4.54	2.49	1.90	15.35	5.33	3.18	0.24
12.80	4.57	2.52	1.75	15.40	5.34	3.19	0.23
12.85	4.60	2.55	1.61	15.45	5.34	3.20	0.23
12.90	4.63	2.58	1.49	15.50	5.35	3.20	0.23
12.95	4.66	2.60	1.38	15.55	5.36	3.21	0.22

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.37	3.22	0.22	18.20	5.70	3.51	0.14
15.65	5.38	3.22	0.22	18.25	5.71	3.52	0.14
15.70	5.38	3.23	0.22	18.30	5.71	3.52	0.13
15.75	5.39	3.24	0.21	18.35	5.72	3.53	0.13
15.80	5.40	3.24	0.21	18.40	5.72	3.53	0.13
15.85	5.41	3.25	0.21	18.45	5.73	3.53	0.13
15.90	5.42	3.26	0.21	18.50	5.73	3.54	0.13
15.95	5.42	3.27	0.21	18.55	5.73	3.54	0.13
16.00	5.43	3.27	0.21	18.60	5.74	3.55	0.13
16.05	5.44	3.28	0.20	18.65	5.74	3.55	0.13
16.10	5.45	3.29	0.20	18.70	5.75	3.56	0.13
16.15	5.45	3.29	0.20	18.75	5.75	3.56	0.13
16.20	5.46	3.30	0.20	18.80	5.76	3.56	0.13
16.25	5.47	3.30	0.20	18.85	5.76	3.57	0.13
16.30	5.47	3.31	0.20	18.90	5.77	3.57	0.13
16.35	5.48	3.32	0.19	18.95	5.77	3.58	0.13
16.40	5.49	3.32	0.19	19.00	5.78	3.58	0.12
16.45	5.50	3.33	0.19	19.05	5.78	3.59	0.12
16.50	5.50	3.34	0.19	19.10	5.79	3.59	0.12
16.55	5.51	3.34	0.19	19.15	5.79	3.59	0.12
16.60	5.52	3.35	0.19	19.20	5.80	3.60	0.12
16.65	5.52	3.35	0.18	19.25	5.80	3.60	0.12
16.70	5.53	3.36	0.18	19.30	5.81	3.61	0.12
16.75	5.54	3.37	0.18	19.35	5.81	3.61	0.12
16.80	5.54	3.37	0.18	19.40	5.81	3.61	0.12
16.85	5.55	3.38	0.18	19.45	5.82	3.62	0.12
16.90	5.56	3.38	0.18	19.50	5.82	3.62	0.12
16.95	5.56	3.39	0.18	19.55	5.83	3.63	0.12
17.00	5.57	3.39	0.17	19.60	5.83	3.63	0.12
17.05	5.57	3.40	0.17	19.65	5.84	3.63	0.12
17.10	5.58	3.41	0.17	19.70	5.84	3.64	0.12
17.15	5.59	3.41	0.17	19.75	5.85	3.64	0.12
17.20	5.59	3.42	0.17	19.80	5.85	3.65	0.12
17.25	5.60	3.42	0.17	19.85	5.85	3.65	0.12
17.30	5.60	3.43	0.16	19.90	5.86	3.65	0.12
17.35	5.61	3.43	0.16	19.95	5.86	3.66	0.12
17.40	5.62	3.44	0.16	20.00	5.87	3.66	0.12
17.45	5.62	3.44	0.16	20.05	5.87	3.67	0.12
17.50	5.63	3.45	0.16	20.10	5.88	3.67	0.12
17.55	5.63	3.45	0.16	20.15	5.88	3.67	0.12
17.60	5.64	3.46	0.16	20.20	5.89	3.68	0.12
17.65	5.64	3.46	0.15	20.25	5.89	3.68	0.12
17.70	5.65	3.47	0.15	20.30	5.89	3.69	0.11
17.75	5.66	3.47	0.15	20.35	5.90	3.69	0.11
17.80	5.66	3.48	0.15	20.40	5.90	3.69	0.11
17.85	5.67	3.48	0.15	20.45	5.91	3.70	0.11
17.90	5.67	3.49	0.15	20.50	5.91	3.70	0.11
17.95	5.68	3.49	0.14	20.55	5.92	3.70	0.11
18.00	5.68	3.49	0.14	20.60	5.92	3.71	0.11
18.05	5.69	3.50	0.14	20.65	5.92	3.71	0.11
18.10	5.69	3.50	0.14	20.70	5.93	3.72	0.11
18.15	5.70	3.51	0.14	20.75	5.93	3.72	0.11

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

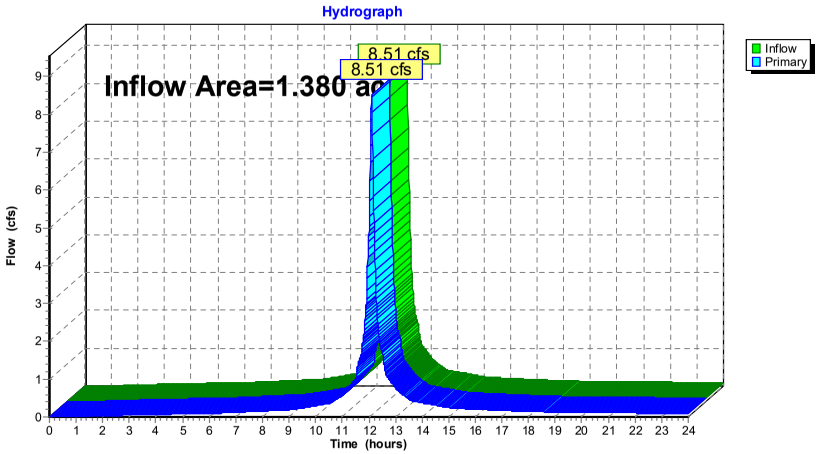
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.94	3.72	0.11	23.40	6.13	3.90	0.09
20.85	5.94	3.73	0.11	23.45	6.13	3.90	0.09
20.90	5.94	3.73	0.11	23.50	6.14	3.90	0.09
20.95	5.95	3.73	0.11	23.55	6.14	3.91	0.09
21.00	5.95	3.74	0.11	23.60	6.14	3.91	0.09
21.05	5.96	3.74	0.11	23.65	6.15	3.91	0.09
21.10	5.96	3.75	0.11	23.70	6.15	3.92	0.09
21.15	5.96	3.75	0.11	23.75	6.15	3.92	0.09
21.20	5.97	3.75	0.11	23.80	6.16	3.92	0.09
21.25	5.97	3.76	0.11	23.85	6.16	3.92	0.09
21.30	5.98	3.76	0.11	23.90	6.16	3.93	0.09
21.35	5.98	3.76	0.11	23.95	6.17	3.93	0.09
21.40	5.98	3.77	0.11	24.00	**6.17**	**3.93**	0.09
21.45	5.99	3.77	0.11				
21.50	5.99	3.77	0.11				
21.55	6.00	3.78	0.11				
21.60	6.00	3.78	0.10				
21.65	6.00	3.78	0.10				
21.70	6.01	3.79	0.10				
21.75	6.01	3.79	0.10				
21.80	6.02	3.80	0.10				
21.85	6.02	3.80	0.10				
21.90	6.02	3.80	0.10				
21.95	6.03	3.81	0.10				
22.00	6.03	3.81	0.10				
22.05	6.03	3.81	0.10				
22.10	6.04	3.82	0.10				
22.15	6.04	3.82	0.10				
22.20	6.05	3.82	0.10				
22.25	6.05	3.83	0.10				
22.30	6.05	3.83	0.10				
22.35	6.06	3.83	0.10				
22.40	6.06	3.84	0.10				
22.45	6.06	3.84	0.10				
22.50	6.07	3.84	0.10				
22.55	6.07	3.85	0.10				
22.60	6.07	3.85	0.10				
22.65	6.08	3.85	0.10				
22.70	6.08	3.85	0.10				
22.75	6.09	3.86	0.10				
22.80	6.09	3.86	0.10				
22.85	6.09	3.86	0.09				
22.90	6.10	3.87	0.09				
22.95	6.10	3.87	0.09				
23.00	6.10	3.87	0.09				
23.05	6.11	3.88	0.09				
23.10	6.11	3.88	0.09				
23.15	6.11	3.88	0.09				
23.20	6.12	3.89	0.09				
23.25	6.12	3.89	0.09				
23.30	6.12	3.89	0.09				
23.35	6.13	3.90	0.09				

Summary for Link E1A: E1A

Inflow Area = 1.380 ac, 54.35% Impervious, Inflow Depth > 5.43" for 10YR PROJECTED event
Inflow = 8.51 cfs @ 12.11 hrs, Volume= 0.624 af
Primary = 8.51 cfs @ 12.11 hrs, Volume= 0.624 af, Atten= 0%, Lag= 0.0 min
Routed to Link EPOI-1 : EPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link E1A: E1A



Hydrograph for Link E1A: E1A

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.04	0.00	0.04
0.05	0.00	0.00	0.00	2.65	0.04	0.00	0.04
0.10	0.00	0.00	0.00	2.70	0.04	0.00	0.04
0.15	0.00	0.00	0.00	2.75	0.04	0.00	0.04
0.20	0.00	0.00	0.00	2.80	0.05	0.00	0.05
0.25	0.00	0.00	0.00	2.85	0.05	0.00	0.05
0.30	0.00	0.00	0.00	2.90	0.05	0.00	0.05
0.35	0.00	0.00	0.00	2.95	0.05	0.00	0.05
0.40	0.00	0.00	0.00	3.00	0.05	0.00	0.05
0.45	0.00	0.00	0.00	3.05	0.05	0.00	0.05
0.50	0.00	0.00	0.00	3.10	0.05	0.00	0.05
0.55	0.00	0.00	0.00	3.15	0.05	0.00	0.05
0.60	0.00	0.00	0.00	3.20	0.05	0.00	0.05
0.65	0.00	0.00	0.00	3.25	0.05	0.00	0.05
0.70	0.00	0.00	0.00	3.30	0.05	0.00	0.05
0.75	0.00	0.00	0.00	3.35	0.05	0.00	0.05
0.80	0.00	0.00	0.00	3.40	0.06	0.00	0.06
0.85	0.00	0.00	0.00	3.45	0.06	0.00	0.06
0.90	0.00	0.00	0.00	3.50	0.06	0.00	0.06
0.95	0.00	0.00	0.00	3.55	0.06	0.00	0.06
1.00	0.00	0.00	0.00	3.60	0.06	0.00	0.06
1.05	0.00	0.00	0.00	3.65	0.06	0.00	0.06
1.10	0.00	0.00	0.00	3.70	0.06	0.00	0.06
1.15	0.00	0.00	0.00	3.75	0.06	0.00	0.06
1.20	0.01	0.00	0.01	3.80	0.06	0.00	0.06
1.25	0.01	0.00	0.01	3.85	0.06	0.00	0.06
1.30	0.01	0.00	0.01	3.90	0.06	0.00	0.06
1.35	0.01	0.00	0.01	3.95	0.06	0.00	0.06
1.40	0.01	0.00	0.01	4.00	0.06	0.00	0.06
1.45	0.01	0.00	0.01	4.05	0.07	0.00	0.07
1.50	0.02	0.00	0.02	4.10	0.07	0.00	0.07
1.55	0.02	0.00	0.02	4.15	0.07	0.00	0.07
1.60	0.02	0.00	0.02	4.20	0.07	0.00	0.07
1.65	0.02	0.00	0.02	4.25	0.07	0.00	0.07
1.70	0.02	0.00	0.02	4.30	0.07	0.00	0.07
1.75	0.02	0.00	0.02	4.35	0.07	0.00	0.07
1.80	0.02	0.00	0.02	4.40	0.07	0.00	0.07
1.85	0.02	0.00	0.02	4.45	0.07	0.00	0.07
1.90	0.03	0.00	0.03	4.50	0.07	0.00	0.07
1.95	0.03	0.00	0.03	4.55	0.07	0.00	0.07
2.00	0.03	0.00	0.03	4.60	0.07	0.00	0.07
2.05	0.03	0.00	0.03	4.65	0.07	0.00	0.07
2.10	0.03	0.00	0.03	4.70	0.07	0.00	0.07
2.15	0.03	0.00	0.03	4.75	0.08	0.00	0.08
2.20	0.03	0.00	0.03	4.80	0.08	0.00	0.08
2.25	0.03	0.00	0.03	4.85	0.08	0.00	0.08
2.30	0.04	0.00	0.04	4.90	0.08	0.00	0.08
2.35	0.04	0.00	0.04	4.95	0.08	0.00	0.08
2.40	0.04	0.00	0.04	5.00	0.08	0.00	0.08
2.45	0.04	0.00	0.04	5.05	0.08	0.00	0.08
2.50	0.04	0.00	0.04	5.10	0.08	0.00	0.08
2.55	0.04	0.00	0.04	5.15	0.08	0.00	0.08

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.08	0.00	0.08	7.80	0.15	0.00	0.15
5.25	0.08	0.00	0.08	7.85	0.15	0.00	0.15
5.30	0.08	0.00	0.08	7.90	0.15	0.00	0.15
5.35	0.08	0.00	0.08	7.95	0.15	0.00	0.15
5.40	0.08	0.00	0.08	8.00	0.15	0.00	0.15
5.45	0.08	0.00	0.08	8.05	0.16	0.00	0.16
5.50	0.08	0.00	0.08	8.10	0.16	0.00	0.16
5.55	0.09	0.00	0.09	8.15	0.16	0.00	0.16
5.60	0.09	0.00	0.09	8.20	0.16	0.00	0.16
5.65	0.09	0.00	0.09	8.25	0.16	0.00	0.16
5.70	0.09	0.00	0.09	8.30	0.16	0.00	0.16
5.75	0.09	0.00	0.09	8.35	0.17	0.00	0.17
5.80	0.09	0.00	0.09	8.40	0.17	0.00	0.17
5.85	0.09	0.00	0.09	8.45	0.17	0.00	0.17
5.90	0.09	0.00	0.09	8.50	0.17	0.00	0.17
5.95	0.09	0.00	0.09	8.55	0.17	0.00	0.17
6.00	0.09	0.00	0.09	8.60	0.17	0.00	0.17
6.05	0.09	0.00	0.09	8.65	0.18	0.00	0.18
6.10	0.09	0.00	0.09	8.70	0.18	0.00	0.18
6.15	0.09	0.00	0.09	8.75	0.18	0.00	0.18
6.20	0.10	0.00	0.10	8.80	0.18	0.00	0.18
6.25	0.10	0.00	0.10	8.85	0.18	0.00	0.18
6.30	0.10	0.00	0.10	8.90	0.19	0.00	0.19
6.35	0.10	0.00	0.10	8.95	0.19	0.00	0.19
6.40	0.10	0.00	0.10	9.00	0.19	0.00	0.19
6.45	0.10	0.00	0.10	9.05	0.19	0.00	0.19
6.50	0.10	0.00	0.10	9.10	0.20	0.00	0.20
6.55	0.11	0.00	0.11	9.15	0.20	0.00	0.20
6.60	0.11	0.00	0.11	9.20	0.21	0.00	0.21
6.65	0.11	0.00	0.11	9.25	0.22	0.00	0.22
6.70	0.11	0.00	0.11	9.30	0.22	0.00	0.22
6.75	0.11	0.00	0.11	9.35	0.23	0.00	0.23
6.80	0.11	0.00	0.11	9.40	0.23	0.00	0.23
6.85	0.12	0.00	0.12	9.45	0.24	0.00	0.24
6.90	0.12	0.00	0.12	9.50	0.24	0.00	0.24
6.95	0.12	0.00	0.12	9.55	0.25	0.00	0.25
7.00	0.12	0.00	0.12	9.60	0.25	0.00	0.25
7.05	0.12	0.00	0.12	9.65	0.26	0.00	0.26
7.10	0.12	0.00	0.12	9.70	0.27	0.00	0.27
7.15	0.13	0.00	0.13	9.75	0.27	0.00	0.27
7.20	0.13	0.00	0.13	9.80	0.28	0.00	0.28
7.25	0.13	0.00	0.13	9.85	0.28	0.00	0.28
7.30	0.13	0.00	0.13	9.90	0.29	0.00	0.29
7.35	0.13	0.00	0.13	9.95	0.30	0.00	0.30
7.40	0.13	0.00	0.13	10.00	0.30	0.00	0.30
7.45	0.14	0.00	0.14	10.05	0.31	0.00	0.31
7.50	0.14	0.00	0.14	10.10	0.31	0.00	0.31
7.55	0.14	0.00	0.14	10.15	0.32	0.00	0.32
7.60	0.14	0.00	0.14	10.20	0.33	0.00	0.33
7.65	0.14	0.00	0.14	10.25	0.33	0.00	0.33
7.70	0.14	0.00	0.14	10.30	0.34	0.00	0.34
7.75	0.15	0.00	0.15	10.35	0.35	0.00	0.35

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.35	0.00	0.35	13.00	0.78	0.00	0.78
10.45	0.36	0.00	0.36	13.05	0.73	0.00	0.73
10.50	0.36	0.00	0.36	13.10	0.69	0.00	0.69
10.55	0.38	0.00	0.38	13.15	0.65	0.00	0.65
10.60	0.40	0.00	0.40	13.20	0.63	0.00	0.63
10.65	0.42	0.00	0.42	13.25	0.60	0.00	0.60
10.70	0.44	0.00	0.44	13.30	0.58	0.00	0.58
10.75	0.47	0.00	0.47	13.35	0.55	0.00	0.55
10.80	0.49	0.00	0.49	13.40	0.53	0.00	0.53
10.85	0.51	0.00	0.51	13.45	0.51	0.00	0.51
10.90	0.53	0.00	0.53	13.50	0.48	0.00	0.48
10.95	0.56	0.00	0.56	13.55	0.46	0.00	0.46
11.00	0.58	0.00	0.58	13.60	0.44	0.00	0.44
11.05	0.62	0.00	0.62	13.65	0.42	0.00	0.42
11.10	0.65	0.00	0.65	13.70	0.41	0.00	0.41
11.15	0.69	0.00	0.69	13.75	0.41	0.00	0.41
11.20	0.73	0.00	0.73	13.80	0.40	0.00	0.40
11.25	0.78	0.00	0.78	13.85	0.39	0.00	0.39
11.30	0.82	0.00	0.82	13.90	0.39	0.00	0.39
11.35	0.87	0.00	0.87	13.95	0.38	0.00	0.38
11.40	0.90	0.00	0.90	14.00	0.38	0.00	0.38
11.45	0.95	0.00	0.95	14.05	0.37	0.00	0.37
11.50	0.98	0.00	0.98	14.10	0.36	0.00	0.36
11.55	1.19	0.00	1.19	14.15	0.36	0.00	0.36
11.60	1.41	0.00	1.41	14.20	0.35	0.00	0.35
11.65	1.53	0.00	1.53	14.25	0.34	0.00	0.34
11.70	1.61	0.00	1.61	14.30	0.34	0.00	0.34
11.75	1.87	0.00	1.87	14.35	0.33	0.00	0.33
11.80	2.11	0.00	2.11	14.40	0.33	0.00	0.33
11.85	2.55	0.00	2.55	14.45	0.32	0.00	0.32
11.90	2.94	0.00	2.94	14.50	0.31	0.00	0.31
11.95	3.96	0.00	3.96	14.55	0.31	0.00	0.31
12.00	4.92	0.00	4.92	14.60	0.30	0.00	0.30
12.05	6.73	0.00	6.73	14.65	0.29	0.00	0.29
12.10	**8.36**	0.00	**8.36**	14.70	0.29	0.00	0.29
12.15	**6.82**	0.00	**6.82**	14.75	0.28	0.00	0.28
12.20	4.85	0.00	4.85	14.80	0.28	0.00	0.28
12.25	3.63	0.00	3.63	14.85	0.27	0.00	0.27
12.30	2.88	0.00	2.88	14.90	0.26	0.00	0.26
12.35	2.34	0.00	2.34	14.95	0.26	0.00	0.26
12.40	1.99	0.00	1.99	15.00	0.25	0.00	0.25
12.45	1.81	0.00	1.81	15.05	0.24	0.00	0.24
12.50	1.72	0.00	1.72	15.10	0.24	0.00	0.24
12.55	1.48	0.00	1.48	15.15	0.23	0.00	0.23
12.60	1.25	0.00	1.25	15.20	0.23	0.00	0.23
12.65	1.12	0.00	1.12	15.25	0.23	0.00	0.23
12.70	1.06	0.00	1.06	15.30	0.23	0.00	0.23
12.75	1.00	0.00	1.00	15.35	0.23	0.00	0.23
12.80	0.95	0.00	0.95	15.40	0.23	0.00	0.23
12.85	0.90	0.00	0.90	15.45	0.22	0.00	0.22
12.90	0.86	0.00	0.86	15.50	0.22	0.00	0.22
12.95	0.82	0.00	0.82	15.55	0.22	0.00	0.22

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.22	0.00	0.22	18.20	0.13	0.00	0.13
15.65	0.22	0.00	0.22	18.25	0.13	0.00	0.13
15.70	0.22	0.00	0.22	18.30	0.13	0.00	0.13
15.75	0.21	0.00	0.21	18.35	0.13	0.00	0.13
15.80	0.21	0.00	0.21	18.40	0.13	0.00	0.13
15.85	0.21	0.00	0.21	18.45	0.13	0.00	0.13
15.90	0.21	0.00	0.21	18.50	0.13	0.00	0.13
15.95	0.21	0.00	0.21	18.55	0.13	0.00	0.13
16.00	0.21	0.00	0.21	18.60	0.13	0.00	0.13
16.05	0.20	0.00	0.20	18.65	0.13	0.00	0.13
16.10	0.20	0.00	0.20	18.70	0.13	0.00	0.13
16.15	0.20	0.00	0.20	18.75	0.13	0.00	0.13
16.20	0.20	0.00	0.20	18.80	0.13	0.00	0.13
16.25	0.20	0.00	0.20	18.85	0.13	0.00	0.13
16.30	0.20	0.00	0.20	18.90	0.13	0.00	0.13
16.35	0.19	0.00	0.19	18.95	0.13	0.00	0.13
16.40	0.19	0.00	0.19	19.00	0.13	0.00	0.13
16.45	0.19	0.00	0.19	19.05	0.13	0.00	0.13
16.50	0.19	0.00	0.19	19.10	0.13	0.00	0.13
16.55	0.19	0.00	0.19	19.15	0.13	0.00	0.13
16.60	0.19	0.00	0.19	19.20	0.13	0.00	0.13
16.65	0.18	0.00	0.18	19.25	0.13	0.00	0.13
16.70	0.18	0.00	0.18	19.30	0.13	0.00	0.13
16.75	0.18	0.00	0.18	19.35	0.12	0.00	0.12
16.80	0.18	0.00	0.18	19.40	0.12	0.00	0.12
16.85	0.18	0.00	0.18	19.45	0.12	0.00	0.12
16.90	0.18	0.00	0.18	19.50	0.12	0.00	0.12
16.95	0.17	0.00	0.17	19.55	0.12	0.00	0.12
17.00	0.17	0.00	0.17	19.60	0.12	0.00	0.12
17.05	0.17	0.00	0.17	19.65	0.12	0.00	0.12
17.10	0.17	0.00	0.17	19.70	0.12	0.00	0.12
17.15	0.17	0.00	0.17	19.75	0.12	0.00	0.12
17.20	0.17	0.00	0.17	19.80	0.12	0.00	0.12
17.25	0.16	0.00	0.16	19.85	0.12	0.00	0.12
17.30	0.16	0.00	0.16	19.90	0.12	0.00	0.12
17.35	0.16	0.00	0.16	19.95	0.12	0.00	0.12
17.40	0.16	0.00	0.16	20.00	0.12	0.00	0.12
17.45	0.16	0.00	0.16	20.05	0.12	0.00	0.12
17.50	0.16	0.00	0.16	20.10	0.12	0.00	0.12
17.55	0.15	0.00	0.15	20.15	0.12	0.00	0.12
17.60	0.15	0.00	0.15	20.20	0.12	0.00	0.12
17.65	0.15	0.00	0.15	20.25	0.12	0.00	0.12
17.70	0.15	0.00	0.15	20.30	0.12	0.00	0.12
17.75	0.15	0.00	0.15	20.35	0.12	0.00	0.12
17.80	0.15	0.00	0.15	20.40	0.12	0.00	0.12
17.85	0.14	0.00	0.14	20.45	0.12	0.00	0.12
17.90	0.14	0.00	0.14	20.50	0.12	0.00	0.12
17.95	0.14	0.00	0.14	20.55	0.12	0.00	0.12
18.00	0.14	0.00	0.14	20.60	0.12	0.00	0.12
18.05	0.14	0.00	0.14	20.65	0.11	0.00	0.11
18.10	0.14	0.00	0.14	20.70	0.11	0.00	0.11
18.15	0.14	0.00	0.14	20.75	0.11	0.00	0.11

Hydrograph for Link E1A: E1A (continued)

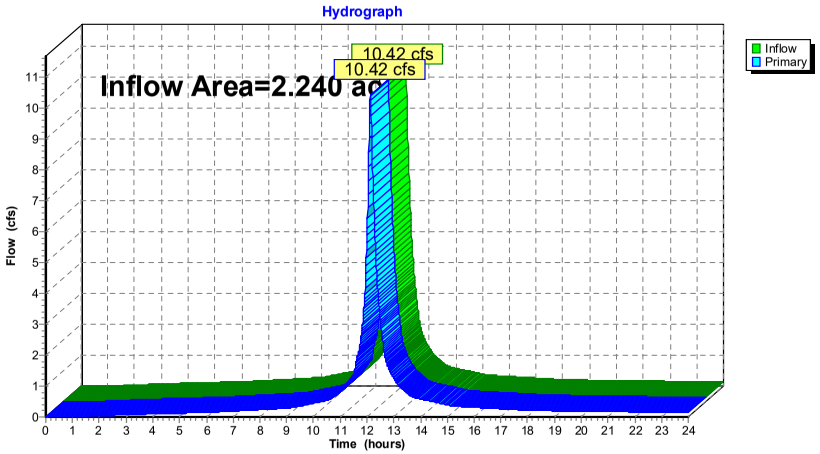
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.11	0.00	0.11	23.40	0.09	0.00	0.09
20.85	0.11	0.00	0.11	23.45	0.09	0.00	0.09
20.90	0.11	0.00	0.11	23.50	0.09	0.00	0.09
20.95	0.11	0.00	0.11	23.55	0.09	0.00	0.09
21.00	0.11	0.00	0.11	23.60	0.09	0.00	0.09
21.05	0.11	0.00	0.11	23.65	0.09	0.00	0.09
21.10	0.11	0.00	0.11	23.70	0.09	0.00	0.09
21.15	0.11	0.00	0.11	23.75	0.09	0.00	0.09
21.20	0.11	0.00	0.11	23.80	0.09	0.00	0.09
21.25	0.11	0.00	0.11	23.85	0.09	0.00	0.09
21.30	0.11	0.00	0.11	23.90	0.09	0.00	0.09
21.35	0.11	0.00	0.11	23.95	0.09	0.00	0.09
21.40	0.11	0.00	0.11	24.00	0.10	0.00	0.10
21.45	0.11	0.00	0.11				
21.50	0.11	0.00	0.11				
21.55	0.11	0.00	0.11				
21.60	0.11	0.00	0.11				
21.65	0.11	0.00	0.11				
21.70	0.11	0.00	0.11				
21.75	0.11	0.00	0.11				
21.80	0.11	0.00	0.11				
21.85	0.10	0.00	0.10				
21.90	0.10	0.00	0.10				
21.95	0.10	0.00	0.10				
22.00	0.10	0.00	0.10				
22.05	0.10	0.00	0.10				
22.10	0.10	0.00	0.10				
22.15	0.10	0.00	0.10				
22.20	0.10	0.00	0.10				
22.25	0.10	0.00	0.10				
22.30	0.10	0.00	0.10				
22.35	0.10	0.00	0.10				
22.40	0.10	0.00	0.10				
22.45	0.10	0.00	0.10				
22.50	0.10	0.00	0.10				
22.55	0.10	0.00	0.10				
22.60	0.10	0.00	0.10				
22.65	0.10	0.00	0.10				
22.70	0.10	0.00	0.10				
22.75	0.10	0.00	0.10				
22.80	0.10	0.00	0.10				
22.85	0.10	0.00	0.10				
22.90	0.10	0.00	0.10				
22.95	0.10	0.00	0.10				
23.00	0.09	0.00	0.09				
23.05	0.09	0.00	0.09				
23.10	0.09	0.00	0.09				
23.15	0.09	0.00	0.09				
23.20	0.09	0.00	0.09				
23.25	0.09	0.00	0.09				
23.30	0.09	0.00	0.09				
23.35	0.09	0.00	0.09				

Summary for Link E1B: E1B

Inflow Area = 2.240 ac, 27.23% Impervious, Inflow Depth > 5.00" for 10YR PROJECTED event
Inflow = 10.42 cfs @ 12.12 hrs, Volume= 0.933 af
Primary = 10.42 cfs @ 12.12 hrs, Volume= 0.933 af, Atten= 0%, Lag= 0.0 min
Routed to Link EPOI-1 : EPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link E1B: E1B



Hydrograph for Link E1B: E1B

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.06	0.00	0.06
0.05	0.00	0.00	0.00	2.65	0.06	0.00	0.06
0.10	0.00	0.00	0.00	2.70	0.06	0.00	0.06
0.15	0.00	0.00	0.00	2.75	0.06	0.00	0.06
0.20	0.00	0.00	0.00	2.80	0.06	0.00	0.06
0.25	0.00	0.00	0.00	2.85	0.06	0.00	0.06
0.30	0.00	0.00	0.00	2.90	0.07	0.00	0.07
0.35	0.00	0.00	0.00	2.95	0.07	0.00	0.07
0.40	0.00	0.00	0.00	3.00	0.07	0.00	0.07
0.45	0.00	0.00	0.00	3.05	0.07	0.00	0.07
0.50	0.00	0.00	0.00	3.10	0.07	0.00	0.07
0.55	0.00	0.00	0.00	3.15	0.07	0.00	0.07
0.60	0.00	0.00	0.00	3.20	0.07	0.00	0.07
0.65	0.00	0.00	0.00	3.25	0.08	0.00	0.08
0.70	0.00	0.00	0.00	3.30	0.08	0.00	0.08
0.75	0.00	0.00	0.00	3.35	0.08	0.00	0.08
0.80	0.00	0.00	0.00	3.40	0.08	0.00	0.08
0.85	0.00	0.00	0.00	3.45	0.08	0.00	0.08
0.90	0.00	0.00	0.00	3.50	0.08	0.00	0.08
0.95	0.00	0.00	0.00	3.55	0.08	0.00	0.08
1.00	0.00	0.00	0.00	3.60	0.09	0.00	0.09
1.05	0.00	0.00	0.00	3.65	0.09	0.00	0.09
1.10	0.01	0.00	0.01	3.70	0.09	0.00	0.09
1.15	0.01	0.00	0.01	3.75	0.09	0.00	0.09
1.20	0.01	0.00	0.01	3.80	0.09	0.00	0.09
1.25	0.01	0.00	0.01	3.85	0.09	0.00	0.09
1.30	0.01	0.00	0.01	3.90	0.09	0.00	0.09
1.35	0.01	0.00	0.01	3.95	0.09	0.00	0.09
1.40	0.01	0.00	0.01	4.00	0.10	0.00	0.10
1.45	0.01	0.00	0.01	4.05	0.10	0.00	0.10
1.50	0.01	0.00	0.01	4.10	0.10	0.00	0.10
1.55	0.02	0.00	0.02	4.15	0.10	0.00	0.10
1.60	0.02	0.00	0.02	4.20	0.10	0.00	0.10
1.65	0.02	0.00	0.02	4.25	0.10	0.00	0.10
1.70	0.02	0.00	0.02	4.30	0.10	0.00	0.10
1.75	0.02	0.00	0.02	4.35	0.11	0.00	0.11
1.80	0.03	0.00	0.03	4.40	0.11	0.00	0.11
1.85	0.03	0.00	0.03	4.45	0.11	0.00	0.11
1.90	0.03	0.00	0.03	4.50	0.11	0.00	0.11
1.95	0.03	0.00	0.03	4.55	0.11	0.00	0.11
2.00	0.03	0.00	0.03	4.60	0.11	0.00	0.11
2.05	0.04	0.00	0.04	4.65	0.11	0.00	0.11
2.10	0.04	0.00	0.04	4.70	0.11	0.00	0.11
2.15	0.04	0.00	0.04	4.75	0.11	0.00	0.11
2.20	0.04	0.00	0.04	4.80	0.12	0.00	0.12
2.25	0.04	0.00	0.04	4.85	0.12	0.00	0.12
2.30	0.04	0.00	0.04	4.90	0.12	0.00	0.12
2.35	0.05	0.00	0.05	4.95	0.12	0.00	0.12
2.40	0.05	0.00	0.05	5.00	0.12	0.00	0.12
2.45	0.05	0.00	0.05	5.05	0.12	0.00	0.12
2.50	0.05	0.00	0.05	5.10	0.12	0.00	0.12
2.55	0.05	0.00	0.05	5.15	0.12	0.00	0.12

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.12	0.00	0.12	7.80	0.23	0.00	0.23
5.25	0.13	0.00	0.13	7.85	0.23	0.00	0.23
5.30	0.13	0.00	0.13	7.90	0.23	0.00	0.23
5.35	0.13	0.00	0.13	7.95	0.23	0.00	0.23
5.40	0.13	0.00	0.13	8.00	0.24	0.00	0.24
5.45	0.13	0.00	0.13	8.05	0.24	0.00	0.24
5.50	0.13	0.00	0.13	8.10	0.24	0.00	0.24
5.55	0.13	0.00	0.13	8.15	0.24	0.00	0.24
5.60	0.13	0.00	0.13	8.20	0.25	0.00	0.25
5.65	0.13	0.00	0.13	8.25	0.25	0.00	0.25
5.70	0.13	0.00	0.13	8.30	0.25	0.00	0.25
5.75	0.14	0.00	0.14	8.35	0.25	0.00	0.25
5.80	0.14	0.00	0.14	8.40	0.26	0.00	0.26
5.85	0.14	0.00	0.14	8.45	0.26	0.00	0.26
5.90	0.14	0.00	0.14	8.50	0.26	0.00	0.26
5.95	0.14	0.00	0.14	8.55	0.26	0.00	0.26
6.00	0.14	0.00	0.14	8.60	0.27	0.00	0.27
6.05	0.14	0.00	0.14	8.65	0.27	0.00	0.27
6.10	0.14	0.00	0.14	8.70	0.27	0.00	0.27
6.15	0.15	0.00	0.15	8.75	0.27	0.00	0.27
6.20	0.15	0.00	0.15	8.80	0.28	0.00	0.28
6.25	0.15	0.00	0.15	8.85	0.28	0.00	0.28
6.30	0.15	0.00	0.15	8.90	0.28	0.00	0.28
6.35	0.16	0.00	0.16	8.95	0.28	0.00	0.28
6.40	0.16	0.00	0.16	9.00	0.29	0.00	0.29
6.45	0.16	0.00	0.16	9.05	0.29	0.00	0.29
6.50	0.16	0.00	0.16	9.10	0.30	0.00	0.30
6.55	0.16	0.00	0.16	9.15	0.30	0.00	0.30
6.60	0.17	0.00	0.17	9.20	0.31	0.00	0.31
6.65	0.17	0.00	0.17	9.25	0.32	0.00	0.32
6.70	0.17	0.00	0.17	9.30	0.33	0.00	0.33
6.75	0.17	0.00	0.17	9.35	0.33	0.00	0.33
6.80	0.18	0.00	0.18	9.40	0.34	0.00	0.34
6.85	0.18	0.00	0.18	9.45	0.35	0.00	0.35
6.90	0.18	0.00	0.18	9.50	0.36	0.00	0.36
6.95	0.18	0.00	0.18	9.55	0.37	0.00	0.37
7.00	0.19	0.00	0.19	9.60	0.38	0.00	0.38
7.05	0.19	0.00	0.19	9.65	0.39	0.00	0.39
7.10	0.19	0.00	0.19	9.70	0.39	0.00	0.39
7.15	0.19	0.00	0.19	9.75	0.40	0.00	0.40
7.20	0.20	0.00	0.20	9.80	0.41	0.00	0.41
7.25	0.20	0.00	0.20	9.85	0.42	0.00	0.42
7.30	0.20	0.00	0.20	9.90	0.43	0.00	0.43
7.35	0.20	0.00	0.20	9.95	0.44	0.00	0.44
7.40	0.21	0.00	0.21	10.00	0.45	0.00	0.45
7.45	0.21	0.00	0.21	10.05	0.45	0.00	0.45
7.50	0.21	0.00	0.21	10.10	0.46	0.00	0.46
7.55	0.21	0.00	0.21	10.15	0.47	0.00	0.47
7.60	0.22	0.00	0.22	10.20	0.48	0.00	0.48
7.65	0.22	0.00	0.22	10.25	0.49	0.00	0.49
7.70	0.22	0.00	0.22	10.30	0.50	0.00	0.50
7.75	0.22	0.00	0.22	10.35	0.51	0.00	0.51

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.52	0.00	0.52	13.00	1.25	0.00	1.25
10.45	0.52	0.00	0.52	13.05	1.19	0.00	1.19
10.50	0.53	0.00	0.53	13.10	1.12	0.00	1.12
10.55	0.55	0.00	0.55	13.15	1.06	0.00	1.06
10.60	0.57	0.00	0.57	13.20	1.01	0.00	1.01
10.65	0.60	0.00	0.60	13.25	0.97	0.00	0.97
10.70	0.63	0.00	0.63	13.30	0.92	0.00	0.92
10.75	0.65	0.00	0.65	13.35	0.89	0.00	0.89
10.80	0.69	0.00	0.69	13.40	0.85	0.00	0.85
10.85	0.72	0.00	0.72	13.45	0.81	0.00	0.81
10.90	0.75	0.00	0.75	13.50	0.77	0.00	0.77
10.95	0.78	0.00	0.78	13.55	0.74	0.00	0.74
11.00	0.81	0.00	0.81	13.60	0.70	0.00	0.70
11.05	0.86	0.00	0.86	13.65	0.67	0.00	0.67
11.10	0.90	0.00	0.90	13.70	0.65	0.00	0.65
11.15	0.96	0.00	0.96	13.75	0.64	0.00	0.64
11.20	1.01	0.00	1.01	13.80	0.62	0.00	0.62
11.25	1.07	0.00	1.07	13.85	0.61	0.00	0.61
11.30	1.13	0.00	1.13	13.90	0.60	0.00	0.60
11.35	1.19	0.00	1.19	13.95	0.59	0.00	0.59
11.40	1.25	0.00	1.25	14.00	0.58	0.00	0.58
11.45	1.31	0.00	1.31	14.05	0.57	0.00	0.57
11.50	1.36	0.00	1.36	14.10	0.56	0.00	0.56
11.55	1.53	0.00	1.53	14.15	0.55	0.00	0.55
11.60	1.79	0.00	1.79	14.20	0.54	0.00	0.54
11.65	1.99	0.00	1.99	14.25	0.53	0.00	0.53
11.70	2.14	0.00	2.14	14.30	0.52	0.00	0.52
11.75	2.39	0.00	2.39	14.35	0.51	0.00	0.51
11.80	2.73	0.00	2.73	14.40	0.50	0.00	0.50
11.85	3.17	0.00	3.17	14.45	0.49	0.00	0.49
11.90	3.71	0.00	3.71	14.50	0.49	0.00	0.49
11.95	4.63	0.00	4.63	14.55	0.48	0.00	0.48
12.00	5.89	0.00	5.89	14.60	0.47	0.00	0.47
12.05	7.64	0.00	7.64	14.65	0.46	0.00	0.46
12.10	**9.90**	0.00	**9.90**	14.70	0.45	0.00	0.45
12.15	**10.04**	0.00	**10.04**	14.75	0.44	0.00	0.44
12.20	8.34	0.00	8.34	14.80	0.43	0.00	0.43
12.25	6.91	0.00	6.91	14.85	0.42	0.00	0.42
12.30	5.77	0.00	5.77	14.90	0.41	0.00	0.41
12.35	4.87	0.00	4.87	14.95	0.40	0.00	0.40
12.40	4.09	0.00	4.09	15.00	0.39	0.00	0.39
12.45	3.53	0.00	3.53	15.05	0.38	0.00	0.38
12.50	3.14	0.00	3.14	15.10	0.37	0.00	0.37
12.55	2.75	0.00	2.75	15.15	0.37	0.00	0.37
12.60	2.34	0.00	2.34	15.20	0.36	0.00	0.36
12.65	2.06	0.00	2.06	15.25	0.36	0.00	0.36
12.70	1.85	0.00	1.85	15.30	0.35	0.00	0.35
12.75	1.70	0.00	1.70	15.35	0.35	0.00	0.35
12.80	1.58	0.00	1.58	15.40	0.35	0.00	0.35
12.85	1.49	0.00	1.49	15.45	0.34	0.00	0.34
12.90	1.40	0.00	1.40	15.50	0.34	0.00	0.34
12.95	1.33	0.00	1.33	15.55	0.34	0.00	0.34

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.34	0.00	0.34	18.20	0.21	0.00	0.21
15.65	0.33	0.00	0.33	18.25	0.21	0.00	0.21
15.70	0.33	0.00	0.33	18.30	0.20	0.00	0.20
15.75	0.33	0.00	0.33	18.35	0.20	0.00	0.20
15.80	0.32	0.00	0.32	18.40	0.20	0.00	0.20
15.85	0.32	0.00	0.32	18.45	0.20	0.00	0.20
15.90	0.32	0.00	0.32	18.50	0.20	0.00	0.20
15.95	0.32	0.00	0.32	18.55	0.20	0.00	0.20
16.00	0.31	0.00	0.31	18.60	0.20	0.00	0.20
16.05	0.31	0.00	0.31	18.65	0.20	0.00	0.20
16.10	0.31	0.00	0.31	18.70	0.20	0.00	0.20
16.15	0.31	0.00	0.31	18.75	0.20	0.00	0.20
16.20	0.31	0.00	0.31	18.80	0.20	0.00	0.20
16.25	0.30	0.00	0.30	18.85	0.20	0.00	0.20
16.30	0.30	0.00	0.30	18.90	0.20	0.00	0.20
16.35	0.30	0.00	0.30	18.95	0.20	0.00	0.20
16.40	0.30	0.00	0.30	19.00	0.20	0.00	0.20
16.45	0.29	0.00	0.29	19.05	0.19	0.00	0.19
16.50	0.29	0.00	0.29	19.10	0.19	0.00	0.19
16.55	0.29	0.00	0.29	19.15	0.19	0.00	0.19
16.60	0.29	0.00	0.29	19.20	0.19	0.00	0.19
16.65	0.28	0.00	0.28	19.25	0.19	0.00	0.19
16.70	0.28	0.00	0.28	19.30	0.19	0.00	0.19
16.75	0.28	0.00	0.28	19.35	0.19	0.00	0.19
16.80	0.27	0.00	0.27	19.40	0.19	0.00	0.19
16.85	0.27	0.00	0.27	19.45	0.19	0.00	0.19
16.90	0.27	0.00	0.27	19.50	0.19	0.00	0.19
16.95	0.27	0.00	0.27	19.55	0.19	0.00	0.19
17.00	0.27	0.00	0.27	19.60	0.19	0.00	0.19
17.05	0.26	0.00	0.26	19.65	0.19	0.00	0.19
17.10	0.26	0.00	0.26	19.70	0.19	0.00	0.19
17.15	0.26	0.00	0.26	19.75	0.19	0.00	0.19
17.20	0.26	0.00	0.26	19.80	0.19	0.00	0.19
17.25	0.25	0.00	0.25	19.85	0.19	0.00	0.19
17.30	0.25	0.00	0.25	19.90	0.18	0.00	0.18
17.35	0.25	0.00	0.25	19.95	0.18	0.00	0.18
17.40	0.24	0.00	0.24	20.00	0.18	0.00	0.18
17.45	0.24	0.00	0.24	20.05	0.18	0.00	0.18
17.50	0.24	0.00	0.24	20.10	0.18	0.00	0.18
17.55	0.24	0.00	0.24	20.15	0.18	0.00	0.18
17.60	0.24	0.00	0.24	20.20	0.18	0.00	0.18
17.65	0.23	0.00	0.23	20.25	0.18	0.00	0.18
17.70	0.23	0.00	0.23	20.30	0.18	0.00	0.18
17.75	0.23	0.00	0.23	20.35	0.18	0.00	0.18
17.80	0.23	0.00	0.23	20.40	0.18	0.00	0.18
17.85	0.22	0.00	0.22	20.45	0.18	0.00	0.18
17.90	0.22	0.00	0.22	20.50	0.18	0.00	0.18
17.95	0.22	0.00	0.22	20.55	0.18	0.00	0.18
18.00	0.21	0.00	0.21	20.60	0.18	0.00	0.18
18.05	0.21	0.00	0.21	20.65	0.18	0.00	0.18
18.10	0.21	0.00	0.21	20.70	0.17	0.00	0.17
18.15	0.21	0.00	0.21	20.75	0.17	0.00	0.17

Hydrograph for Link E1B: E1B (continued)

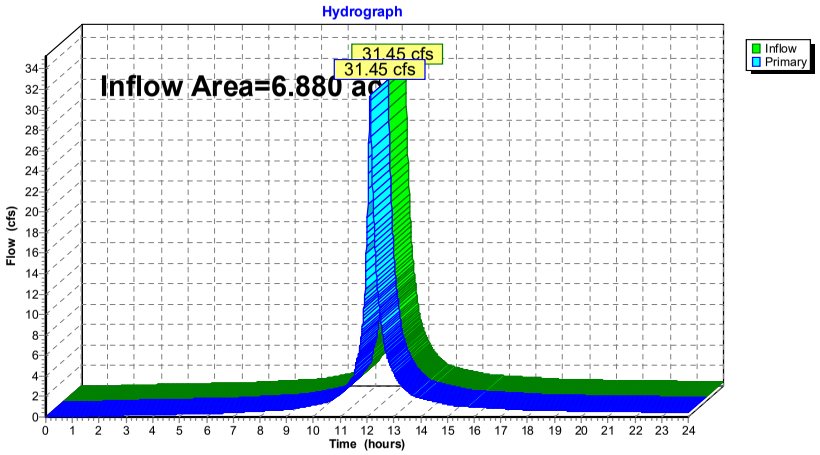
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.17	0.00	0.17	23.40	0.14	0.00	0.14
20.85	0.17	0.00	0.17	23.45	0.14	0.00	0.14
20.90	0.17	0.00	0.17	23.50	0.14	0.00	0.14
20.95	0.17	0.00	0.17	23.55	0.14	0.00	0.14
21.00	0.17	0.00	0.17	23.60	0.14	0.00	0.14
21.05	0.17	0.00	0.17	23.65	0.14	0.00	0.14
21.10	0.17	0.00	0.17	23.70	0.14	0.00	0.14
21.15	0.17	0.00	0.17	23.75	0.14	0.00	0.14
21.20	0.17	0.00	0.17	23.80	0.14	0.00	0.14
21.25	0.17	0.00	0.17	23.85	0.13	0.00	0.13
21.30	0.17	0.00	0.17	23.90	0.13	0.00	0.13
21.35	0.17	0.00	0.17	23.95	0.14	0.00	0.14
21.40	0.17	0.00	0.17	24.00	0.15	0.00	0.15
21.45	0.16	0.00	0.16				
21.50	0.16	0.00	0.16				
21.55	0.16	0.00	0.16				
21.60	0.16	0.00	0.16				
21.65	0.16	0.00	0.16				
21.70	0.16	0.00	0.16				
21.75	0.16	0.00	0.16				
21.80	0.16	0.00	0.16				
21.85	0.16	0.00	0.16				
21.90	0.16	0.00	0.16				
21.95	0.16	0.00	0.16				
22.00	0.16	0.00	0.16				
22.05	0.16	0.00	0.16				
22.10	0.16	0.00	0.16				
22.15	0.16	0.00	0.16				
22.20	0.16	0.00	0.16				
22.25	0.15	0.00	0.15				
22.30	0.15	0.00	0.15				
22.35	0.15	0.00	0.15				
22.40	0.15	0.00	0.15				
22.45	0.15	0.00	0.15				
22.50	0.15	0.00	0.15				
22.55	0.15	0.00	0.15				
22.60	0.15	0.00	0.15				
22.65	0.15	0.00	0.15				
22.70	0.15	0.00	0.15				
22.75	0.15	0.00	0.15				
22.80	0.15	0.00	0.15				
22.85	0.15	0.00	0.15				
22.90	0.15	0.00	0.15				
22.95	0.15	0.00	0.15				
23.00	0.15	0.00	0.15				
23.05	0.14	0.00	0.14				
23.10	0.14	0.00	0.14				
23.15	0.14	0.00	0.14				
23.20	0.14	0.00	0.14				
23.25	0.14	0.00	0.14				
23.30	0.14	0.00	0.14				
23.35	0.14	0.00	0.14				

Summary for Link EPOI-1: EPOI-1

Inflow Area = 6.880 ac, 33.14% Impervious, Inflow Depth > 4.85" for 10YR PROJECTED event
Inflow = 31.45 cfs @ 12.12 hrs, Volume= 2.782 af
Primary = 31.45 cfs @ 12.12 hrs, Volume= 2.782 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link EPOI-1: EPOI-1



Hydrograph for Link EPOI-1: EPOI-1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.14	0.00	0.14
0.05	0.00	0.00	0.00	2.65	0.15	0.00	0.15
0.10	0.00	0.00	0.00	2.70	0.15	0.00	0.15
0.15	0.00	0.00	0.00	2.75	0.15	0.00	0.15
0.20	0.00	0.00	0.00	2.80	0.16	0.00	0.16
0.25	0.00	0.00	0.00	2.85	0.16	0.00	0.16
0.30	0.00	0.00	0.00	2.90	0.16	0.00	0.16
0.35	0.00	0.00	0.00	2.95	0.17	0.00	0.17
0.40	0.00	0.00	0.00	3.00	0.17	0.00	0.17
0.45	0.00	0.00	0.00	3.05	0.17	0.00	0.17
0.50	0.00	0.00	0.00	3.10	0.18	0.00	0.18
0.55	0.00	0.00	0.00	3.15	0.18	0.00	0.18
0.60	0.00	0.00	0.00	3.20	0.18	0.00	0.18
0.65	0.00	0.00	0.00	3.25	0.19	0.00	0.19
0.70	0.00	0.00	0.00	3.30	0.19	0.00	0.19
0.75	0.00	0.00	0.00	3.35	0.19	0.00	0.19
0.80	0.00	0.00	0.00	3.40	0.19	0.00	0.19
0.85	0.01	0.00	0.01	3.45	0.20	0.00	0.20
0.90	0.01	0.00	0.01	3.50	0.20	0.00	0.20
0.95	0.01	0.00	0.01	3.55	0.20	0.00	0.20
1.00	0.01	0.00	0.01	3.60	0.21	0.00	0.21
1.05	0.02	0.00	0.02	3.65	0.21	0.00	0.21
1.10	0.02	0.00	0.02	3.70	0.21	0.00	0.21
1.15	0.02	0.00	0.02	3.75	0.21	0.00	0.21
1.20	0.03	0.00	0.03	3.80	0.22	0.00	0.22
1.25	0.03	0.00	0.03	3.85	0.22	0.00	0.22
1.30	0.04	0.00	0.04	3.90	0.22	0.00	0.22
1.35	0.04	0.00	0.04	3.95	0.22	0.00	0.22
1.40	0.04	0.00	0.04	4.00	0.23	0.00	0.23
1.45	0.05	0.00	0.05	4.05	0.23	0.00	0.23
1.50	0.05	0.00	0.05	4.10	0.23	0.00	0.23
1.55	0.06	0.00	0.06	4.15	0.23	0.00	0.23
1.60	0.06	0.00	0.06	4.20	0.24	0.00	0.24
1.65	0.07	0.00	0.07	4.25	0.24	0.00	0.24
1.70	0.07	0.00	0.07	4.30	0.24	0.00	0.24
1.75	0.08	0.00	0.08	4.35	0.25	0.00	0.25
1.80	0.08	0.00	0.08	4.40	0.25	0.00	0.25
1.85	0.08	0.00	0.08	4.45	0.25	0.00	0.25
1.90	0.09	0.00	0.09	4.50	0.25	0.00	0.25
1.95	0.09	0.00	0.09	4.55	0.25	0.00	0.25
2.00	0.10	0.00	0.10	4.60	0.26	0.00	0.26
2.05	0.10	0.00	0.10	4.65	0.26	0.00	0.26
2.10	0.11	0.00	0.11	4.70	0.26	0.00	0.26
2.15	0.11	0.00	0.11	4.75	0.26	0.00	0.26
2.20	0.11	0.00	0.11	4.80	0.27	0.00	0.27
2.25	0.12	0.00	0.12	4.85	0.27	0.00	0.27
2.30	0.12	0.00	0.12	4.90	0.27	0.00	0.27
2.35	0.13	0.00	0.13	4.95	0.27	0.00	0.27
2.40	0.13	0.00	0.13	5.00	0.27	0.00	0.27
2.45	0.13	0.00	0.13	5.05	0.28	0.00	0.28
2.50	0.14	0.00	0.14	5.10	0.28	0.00	0.28
2.55	0.14	0.00	0.14	5.15	0.28	0.00	0.28

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.28	0.00	0.28	7.80	0.54	0.00	0.54
5.25	0.29	0.00	0.29	7.85	0.55	0.00	0.55
5.30	0.29	0.00	0.29	7.90	0.56	0.00	0.56
5.35	0.29	0.00	0.29	7.95	0.57	0.00	0.57
5.40	0.29	0.00	0.29	8.00	0.57	0.00	0.57
5.45	0.29	0.00	0.29	8.05	0.58	0.00	0.58
5.50	0.30	0.00	0.30	8.10	0.59	0.00	0.59
5.55	0.30	0.00	0.30	8.15	0.59	0.00	0.59
5.60	0.30	0.00	0.30	8.20	0.60	0.00	0.60
5.65	0.30	0.00	0.30	8.25	0.61	0.00	0.61
5.70	0.30	0.00	0.30	8.30	0.62	0.00	0.62
5.75	0.31	0.00	0.31	8.35	0.62	0.00	0.62
5.80	0.31	0.00	0.31	8.40	0.63	0.00	0.63
5.85	0.31	0.00	0.31	8.45	0.64	0.00	0.64
5.90	0.31	0.00	0.31	8.50	0.65	0.00	0.65
5.95	0.31	0.00	0.31	8.55	0.66	0.00	0.66
6.00	0.32	0.00	0.32	8.60	0.66	0.00	0.66
6.05	0.32	0.00	0.32	8.65	0.67	0.00	0.67
6.10	0.32	0.00	0.32	8.70	0.68	0.00	0.68
6.15	0.33	0.00	0.33	8.75	0.69	0.00	0.69
6.20	0.33	0.00	0.33	8.80	0.69	0.00	0.69
6.25	0.34	0.00	0.34	8.85	0.70	0.00	0.70
6.30	0.34	0.00	0.34	8.90	0.71	0.00	0.71
6.35	0.35	0.00	0.35	8.95	0.72	0.00	0.72
6.40	0.36	0.00	0.36	9.00	0.73	0.00	0.73
6.45	0.36	0.00	0.36	9.05	0.74	0.00	0.74
6.50	0.37	0.00	0.37	9.10	0.76	0.00	0.76
6.55	0.37	0.00	0.37	9.15	0.78	0.00	0.78
6.60	0.38	0.00	0.38	9.20	0.80	0.00	0.80
6.65	0.39	0.00	0.39	9.25	0.82	0.00	0.82
6.70	0.39	0.00	0.39	9.30	0.84	0.00	0.84
6.75	0.40	0.00	0.40	9.35	0.87	0.00	0.87
6.80	0.40	0.00	0.40	9.40	0.89	0.00	0.89
6.85	0.41	0.00	0.41	9.45	0.91	0.00	0.91
6.90	0.42	0.00	0.42	9.50	0.93	0.00	0.93
6.95	0.42	0.00	0.42	9.55	0.96	0.00	0.96
7.00	0.43	0.00	0.43	9.60	0.98	0.00	0.98
7.05	0.44	0.00	0.44	9.65	1.01	0.00	1.01
7.10	0.44	0.00	0.44	9.70	1.03	0.00	1.03
7.15	0.45	0.00	0.45	9.75	1.06	0.00	1.06
7.20	0.46	0.00	0.46	9.80	1.08	0.00	1.08
7.25	0.47	0.00	0.47	9.85	1.11	0.00	1.11
7.30	0.47	0.00	0.47	9.90	1.13	0.00	1.13
7.35	0.48	0.00	0.48	9.95	1.16	0.00	1.16
7.40	0.49	0.00	0.49	10.00	1.18	0.00	1.18
7.45	0.49	0.00	0.49	10.05	1.21	0.00	1.21
7.50	0.50	0.00	0.50	10.10	1.23	0.00	1.23
7.55	0.51	0.00	0.51	10.15	1.26	0.00	1.26
7.60	0.51	0.00	0.51	10.20	1.29	0.00	1.29
7.65	0.52	0.00	0.52	10.25	1.32	0.00	1.32
7.70	0.53	0.00	0.53	10.30	1.34	0.00	1.34
7.75	0.54	0.00	0.54	10.35	1.37	0.00	1.37

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	1.39	0.00	1.39	13.00	4.31	0.00	4.31
10.45	1.42	0.00	1.42	13.05	4.04	0.00	4.04
10.50	1.45	0.00	1.45	13.10	3.79	0.00	3.79
10.55	1.51	0.00	1.51	13.15	3.57	0.00	3.57
10.60	1.57	0.00	1.57	13.20	3.39	0.00	3.39
10.65	1.65	0.00	1.65	13.25	3.22	0.00	3.22
10.70	1.73	0.00	1.73	13.30	3.07	0.00	3.07
10.75	1.82	0.00	1.82	13.35	2.92	0.00	2.92
10.80	1.90	0.00	1.90	13.40	2.79	0.00	2.79
10.85	2.00	0.00	2.00	13.45	2.66	0.00	2.66
10.90	2.09	0.00	2.09	13.50	2.53	0.00	2.53
10.95	2.18	0.00	2.18	13.55	2.41	0.00	2.41
11.00	2.28	0.00	2.28	13.60	2.29	0.00	2.29
11.05	2.41	0.00	2.41	13.65	2.20	0.00	2.20
11.10	2.55	0.00	2.55	13.70	2.12	0.00	2.12
11.15	2.71	0.00	2.71	13.75	2.06	0.00	2.06
11.20	2.87	0.00	2.87	13.80	2.01	0.00	2.01
11.25	3.05	0.00	3.05	13.85	1.97	0.00	1.97
11.30	3.22	0.00	3.22	13.90	1.93	0.00	1.93
11.35	3.41	0.00	3.41	13.95	1.89	0.00	1.89
11.40	3.59	0.00	3.59	14.00	1.85	0.00	1.85
11.45	3.76	0.00	3.76	14.05	1.81	0.00	1.81
11.50	3.92	0.00	3.92	14.10	1.78	0.00	1.78
11.55	4.53	0.00	4.53	14.15	1.75	0.00	1.75
11.60	5.29	0.00	5.29	14.20	1.72	0.00	1.72
11.65	5.85	0.00	5.85	14.25	1.69	0.00	1.69
11.70	6.26	0.00	6.26	14.30	1.65	0.00	1.65
11.75	7.11	0.00	7.11	14.35	1.62	0.00	1.62
11.80	8.08	0.00	8.08	14.40	1.59	0.00	1.59
11.85	9.54	0.00	9.54	14.45	1.56	0.00	1.56
11.90	11.09	0.00	11.09	14.50	1.53	0.00	1.53
11.95	14.27	0.00	14.27	14.55	1.50	0.00	1.50
12.00	17.94	0.00	17.94	14.60	1.47	0.00	1.47
12.05	23.83	0.00	23.83	14.65	1.44	0.00	1.44
12.10	**30.33**	0.00	**30.33**	14.70	1.41	0.00	1.41
12.15	**28.61**	0.00	**28.61**	14.75	1.38	0.00	1.38
12.20	23.37	0.00	23.37	14.80	1.36	0.00	1.36
12.25	19.50	0.00	19.50	14.85	1.33	0.00	1.33
12.30	16.51	0.00	16.51	14.90	1.30	0.00	1.30
12.35	14.12	0.00	14.12	14.95	1.27	0.00	1.27
12.40	12.19	0.00	12.19	15.00	1.24	0.00	1.24
12.45	10.90	0.00	10.90	15.05	1.21	0.00	1.21
12.50	10.02	0.00	10.02	15.10	1.18	0.00	1.18
12.55	8.88	0.00	8.88	15.15	1.16	0.00	1.16
12.60	7.74	0.00	7.74	15.20	1.14	0.00	1.14
12.65	6.95	0.00	6.95	15.25	1.13	0.00	1.13
12.70	6.38	0.00	6.38	15.30	1.11	0.00	1.11
12.75	5.91	0.00	5.91	15.35	1.10	0.00	1.10
12.80	5.53	0.00	5.53	15.40	1.09	0.00	1.09
12.85	5.18	0.00	5.18	15.45	1.08	0.00	1.08
12.90	4.88	0.00	4.88	15.50	1.07	0.00	1.07
12.95	4.58	0.00	4.58	15.55	1.06	0.00	1.06

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	1.06	0.00	1.06	18.20	0.65	0.00	0.65
15.65	1.05	0.00	1.05	18.25	0.65	0.00	0.65
15.70	1.04	0.00	1.04	18.30	0.64	0.00	0.64
15.75	1.03	0.00	1.03	18.35	0.64	0.00	0.64
15.80	1.02	0.00	1.02	18.40	0.64	0.00	0.64
15.85	1.01	0.00	1.01	18.45	0.64	0.00	0.64
15.90	1.01	0.00	1.01	18.50	0.63	0.00	0.63
15.95	1.00	0.00	1.00	18.55	0.63	0.00	0.63
16.00	0.99	0.00	0.99	18.60	0.63	0.00	0.63
16.05	0.98	0.00	0.98	18.65	0.63	0.00	0.63
16.10	0.97	0.00	0.97	18.70	0.62	0.00	0.62
16.15	0.97	0.00	0.97	18.75	0.62	0.00	0.62
16.20	0.96	0.00	0.96	18.80	0.62	0.00	0.62
16.25	0.95	0.00	0.95	18.85	0.62	0.00	0.62
16.30	0.94	0.00	0.94	18.90	0.62	0.00	0.62
16.35	0.93	0.00	0.93	18.95	0.61	0.00	0.61
16.40	0.93	0.00	0.93	19.00	0.61	0.00	0.61
16.45	0.92	0.00	0.92	19.05	0.61	0.00	0.61
16.50	0.91	0.00	0.91	19.10	0.61	0.00	0.61
16.55	0.90	0.00	0.90	19.15	0.61	0.00	0.61
16.60	0.90	0.00	0.90	19.20	0.60	0.00	0.60
16.65	0.89	0.00	0.89	19.25	0.60	0.00	0.60
16.70	0.88	0.00	0.88	19.30	0.60	0.00	0.60
16.75	0.87	0.00	0.87	19.35	0.60	0.00	0.60
16.80	0.86	0.00	0.86	19.40	0.60	0.00	0.60
16.85	0.86	0.00	0.86	19.45	0.59	0.00	0.59
16.90	0.85	0.00	0.85	19.50	0.59	0.00	0.59
16.95	0.84	0.00	0.84	19.55	0.59	0.00	0.59
17.00	0.83	0.00	0.83	19.60	0.59	0.00	0.59
17.05	0.83	0.00	0.83	19.65	0.59	0.00	0.59
17.10	0.82	0.00	0.82	19.70	0.58	0.00	0.58
17.15	0.81	0.00	0.81	19.75	0.58	0.00	0.58
17.20	0.80	0.00	0.80	19.80	0.58	0.00	0.58
17.25	0.79	0.00	0.79	19.85	0.58	0.00	0.58
17.30	0.79	0.00	0.79	19.90	0.58	0.00	0.58
17.35	0.78	0.00	0.78	19.95	0.58	0.00	0.58
17.40	0.77	0.00	0.77	20.00	0.57	0.00	0.57
17.45	0.76	0.00	0.76	20.05	0.57	0.00	0.57
17.50	0.76	0.00	0.76	20.10	0.57	0.00	0.57
17.55	0.75	0.00	0.75	20.15	0.57	0.00	0.57
17.60	0.74	0.00	0.74	20.20	0.56	0.00	0.56
17.65	0.73	0.00	0.73	20.25	0.56	0.00	0.56
17.70	0.72	0.00	0.72	20.30	0.56	0.00	0.56
17.75	0.72	0.00	0.72	20.35	0.56	0.00	0.56
17.80	0.71	0.00	0.71	20.40	0.56	0.00	0.56
17.85	0.70	0.00	0.70	20.45	0.55	0.00	0.55
17.90	0.69	0.00	0.69	20.50	0.55	0.00	0.55
17.95	0.68	0.00	0.68	20.55	0.55	0.00	0.55
18.00	0.68	0.00	0.68	20.60	0.55	0.00	0.55
18.05	0.67	0.00	0.67	20.65	0.55	0.00	0.55
18.10	0.66	0.00	0.66	20.70	0.55	0.00	0.55
18.15	0.65	0.00	0.65	20.75	0.54	0.00	0.54

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.54	0.00	0.54	23.40	0.44	0.00	0.44
20.85	0.54	0.00	0.54	23.45	0.44	0.00	0.44
20.90	0.54	0.00	0.54	23.50	0.44	0.00	0.44
20.95	0.54	0.00	0.54	23.55	0.43	0.00	0.43
21.00	0.53	0.00	0.53	23.60	0.43	0.00	0.43
21.05	0.53	0.00	0.53	23.65	0.43	0.00	0.43
21.10	0.53	0.00	0.53	23.70	0.43	0.00	0.43
21.15	0.53	0.00	0.53	23.75	0.43	0.00	0.43
21.20	0.53	0.00	0.53	23.80	0.42	0.00	0.42
21.25	0.52	0.00	0.52	23.85	0.42	0.00	0.42
21.30	0.52	0.00	0.52	23.90	0.42	0.00	0.42
21.35	0.52	0.00	0.52	23.95	0.44	0.00	0.44
21.40	0.52	0.00	0.52	24.00	0.46	0.00	0.46
21.45	0.52	0.00	0.52				
21.50	0.51	0.00	0.51				
21.55	0.51	0.00	0.51				
21.60	0.51	0.00	0.51				
21.65	0.51	0.00	0.51				
21.70	0.51	0.00	0.51				
21.75	0.50	0.00	0.50				
21.80	0.50	0.00	0.50				
21.85	0.50	0.00	0.50				
21.90	0.50	0.00	0.50				
21.95	0.50	0.00	0.50				
22.00	0.49	0.00	0.49				
22.05	0.49	0.00	0.49				
22.10	0.49	0.00	0.49				
22.15	0.49	0.00	0.49				
22.20	0.49	0.00	0.49				
22.25	0.49	0.00	0.49				
22.30	0.48	0.00	0.48				
22.35	0.48	0.00	0.48				
22.40	0.48	0.00	0.48				
22.45	0.48	0.00	0.48				
22.50	0.47	0.00	0.47				
22.55	0.47	0.00	0.47				
22.60	0.47	0.00	0.47				
22.65	0.47	0.00	0.47				
22.70	0.47	0.00	0.47				
22.75	0.46	0.00	0.46				
22.80	0.46	0.00	0.46				
22.85	0.46	0.00	0.46				
22.90	0.46	0.00	0.46				
22.95	0.46	0.00	0.46				
23.00	0.46	0.00	0.46				
23.05	0.45	0.00	0.45				
23.10	0.45	0.00	0.45				
23.15	0.45	0.00	0.45				
23.20	0.45	0.00	0.45				
23.25	0.44	0.00	0.44				
23.30	0.44	0.00	0.44				
23.35	0.44	0.00	0.44				

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment EDA 1B PERV: EDA-1B PERV Runoff Area=0.380 ac 0.00% Impervious Runoff Depth>2.58"
Flow Length=761' Tc=5.4 min CN=53 Runoff=1.03 cfs 0.082 af

Subcatchment EDA1AIMP: EDA1A IMP Runoff Area=1.100 ac 68.18% Impervious Runoff Depth>7.66"
Flow Length=496' Tc=3.1 min CN=97 Runoff=9.28 cfs 0.702 af

Subcatchment EDA1APERV: EDA-1APERV Runoff Area=0.280 ac 0.00% Impervious Runoff Depth>5.65"
Flow Length=496' Tc=3.1 min CN=80 Runoff=1.99 cfs 0.132 af

Subcatchment EDA1B IMP: EDA1B IMP Runoff Area=1.550 ac 19.35% Impervious Runoff Depth>7.54"
Flow Length=787' Tc=6.2 min CN=96 Runoff=10.66 cfs 0.973 af

Subcatchment EDA2 IMP: EDA2 IMP Runoff Area=0.310 ac 100.00% Impervious Runoff Depth>7.78"
Flow Length=351' Tc=2.2 min CN=98 Runoff=2.79 cfs 0.201 af

Subcatchment EDA3 IMP: EDA3 IMP Runoff Area=0.800 ac 100.00% Impervious Runoff Depth>7.78"
Flow Length=804' Tc=4.7 min CN=98 Runoff=6.07 cfs 0.519 af

Subcatchment EDA3 PERV: EDA3 PERV Runoff Area=0.850 ac 0.00% Impervious Runoff Depth>5.65"
Flow Length=131' Tc=3.4 min CN=80 Runoff=5.91 cfs 0.400 af

Subcatchment EDA4 IMP: EDA4 IMP Runoff Area=0.170 ac 70.59% Impervious Runoff Depth>7.67"
Flow Length=188' Tc=1.8 min CN=97 Runoff=1.55 cfs 0.109 af

Subcatchment EDA4 PERV: EDA4 PERV Runoff Area=1.440 ac 0.00% Impervious Runoff Depth>5.62"
Flow Length=415' Tc=15.0 min CN=80 Runoff=5.52 cfs 0.675 af

Link E1A: E1A Inflow=11.26 cfs 0.834 af
Primary=11.26 cfs 0.834 af

Link E1B: E1B Inflow=13.97 cfs 1.256 af
Primary=13.97 cfs 1.256 af

Link EPOI-1: EPOI-1 Inflow=42.40 cfs 3.792 af
Primary=42.40 cfs 3.792 af

Total Runoff Area = 6.880 ac Runoff Volume = 3.792 af Average Runoff Depth = 6.61"
66.86% Pervious = 4.600 ac 33.14% Impervious = 2.280 ac

Summary for Subcatchment EDA 1B PERV: EDA-1B PERV

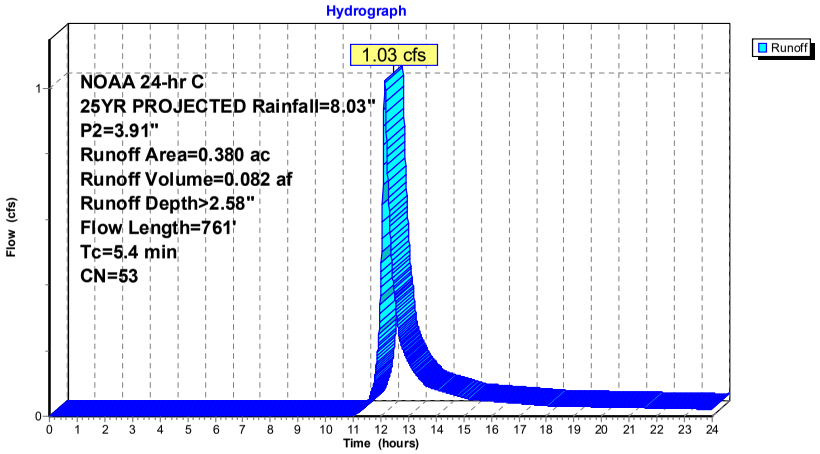
Runoff = 1.03 cfs @ 12.14 hrs, Volume= 0.082 af, Depth> 2.58"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR PROJECTED Rainfall=8.03", P2=3.91"

Area (ac)	CN	Description
0.250	39	>75% Grass cover, Good, HSG A
0.130	80	>75% Grass cover, Good, HSG D
0.380	53	Weighted Average
0.380		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	93	0.0100	1.14		**Sheet Flow, Grass** Smooth surfaces n= 0.011 P2= 3.91"
0.8	74	0.0100	1.50		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.3	93	0.0110	5.40	9.55	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
5.4	761	Total			

Subcatchment EDA 1B PERV: EDA-1B PERV



Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.24	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.25	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.25	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.26	0.00	0.00
0.20	0.02	0.00	0.00	2.80	0.26	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.27	0.00	0.00
0.30	0.03	0.00	0.00	2.90	0.27	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.28	0.00	0.00
0.40	0.04	0.00	0.00	3.00	0.28	0.00	0.00
0.45	0.04	0.00	0.00	3.05	0.29	0.00	0.00
0.50	0.04	0.00	0.00	3.10	0.29	0.00	0.00
0.55	0.05	0.00	0.00	3.15	0.30	0.00	0.00
0.60	0.05	0.00	0.00	3.20	0.30	0.00	0.00
0.65	0.06	0.00	0.00	3.25	0.31	0.00	0.00
0.70	0.06	0.00	0.00	3.30	0.32	0.00	0.00
0.75	0.07	0.00	0.00	3.35	0.32	0.00	0.00
0.80	0.07	0.00	0.00	3.40	0.33	0.00	0.00
0.85	0.07	0.00	0.00	3.45	0.33	0.00	0.00
0.90	0.08	0.00	0.00	3.50	0.34	0.00	0.00
0.95	0.08	0.00	0.00	3.55	0.34	0.00	0.00
1.00	0.09	0.00	0.00	3.60	0.35	0.00	0.00
1.05	0.09	0.00	0.00	3.65	0.35	0.00	0.00
1.10	0.10	0.00	0.00	3.70	0.36	0.00	0.00
1.15	0.10	0.00	0.00	3.75	0.36	0.00	0.00
1.20	0.11	0.00	0.00	3.80	0.37	0.00	0.00
1.25	0.11	0.00	0.00	3.85	0.38	0.00	0.00
1.30	0.12	0.00	0.00	3.90	0.38	0.00	0.00
1.35	0.12	0.00	0.00	3.95	0.39	0.00	0.00
1.40	0.12	0.00	0.00	4.00	0.39	0.00	0.00
1.45	0.13	0.00	0.00	4.05	0.40	0.00	0.00
1.50	0.13	0.00	0.00	4.10	0.40	0.00	0.00
1.55	0.14	0.00	0.00	4.15	0.41	0.00	0.00
1.60	0.14	0.00	0.00	4.20	0.42	0.00	0.00
1.65	0.15	0.00	0.00	4.25	0.42	0.00	0.00
1.70	0.15	0.00	0.00	4.30	0.43	0.00	0.00
1.75	0.16	0.00	0.00	4.35	0.43	0.00	0.00
1.80	0.16	0.00	0.00	4.40	0.44	0.00	0.00
1.85	0.17	0.00	0.00	4.45	0.45	0.00	0.00
1.90	0.17	0.00	0.00	4.50	0.45	0.00	0.00
1.95	0.18	0.00	0.00	4.55	0.46	0.00	0.00
2.00	0.18	0.00	0.00	4.60	0.46	0.00	0.00
2.05	0.19	0.00	0.00	4.65	0.47	0.00	0.00
2.10	0.19	0.00	0.00	4.70	0.47	0.00	0.00
2.15	0.20	0.00	0.00	4.75	0.48	0.00	0.00
2.20	0.20	0.00	0.00	4.80	0.49	0.00	0.00
2.25	0.21	0.00	0.00	4.85	0.49	0.00	0.00
2.30	0.21	0.00	0.00	4.90	0.50	0.00	0.00
2.35	0.22	0.00	0.00	4.95	0.50	0.00	0.00
2.40	0.22	0.00	0.00	5.00	0.51	0.00	0.00
2.45	0.23	0.00	0.00	5.05	0.52	0.00	0.00
2.50	0.23	0.00	0.00	5.10	0.52	0.00	0.00
2.55	0.24	0.00	0.00	5.15	0.53	0.00	0.00

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.54	0.00	0.00	7.80	0.92	0.00	0.00
5.25	0.54	0.00	0.00	7.85	0.93	0.00	0.00
5.30	0.55	0.00	0.00	7.90	0.94	0.00	0.00
5.35	0.55	0.00	0.00	7.95	0.95	0.00	0.00
5.40	0.56	0.00	0.00	8.00	0.96	0.00	0.00
5.45	0.57	0.00	0.00	8.05	0.97	0.00	0.00
5.50	0.57	0.00	0.00	8.10	0.98	0.00	0.00
5.55	0.58	0.00	0.00	8.15	0.99	0.00	0.00
5.60	0.59	0.00	0.00	8.20	1.00	0.00	0.00
5.65	0.59	0.00	0.00	8.25	1.01	0.00	0.00
5.70	0.60	0.00	0.00	8.30	1.02	0.00	0.00
5.75	0.60	0.00	0.00	8.35	1.03	0.00	0.00
5.80	0.61	0.00	0.00	8.40	1.04	0.00	0.00
5.85	0.62	0.00	0.00	8.45	1.05	0.00	0.00
5.90	0.62	0.00	0.00	8.50	1.06	0.00	0.00
5.95	0.63	0.00	0.00	8.55	1.07	0.00	0.00
6.00	0.64	0.00	0.00	8.60	1.08	0.00	0.00
6.05	0.64	0.00	0.00	8.65	1.10	0.00	0.00
6.10	0.65	0.00	0.00	8.70	1.11	0.00	0.00
6.15	0.66	0.00	0.00	8.75	1.12	0.00	0.00
6.20	0.66	0.00	0.00	8.80	1.13	0.00	0.00
6.25	0.67	0.00	0.00	8.85	1.14	0.00	0.00
6.30	0.68	0.00	0.00	8.90	1.15	0.00	0.00
6.35	0.68	0.00	0.00	8.95	1.16	0.00	0.00
6.40	0.69	0.00	0.00	9.00	1.17	0.00	0.00
6.45	0.70	0.00	0.00	9.05	1.18	0.00	0.00
6.50	0.71	0.00	0.00	9.10	1.20	0.00	0.00
6.55	0.71	0.00	0.00	9.15	1.21	0.00	0.00
6.60	0.72	0.00	0.00	9.20	1.22	0.00	0.00
6.65	0.73	0.00	0.00	9.25	1.23	0.00	0.00
6.70	0.74	0.00	0.00	9.30	1.25	0.00	0.00
6.75	0.74	0.00	0.00	9.35	1.26	0.00	0.00
6.80	0.75	0.00	0.00	9.40	1.27	0.00	0.00
6.85	0.76	0.00	0.00	9.45	1.29	0.00	0.00
6.90	0.77	0.00	0.00	9.50	1.30	0.00	0.00
6.95	0.78	0.00	0.00	9.55	1.32	0.00	0.00
7.00	0.78	0.00	0.00	9.60	1.33	0.00	0.00
7.05	0.79	0.00	0.00	9.65	1.35	0.00	0.00
7.10	0.80	0.00	0.00	9.70	1.36	0.00	0.00
7.15	0.81	0.00	0.00	9.75	1.38	0.00	0.00
7.20	0.82	0.00	0.00	9.80	1.40	0.00	0.00
7.25	0.83	0.00	0.00	9.85	1.41	0.00	0.00
7.30	0.83	0.00	0.00	9.90	1.43	0.00	0.00
7.35	0.84	0.00	0.00	9.95	1.45	0.00	0.00
7.40	0.85	0.00	0.00	10.00	1.46	0.00	0.00
7.45	0.86	0.00	0.00	10.05	1.48	0.00	0.00
7.50	0.87	0.00	0.00	10.10	1.50	0.00	0.00
7.55	0.88	0.00	0.00	10.15	1.52	0.00	0.00
7.60	0.89	0.00	0.00	10.20	1.54	0.00	0.00
7.65	0.90	0.00	0.00	10.25	1.56	0.00	0.00
7.70	0.91	0.00	0.00	10.30	1.58	0.00	0.00
7.75	0.91	0.00	0.00	10.35	1.59	0.00	0.00

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.61	0.00	0.00	13.00	6.10	1.42	0.17
10.45	1.63	0.00	0.00	13.05	6.13	1.44	0.16
10.50	1.65	0.00	0.00	13.10	6.17	1.46	0.15
10.55	1.68	0.00	0.00	13.15	6.20	1.47	0.14
10.60	1.70	0.00	0.00	13.20	6.23	1.49	0.14
10.65	1.73	0.00	0.00	13.25	6.25	1.50	0.13
10.70	1.75	0.00	0.00	13.30	6.28	1.52	0.12
10.75	1.78	0.00	0.00	13.35	6.30	1.53	0.12
10.80	1.80	0.00	0.00	13.40	6.33	1.55	0.12
10.85	1.83	0.00	0.00	13.45	6.35	1.56	0.11
10.90	1.86	0.00	0.00	13.50	6.38	1.57	0.11
10.95	1.90	0.00	0.00	13.55	6.40	1.58	0.10
11.00	1.93	0.00	0.00	13.60	6.42	1.60	0.10
11.05	1.96	0.00	0.01	13.65	6.44	1.61	0.09
11.10	2.00	0.01	0.01	13.70	6.45	1.62	0.09
11.15	2.04	0.01	0.01	13.75	6.47	1.63	0.09
11.20	2.08	0.01	0.01	13.80	6.49	1.64	0.09
11.25	2.13	0.01	0.02	13.85	6.51	1.65	0.09
11.30	2.17	0.02	0.02	13.90	6.53	1.66	0.08
11.35	2.22	0.02	0.02	13.95	6.55	1.67	0.08
11.40	2.27	0.03	0.03	14.00	6.57	1.68	0.08
11.45	2.32	0.03	0.03	14.05	6.58	1.69	0.08
11.50	2.37	0.04	0.04	14.10	6.60	1.70	0.08
11.55	2.45	0.05	0.04	14.15	6.62	1.71	0.08
11.60	2.54	0.06	0.06	14.20	6.63	1.72	0.08
11.65	2.62	0.07	0.07	14.25	6.65	1.73	0.08
11.70	2.71	0.09	0.09	14.30	6.67	1.74	0.07
11.75	2.82	0.11	0.10	14.35	6.68	1.75	0.07
11.80	2.94	0.14	0.13	14.40	6.70	1.76	0.07
11.85	3.10	0.17	0.16	14.45	6.71	1.77	0.07
11.90	3.27	0.21	0.21	14.50	6.73	1.78	0.07
11.95	3.55	0.30	0.29	14.55	6.74	1.78	0.07
12.00	3.83	0.39	0.42	14.60	6.76	1.79	0.07
12.05	4.30	0.56	0.59	14.65	6.77	1.80	0.07
12.10	4.76	0.75	**0.89**	14.70	6.78	1.81	0.06
12.15	4.93	0.83	**1.02**	14.75	6.80	1.82	0.06
12.20	5.09	0.90	0.87	14.80	6.81	1.82	0.06
12.25	5.21	0.96	0.74	14.85	6.82	1.83	0.06
12.30	5.32	1.02	0.63	14.90	6.83	1.84	0.06
12.35	5.41	1.06	0.54	14.95	6.85	1.85	0.06
12.40	5.49	1.10	0.46	15.00	6.86	1.85	0.06
12.45	5.58	1.14	0.40	15.05	6.87	1.86	0.06
12.50	5.66	1.18	0.37	15.10	6.88	1.87	0.05
12.55	5.71	1.21	0.33	15.15	6.89	1.87	0.05
12.60	5.76	1.24	0.29	15.20	6.90	1.88	0.05
12.65	5.81	1.26	0.25	15.25	6.91	1.89	0.05
12.70	5.86	1.29	0.23	15.30	6.92	1.89	0.05
12.75	5.90	1.31	0.22	15.35	6.93	1.90	0.05
12.80	5.95	1.34	0.20	15.40	6.95	1.91	0.05
12.85	5.99	1.36	0.19	15.45	6.96	1.91	0.05
12.90	6.03	1.38	0.18	15.50	6.97	1.92	0.05
12.95	6.07	1.40	0.17	15.55	6.98	1.92	0.05

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	6.99	1.93	0.05	18.20	7.42	2.20	0.03
15.65	7.00	1.94	0.05	18.25	7.43	2.20	0.03
15.70	7.01	1.94	0.05	18.30	7.43	2.20	0.03
15.75	7.02	1.95	0.05	18.35	7.44	2.21	0.03
15.80	7.03	1.96	0.05	18.40	7.44	2.21	0.03
15.85	7.04	1.96	0.05	18.45	7.45	2.22	0.03
15.90	7.05	1.97	0.05	18.50	7.46	2.22	0.03
15.95	7.06	1.97	0.05	18.55	7.46	2.22	0.03
16.00	7.07	1.98	0.05	18.60	7.47	2.23	0.03
16.05	7.08	1.99	0.05	18.65	7.48	2.23	0.03
16.10	7.09	1.99	0.05	18.70	7.48	2.24	0.03
16.15	7.10	2.00	0.05	18.75	7.49	2.24	0.03
16.20	7.11	2.00	0.04	18.80	7.49	2.24	0.03
16.25	7.12	2.01	0.04	18.85	7.50	2.25	0.03
16.30	7.12	2.01	0.04	18.90	7.51	2.25	0.03
16.35	7.13	2.02	0.04	18.95	7.51	2.26	0.03
16.40	7.14	2.03	0.04	19.00	7.52	2.26	0.03
16.45	7.15	2.03	0.04	19.05	7.53	2.26	0.03
16.50	7.16	2.04	0.04	19.10	7.53	2.27	0.03
16.55	7.17	2.04	0.04	19.15	7.54	2.27	0.03
16.60	7.18	2.05	0.04	19.20	7.54	2.27	0.03
16.65	7.19	2.05	0.04	19.25	7.55	2.28	0.03
16.70	7.20	2.06	0.04	19.30	7.56	2.28	0.03
16.75	7.20	2.06	0.04	19.35	7.56	2.29	0.03
16.80	7.21	2.07	0.04	19.40	7.57	2.29	0.03
16.85	7.22	2.07	0.04	19.45	7.57	2.29	0.03
16.90	7.23	2.08	0.04	19.50	7.58	2.30	0.03
16.95	7.24	2.08	0.04	19.55	7.58	2.30	0.03
17.00	7.25	2.09	0.04	19.60	7.59	2.30	0.03
17.05	7.25	2.09	0.04	19.65	7.60	2.31	0.03
17.10	7.26	2.10	0.04	19.70	7.60	2.31	0.03
17.15	7.27	2.10	0.04	19.75	7.61	2.32	0.03
17.20	7.28	2.11	0.04	19.80	7.61	2.32	0.03
17.25	7.29	2.11	0.04	19.85	7.62	2.32	0.03
17.30	7.29	2.12	0.04	19.90	7.63	2.33	0.03
17.35	7.30	2.12	0.04	19.95	7.63	2.33	0.03
17.40	7.31	2.13	0.04	20.00	7.64	2.33	0.03
17.45	7.32	2.13	0.04	20.05	7.64	2.34	0.03
17.50	7.32	2.14	0.04	20.10	7.65	2.34	0.03
17.55	7.33	2.14	0.04	20.15	7.65	2.34	0.03
17.60	7.34	2.15	0.04	20.20	7.66	2.35	0.03
17.65	7.35	2.15	0.03	20.25	7.67	2.35	0.03
17.70	7.35	2.15	0.03	20.30	7.67	2.36	0.03
17.75	7.36	2.16	0.03	20.35	7.68	2.36	0.03
17.80	7.37	2.16	0.03	20.40	7.68	2.36	0.03
17.85	7.37	2.17	0.03	20.45	7.69	2.37	0.03
17.90	7.38	2.17	0.03	20.50	7.69	2.37	0.03
17.95	7.39	2.18	0.03	20.55	7.70	2.37	0.03
18.00	7.39	2.18	0.03	20.60	7.70	2.38	0.03
18.05	7.40	2.18	0.03	20.65	7.71	2.38	0.03
18.10	7.41	2.19	0.03	20.70	7.71	2.38	0.03
18.15	7.41	2.19	0.03	20.75	7.72	2.39	0.03

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	7.73	2.39	0.03	23.40	7.98	2.55	0.02
20.85	7.73	2.39	0.03	23.45	7.98	2.56	0.02
20.90	7.74	2.40	0.03	23.50	7.99	2.56	0.02
20.95	7.74	2.40	0.03	23.55	7.99	2.56	0.02
21.00	7.75	2.40	0.03	23.60	7.99	2.56	0.02
21.05	7.75	2.41	0.03	23.65	8.00	2.57	0.02
21.10	7.76	2.41	0.03	23.70	8.00	2.57	0.02
21.15	7.76	2.41	0.03	23.75	8.01	2.57	0.02
21.20	7.77	2.42	0.03	23.80	8.01	2.58	0.02
21.25	7.77	2.42	0.03	23.85	8.02	2.58	0.02
21.30	7.78	2.42	0.03	23.90	8.02	2.58	0.02
21.35	7.78	2.43	0.03	23.95	8.02	2.58	0.02
21.40	7.79	2.43	0.03	24.00	**8.03**	**2.59**	0.02
21.45	7.79	2.43	0.03				
21.50	7.80	2.44	0.03				
21.55	7.80	2.44	0.03				
21.60	7.81	2.44	0.03				
21.65	7.81	2.45	0.03				
21.70	7.82	2.45	0.03				
21.75	7.82	2.45	0.02				
21.80	7.83	2.46	0.02				
21.85	7.83	2.46	0.02				
21.90	7.84	2.46	0.02				
21.95	7.84	2.47	0.02				
22.00	7.85	2.47	0.02				
22.05	7.85	2.47	0.02				
22.10	7.86	2.48	0.02				
22.15	7.86	2.48	0.02				
22.20	7.87	2.48	0.02				
22.25	7.87	2.49	0.02				
22.30	7.88	2.49	0.02				
22.35	7.88	2.49	0.02				
22.40	7.89	2.49	0.02				
22.45	7.89	2.50	0.02				
22.50	7.90	2.50	0.02				
22.55	7.90	2.50	0.02				
22.60	7.91	2.51	0.02				
22.65	7.91	2.51	0.02				
22.70	7.91	2.51	0.02				
22.75	7.92	2.52	0.02				
22.80	7.92	2.52	0.02				
22.85	7.93	2.52	0.02				
22.90	7.93	2.52	0.02				
22.95	7.94	2.53	0.02				
23.00	7.94	2.53	0.02				
23.05	7.95	2.53	0.02				
23.10	7.95	2.54	0.02				
23.15	7.96	2.54	0.02				
23.20	7.96	2.54	0.02				
23.25	7.96	2.55	0.02				
23.30	7.97	2.55	0.02				
23.35	7.97	2.55	0.02				

Summary for Subcatchment EDA1A IMP: EDA1A IMP

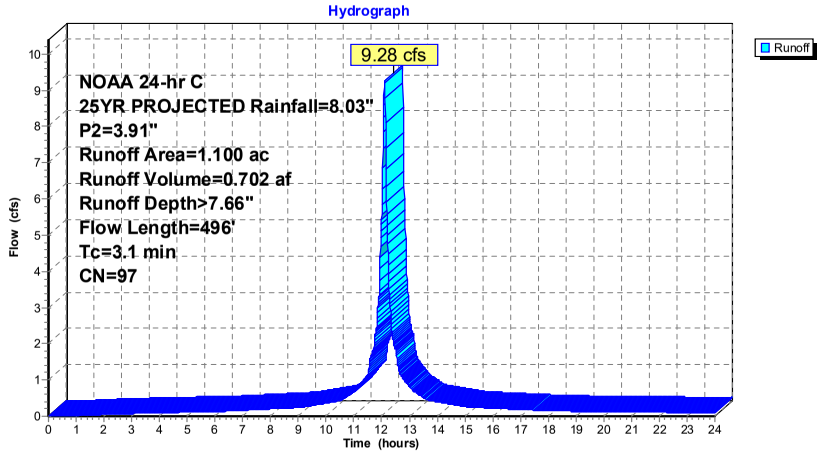
Runoff = 9.28 cfs @ 12.11 hrs, Volume= 0.702 af, Depth> 7.66"
Routed to Link E1A : E1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR PROJECTED Rainfall=8.03", P2=3.91"

	Area (ac)	CN	Description
	0.350	96	Gravel surface, HSG D
*	0.570	98	Impervious vehicular
*	0.180	98	Impervious non vehicular
	1.100	97	Weighted Average
	0.350		31.82% Pervious Area
	0.750		68.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0100	1.15		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
3.1	496	Total			

Subcatchment EDA1A IMP: EDA1A IMP



Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.24	0.07	0.07
0.05	0.01	0.00	0.00	2.65	0.25	0.07	0.07
0.10	0.01	0.00	0.00	2.70	0.25	0.07	0.07
0.15	0.01	0.00	0.00	2.75	0.26	0.08	0.07
0.20	0.02	0.00	0.00	2.80	0.26	0.08	0.07
0.25	0.02	0.00	0.00	2.85	0.27	0.08	0.07
0.30	0.03	0.00	0.00	2.90	0.27	0.09	0.07
0.35	0.03	0.00	0.00	2.95	0.28	0.09	0.07
0.40	0.04	0.00	0.00	3.00	0.28	0.09	0.08
0.45	0.04	0.00	0.00	3.05	0.29	0.10	0.08
0.50	0.04	0.00	0.00	3.10	0.29	0.10	0.08
0.55	0.05	0.00	0.00	3.15	0.30	0.10	0.08
0.60	0.05	0.00	0.00	3.20	0.30	0.11	0.08
0.65	0.06	0.00	0.00	3.25	0.31	0.11	0.08
0.70	0.06	0.00	0.00	3.30	0.32	0.11	0.08
0.75	0.07	0.00	0.00	3.35	0.32	0.12	0.08
0.80	0.07	0.00	0.00	3.40	0.33	0.12	0.08
0.85	0.07	0.00	0.00	3.45	0.33	0.13	0.09
0.90	0.08	0.00	0.01	3.50	0.34	0.13	0.09
0.95	0.08	0.00	0.01	3.55	0.34	0.13	0.09
1.00	0.09	0.00	0.01	3.60	0.35	0.14	0.09
1.05	0.09	0.00	0.01	3.65	0.35	0.14	0.09
1.10	0.10	0.00	0.02	3.70	0.36	0.15	0.09
1.15	0.10	0.00	0.02	3.75	0.36	0.15	0.09
1.20	0.11	0.01	0.02	3.80	0.37	0.15	0.09
1.25	0.11	0.01	0.02	3.85	0.38	0.16	0.09
1.30	0.12	0.01	0.02	3.90	0.38	0.16	0.09
1.35	0.12	0.01	0.03	3.95	0.39	0.17	0.09
1.40	0.12	0.01	0.03	4.00	0.39	0.17	0.10
1.45	0.13	0.01	0.03	4.05	0.40	0.18	0.10
1.50	0.13	0.01	0.03	4.10	0.40	0.18	0.10
1.55	0.14	0.02	0.03	4.15	0.41	0.18	0.10
1.60	0.14	0.02	0.04	4.20	0.42	0.19	0.10
1.65	0.15	0.02	0.04	4.25	0.42	0.19	0.10
1.70	0.15	0.02	0.04	4.30	0.43	0.20	0.10
1.75	0.16	0.02	0.04	4.35	0.43	0.20	0.10
1.80	0.16	0.02	0.04	4.40	0.44	0.21	0.10
1.85	0.17	0.03	0.04	4.45	0.45	0.21	0.10
1.90	0.17	0.03	0.05	4.50	0.45	0.22	0.10
1.95	0.18	0.03	0.05	4.55	0.46	0.22	0.10
2.00	0.18	0.03	0.05	4.60	0.46	0.23	0.11
2.05	0.19	0.04	0.05	4.65	0.47	0.23	0.11
2.10	0.19	0.04	0.05	4.70	0.47	0.24	0.11
2.15	0.20	0.04	0.05	4.75	0.48	0.24	0.11
2.20	0.20	0.04	0.06	4.80	0.49	0.25	0.11
2.25	0.21	0.05	0.06	4.85	0.49	0.25	0.11
2.30	0.21	0.05	0.06	4.90	0.50	0.26	0.11
2.35	0.22	0.05	0.06	4.95	0.50	0.26	0.11
2.40	0.22	0.05	0.06	5.00	0.51	0.27	0.11
2.45	0.23	0.06	0.06	5.05	0.52	0.27	0.11
2.50	0.23	0.06	0.06	5.10	0.52	0.28	0.11
2.55	0.24	0.06	0.06	5.15	0.53	0.28	0.11

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.54	0.29	0.11	7.80	0.92	0.63	0.19
5.25	0.54	0.29	0.11	7.85	0.93	0.64	0.19
5.30	0.55	0.30	0.12	7.90	0.94	0.65	0.20
5.35	0.55	0.30	0.12	7.95	0.95	0.66	0.20
5.40	0.56	0.31	0.12	8.00	0.96	0.67	0.20
5.45	0.57	0.31	0.12	8.05	0.97	0.68	0.20
5.50	0.57	0.32	0.12	8.10	0.98	0.69	0.20
5.55	0.58	0.32	0.12	8.15	0.99	0.70	0.20
5.60	0.59	0.33	0.12	8.20	1.00	0.71	0.21
5.65	0.59	0.33	0.12	8.25	1.01	0.72	0.21
5.70	0.60	0.34	0.12	8.30	1.02	0.73	0.21
5.75	0.60	0.35	0.12	8.35	1.03	0.74	0.21
5.80	0.61	0.35	0.12	8.40	1.04	0.75	0.21
5.85	0.62	0.36	0.12	8.45	1.05	0.76	0.22
5.90	0.62	0.36	0.12	8.50	1.06	0.77	0.22
5.95	0.63	0.37	0.12	8.55	1.07	0.78	0.22
6.00	0.64	0.37	0.13	8.60	1.08	0.79	0.22
6.05	0.64	0.38	0.13	8.65	1.10	0.80	0.22
6.10	0.65	0.39	0.13	8.70	1.11	0.81	0.23
6.15	0.66	0.39	0.13	8.75	1.12	0.82	0.23
6.20	0.66	0.40	0.13	8.80	1.13	0.83	0.23
6.25	0.67	0.40	0.13	8.85	1.14	0.84	0.23
6.30	0.68	0.41	0.14	8.90	1.15	0.85	0.23
6.35	0.68	0.42	0.14	8.95	1.16	0.86	0.23
6.40	0.69	0.42	0.14	9.00	1.17	0.87	0.24
6.45	0.70	0.43	0.14	9.05	1.18	0.88	0.24
6.50	0.71	0.44	0.14	9.10	1.20	0.89	0.25
6.55	0.71	0.44	0.14	9.15	1.21	0.90	0.25
6.60	0.72	0.45	0.15	9.20	1.22	0.92	0.26
6.65	0.73	0.46	0.15	9.25	1.23	0.93	0.27
6.70	0.74	0.46	0.15	9.30	1.25	0.94	0.27
6.75	0.74	0.47	0.15	9.35	1.26	0.95	0.28
6.80	0.75	0.48	0.15	9.40	1.27	0.97	0.29
6.85	0.76	0.48	0.16	9.45	1.29	0.98	0.29
6.90	0.77	0.49	0.16	9.50	1.30	0.99	0.30
6.95	0.78	0.50	0.16	9.55	1.32	1.01	0.31
7.00	0.78	0.50	0.16	9.60	1.33	1.02	0.31
7.05	0.79	0.51	0.16	9.65	1.35	1.04	0.32
7.10	0.80	0.52	0.17	9.70	1.36	1.05	0.33
7.15	0.81	0.53	0.17	9.75	1.38	1.07	0.33
7.20	0.82	0.54	0.17	9.80	1.40	1.08	0.34
7.25	0.83	0.54	0.17	9.85	1.41	1.10	0.35
7.30	0.83	0.55	0.17	9.90	1.43	1.12	0.35
7.35	0.84	0.56	0.17	9.95	1.45	1.13	0.36
7.40	0.85	0.57	0.18	10.00	1.46	1.15	0.37
7.45	0.86	0.58	0.18	10.05	1.48	1.17	0.37
7.50	0.87	0.58	0.18	10.10	1.50	1.18	0.38
7.55	0.88	0.59	0.18	10.15	1.52	1.20	0.39
7.60	0.89	0.60	0.18	10.20	1.54	1.22	0.39
7.65	0.90	0.61	0.19	10.25	1.56	1.24	0.40
7.70	0.91	0.62	0.19	10.30	1.58	1.26	0.41
7.75	0.91	0.63	0.19	10.35	1.59	1.28	0.41

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.61	1.29	0.42	13.00	6.10	5.75	0.83
10.45	1.63	1.31	0.43	13.05	6.13	5.78	0.78
10.50	1.65	1.33	0.43	13.10	6.17	5.81	0.73
10.55	1.68	1.36	0.45	13.15	6.20	5.84	0.70
10.60	1.70	1.38	0.47	13.20	6.23	5.87	0.67
10.65	1.73	1.40	0.50	13.25	6.25	5.90	0.64
10.70	1.75	1.43	0.52	13.30	6.28	5.92	0.62
10.75	1.78	1.45	0.55	13.35	6.30	5.95	0.59
10.80	1.80	1.48	0.57	13.40	6.33	5.97	0.57
10.85	1.83	1.51	0.60	13.45	6.35	6.00	0.54
10.90	1.86	1.54	0.62	13.50	6.38	6.02	0.52
10.95	1.90	1.57	0.65	13.55	6.40	6.04	0.49
11.00	1.93	1.60	0.68	13.60	6.42	6.06	0.47
11.05	1.96	1.64	0.72	13.65	6.44	6.08	0.45
11.10	2.00	1.67	0.76	13.70	6.45	6.10	0.44
11.15	2.04	1.71	0.81	13.75	6.47	6.12	0.43
11.20	2.08	1.75	0.85	13.80	6.49	6.14	0.43
11.25	2.13	1.79	0.90	13.85	6.51	6.15	0.42
11.30	2.17	1.84	0.95	13.90	6.53	6.17	0.41
11.35	2.22	1.89	1.00	13.95	6.55	6.19	0.41
11.40	2.27	1.93	1.04	14.00	6.57	6.21	0.40
11.45	2.32	1.99	1.09	14.05	6.58	6.23	0.39
11.50	2.37	2.04	1.12	14.10	6.60	6.24	0.39
11.55	2.45	2.12	1.36	14.15	6.62	6.26	0.38
11.60	2.54	2.20	1.60	14.20	6.63	6.28	0.37
11.65	2.62	2.28	1.74	14.25	6.65	6.29	0.37
11.70	2.71	2.37	1.82	14.30	6.67	6.31	0.36
11.75	2.82	2.48	2.11	14.35	6.68	6.32	0.35
11.80	2.94	2.60	2.38	14.40	6.70	6.34	0.35
11.85	3.10	2.76	2.86	14.45	6.71	6.35	0.34
11.90	3.27	2.92	3.28	14.50	6.73	6.37	0.33
11.95	3.55	3.20	4.40	14.55	6.74	6.38	0.33
12.00	3.83	3.48	5.44	14.60	6.76	6.40	0.32
12.05	4.30	3.95	7.39	14.65	6.77	6.41	0.31
12.10	4.76	4.41	**9.12**	14.70	6.78	6.42	0.31
12.15	4.93	4.57	**7.42**	14.75	6.80	6.44	0.30
12.20	5.09	4.74	5.26	14.80	6.81	6.45	0.29
12.25	5.21	4.85	3.93	14.85	6.82	6.46	0.29
12.30	5.32	4.97	3.11	14.90	6.83	6.48	0.28
12.35	5.41	5.06	2.52	14.95	6.85	6.49	0.27
12.40	5.49	5.14	2.14	15.00	6.86	6.50	0.27
12.45	5.58	5.22	1.94	15.05	6.87	6.51	0.26
12.50	5.66	5.30	1.85	15.10	6.88	6.52	0.25
12.55	5.71	5.35	1.58	15.15	6.89	6.53	0.25
12.60	5.76	5.41	1.34	15.20	6.90	6.54	0.25
12.65	5.81	5.46	1.20	15.25	6.91	6.56	0.24
12.70	5.86	5.50	1.13	15.30	6.92	6.57	0.24
12.75	5.90	5.55	1.07	15.35	6.93	6.58	0.24
12.80	5.95	5.59	1.02	15.40	6.95	6.59	0.24
12.85	5.99	5.63	0.97	15.45	6.96	6.60	0.24
12.90	6.03	5.67	0.93	15.50	6.97	6.61	0.24
12.95	6.07	5.71	0.87	15.55	6.98	6.62	0.23

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	6.99	6.63	0.23	18.20	7.42	7.06	0.14
15.65	7.00	6.64	0.23	18.25	7.43	7.07	0.14
15.70	7.01	6.65	0.23	18.30	7.43	7.07	0.14
15.75	7.02	6.66	0.23	18.35	7.44	7.08	0.14
15.80	7.03	6.67	0.23	18.40	7.44	7.09	0.14
15.85	7.04	6.68	0.22	18.45	7.45	7.09	0.14
15.90	7.05	6.69	0.22	18.50	7.46	7.10	0.14
15.95	7.06	6.70	0.22	18.55	7.46	7.10	0.14
16.00	7.07	6.71	0.22	18.60	7.47	7.11	0.14
16.05	7.08	6.72	0.22	18.65	7.48	7.12	0.14
16.10	7.09	6.73	0.22	18.70	7.48	7.12	0.14
16.15	7.10	6.74	0.21	18.75	7.49	7.13	0.14
16.20	7.11	6.75	0.21	18.80	7.49	7.14	0.14
16.25	7.12	6.76	0.21	18.85	7.50	7.14	0.14
16.30	7.12	6.77	0.21	18.90	7.51	7.15	0.14
16.35	7.13	6.78	0.21	18.95	7.51	7.15	0.14
16.40	7.14	6.79	0.20	19.00	7.52	7.16	0.14
16.45	7.15	6.79	0.20	19.05	7.53	7.17	0.13
16.50	7.16	6.80	0.20	19.10	7.53	7.17	0.13
16.55	7.17	6.81	0.20	19.15	7.54	7.18	0.13
16.60	7.18	6.82	0.20	19.20	7.54	7.18	0.13
16.65	7.19	6.83	0.20	19.25	7.55	7.19	0.13
16.70	7.20	6.84	0.19	19.30	7.56	7.20	0.13
16.75	7.20	6.85	0.19	19.35	7.56	7.20	0.13
16.80	7.21	6.86	0.19	19.40	7.57	7.21	0.13
16.85	7.22	6.86	0.19	19.45	7.57	7.21	0.13
16.90	7.23	6.87	0.19	19.50	7.58	7.22	0.13
16.95	7.24	6.88	0.18	19.55	7.58	7.23	0.13
17.00	7.25	6.89	0.18	19.60	7.59	7.23	0.13
17.05	7.25	6.90	0.18	19.65	7.60	7.24	0.13
17.10	7.26	6.90	0.18	19.70	7.60	7.24	0.13
17.15	7.27	6.91	0.18	19.75	7.61	7.25	0.13
17.20	7.28	6.92	0.18	19.80	7.61	7.26	0.13
17.25	7.29	6.93	0.17	19.85	7.62	7.26	0.13
17.30	7.29	6.94	0.17	19.90	7.63	7.27	0.13
17.35	7.30	6.94	0.17	19.95	7.63	7.27	0.13
17.40	7.31	6.95	0.17	20.00	7.64	7.28	0.13
17.45	7.32	6.96	0.17	20.05	7.64	7.28	0.13
17.50	7.32	6.97	0.17	20.10	7.65	7.29	0.13
17.55	7.33	6.97	0.16	20.15	7.65	7.29	0.13
17.60	7.34	6.98	0.16	20.20	7.66	7.30	0.12
17.65	7.35	6.99	0.16	20.25	7.67	7.31	0.12
17.70	7.35	6.99	0.16	20.30	7.67	7.31	0.12
17.75	7.36	7.00	0.16	20.35	7.68	7.32	0.12
17.80	7.37	7.01	0.15	20.40	7.68	7.32	0.12
17.85	7.37	7.02	0.15	20.45	7.69	7.33	0.12
17.90	7.38	7.02	0.15	20.50	7.69	7.33	0.12
17.95	7.39	7.03	0.15	20.55	7.70	7.34	0.12
18.00	7.39	7.04	0.15	20.60	7.70	7.34	0.12
18.05	7.40	7.04	0.15	20.65	7.71	7.35	0.12
18.10	7.41	7.05	0.14	20.70	7.71	7.36	0.12
18.15	7.41	7.05	0.14	20.75	7.72	7.36	0.12

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	7.73	7.37	0.12	23.40	7.98	7.62	0.10
20.85	7.73	7.37	0.12	23.45	7.98	7.62	0.10
20.90	7.74	7.38	0.12	23.50	7.99	7.63	0.10
20.95	7.74	7.38	0.12	23.55	7.99	7.63	0.10
21.00	7.75	7.39	0.12	23.60	7.99	7.64	0.09
21.05	7.75	7.39	0.12	23.65	8.00	7.64	0.09
21.10	7.76	7.40	0.12	23.70	8.00	7.64	0.09
21.15	7.76	7.40	0.12	23.75	8.01	7.65	0.09
21.20	7.77	7.41	0.12	23.80	8.01	7.65	0.09
21.25	7.77	7.41	0.12	23.85	8.02	7.66	0.09
21.30	7.78	7.42	0.12	23.90	8.02	7.66	0.09
21.35	7.78	7.42	0.11	23.95	8.02	7.67	0.10
21.40	7.79	7.43	0.11	24.00	**8.03**	**7.67**	0.11
21.45	7.79	7.43	0.11				
21.50	7.80	7.44	0.11				
21.55	7.80	7.44	0.11				
21.60	7.81	7.45	0.11				
21.65	7.81	7.45	0.11				
21.70	7.82	7.46	0.11				
21.75	7.82	7.46	0.11				
21.80	7.83	7.47	0.11				
21.85	7.83	7.47	0.11				
21.90	7.84	7.48	0.11				
21.95	7.84	7.48	0.11				
22.00	7.85	7.49	0.11				
22.05	7.85	7.49	0.11				
22.10	7.86	7.50	0.11				
22.15	7.86	7.50	0.11				
22.20	7.87	7.51	0.11				
22.25	7.87	7.51	0.11				
22.30	7.88	7.52	0.11				
22.35	7.88	7.52	0.11				
22.40	7.89	7.53	0.11				
22.45	7.89	7.53	0.10				
22.50	7.90	7.54	0.10				
22.55	7.90	7.54	0.10				
22.60	7.91	7.55	0.10				
22.65	7.91	7.55	0.10				
22.70	7.91	7.56	0.10				
22.75	7.92	7.56	0.10				
22.80	7.92	7.56	0.10				
22.85	7.93	7.57	0.10				
22.90	7.93	7.57	0.10				
22.95	7.94	7.58	0.10				
23.00	7.94	7.58	0.10				
23.05	7.95	7.59	0.10				
23.10	7.95	7.59	0.10				
23.15	7.96	7.60	0.10				
23.20	7.96	7.60	0.10				
23.25	7.96	7.60	0.10				
23.30	7.97	7.61	0.10				
23.35	7.97	7.61	0.10				

Summary for Subcatchment EDA1A PERV: EDA-1A PERV

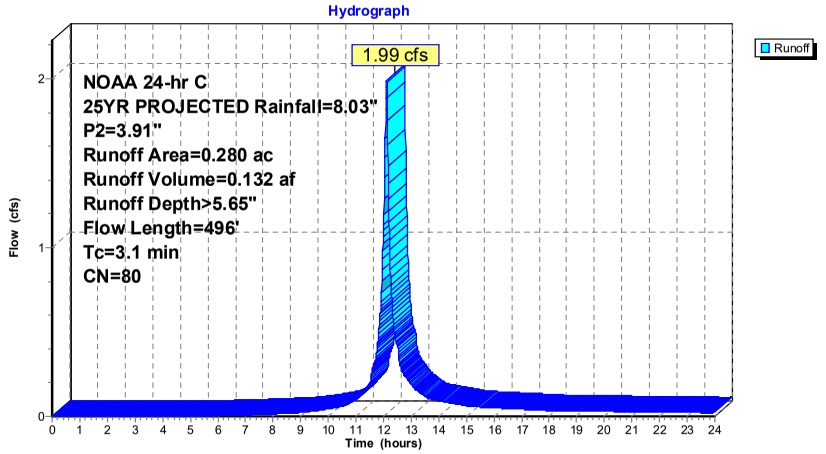
Runoff = 1.99 cfs @ 12.11 hrs, Volume= 0.132 af, Depth> 5.65"
Routed to Link E1A : E1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR PROJECTED Rainfall=8.03", P2=3.91"

Area (ac)	CN	Description
0.280	80	>75% Grass cover, Good, HSG D
0.280		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0100	1.15		**Sheet Flow, paved** Smooth surfaces n= 0.011 P2= 3.91"
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP-2 Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
3.1	496	Total			

Subcatchment EDA1A PERV: EDA-1A PERV



Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.24	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.25	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.25	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.26	0.00	0.00
0.20	0.02	0.00	0.00	2.80	0.26	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.27	0.00	0.00
0.30	0.03	0.00	0.00	2.90	0.27	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.28	0.00	0.00
0.40	0.04	0.00	0.00	3.00	0.28	0.00	0.00
0.45	0.04	0.00	0.00	3.05	0.29	0.00	0.00
0.50	0.04	0.00	0.00	3.10	0.29	0.00	0.00
0.55	0.05	0.00	0.00	3.15	0.30	0.00	0.00
0.60	0.05	0.00	0.00	3.20	0.30	0.00	0.00
0.65	0.06	0.00	0.00	3.25	0.31	0.00	0.00
0.70	0.06	0.00	0.00	3.30	0.32	0.00	0.00
0.75	0.07	0.00	0.00	3.35	0.32	0.00	0.00
0.80	0.07	0.00	0.00	3.40	0.33	0.00	0.00
0.85	0.07	0.00	0.00	3.45	0.33	0.00	0.00
0.90	0.08	0.00	0.00	3.50	0.34	0.00	0.00
0.95	0.08	0.00	0.00	3.55	0.34	0.00	0.00
1.00	0.09	0.00	0.00	3.60	0.35	0.00	0.00
1.05	0.09	0.00	0.00	3.65	0.35	0.00	0.00
1.10	0.10	0.00	0.00	3.70	0.36	0.00	0.00
1.15	0.10	0.00	0.00	3.75	0.36	0.00	0.00
1.20	0.11	0.00	0.00	3.80	0.37	0.00	0.00
1.25	0.11	0.00	0.00	3.85	0.38	0.00	0.00
1.30	0.12	0.00	0.00	3.90	0.38	0.00	0.00
1.35	0.12	0.00	0.00	3.95	0.39	0.00	0.00
1.40	0.12	0.00	0.00	4.00	0.39	0.00	0.00
1.45	0.13	0.00	0.00	4.05	0.40	0.00	0.00
1.50	0.13	0.00	0.00	4.10	0.40	0.00	0.00
1.55	0.14	0.00	0.00	4.15	0.41	0.00	0.00
1.60	0.14	0.00	0.00	4.20	0.42	0.00	0.00
1.65	0.15	0.00	0.00	4.25	0.42	0.00	0.00
1.70	0.15	0.00	0.00	4.30	0.43	0.00	0.00
1.75	0.16	0.00	0.00	4.35	0.43	0.00	0.00
1.80	0.16	0.00	0.00	4.40	0.44	0.00	0.00
1.85	0.17	0.00	0.00	4.45	0.45	0.00	0.00
1.90	0.17	0.00	0.00	4.50	0.45	0.00	0.00
1.95	0.18	0.00	0.00	4.55	0.46	0.00	0.00
2.00	0.18	0.00	0.00	4.60	0.46	0.00	0.00
2.05	0.19	0.00	0.00	4.65	0.47	0.00	0.00
2.10	0.19	0.00	0.00	4.70	0.47	0.00	0.00
2.15	0.20	0.00	0.00	4.75	0.48	0.00	0.00
2.20	0.20	0.00	0.00	4.80	0.49	0.00	0.00
2.25	0.21	0.00	0.00	4.85	0.49	0.00	0.00
2.30	0.21	0.00	0.00	4.90	0.50	0.00	0.00
2.35	0.22	0.00	0.00	4.95	0.50	0.00	0.00
2.40	0.22	0.00	0.00	5.00	0.51	0.00	0.00
2.45	0.23	0.00	0.00	5.05	0.52	0.00	0.00
2.50	0.23	0.00	0.00	5.10	0.52	0.00	0.00
2.55	0.24	0.00	0.00	5.15	0.53	0.00	0.00

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.54	0.00	0.00	7.80	0.92	0.06	0.01
5.25	0.54	0.00	0.00	7.85	0.93	0.06	0.01
5.30	0.55	0.00	0.00	7.90	0.94	0.07	0.01
5.35	0.55	0.00	0.00	7.95	0.95	0.07	0.01
5.40	0.56	0.00	0.00	8.00	0.96	0.07	0.02
5.45	0.57	0.00	0.00	8.05	0.97	0.07	0.02
5.50	0.57	0.00	0.00	8.10	0.98	0.08	0.02
5.55	0.58	0.00	0.00	8.15	0.99	0.08	0.02
5.60	0.59	0.00	0.00	8.20	1.00	0.08	0.02
5.65	0.59	0.00	0.00	8.25	1.01	0.09	0.02
5.70	0.60	0.00	0.00	8.30	1.02	0.09	0.02
5.75	0.60	0.00	0.00	8.35	1.03	0.09	0.02
5.80	0.61	0.00	0.00	8.40	1.04	0.10	0.02
5.85	0.62	0.01	0.00	8.45	1.05	0.10	0.02
5.90	0.62	0.01	0.00	8.50	1.06	0.10	0.02
5.95	0.63	0.01	0.00	8.55	1.07	0.11	0.02
6.00	0.64	0.01	0.00	8.60	1.08	0.11	0.02
6.05	0.64	0.01	0.00	8.65	1.10	0.11	0.02
6.10	0.65	0.01	0.00	8.70	1.11	0.12	0.02
6.15	0.66	0.01	0.00	8.75	1.12	0.12	0.02
6.20	0.66	0.01	0.00	8.80	1.13	0.13	0.02
6.25	0.67	0.01	0.00	8.85	1.14	0.13	0.02
6.30	0.68	0.01	0.00	8.90	1.15	0.13	0.02
6.35	0.68	0.01	0.00	8.95	1.16	0.14	0.02
6.40	0.69	0.01	0.01	9.00	1.17	0.14	0.02
6.45	0.70	0.01	0.01	9.05	1.18	0.15	0.02
6.50	0.71	0.02	0.01	9.10	1.20	0.15	0.03
6.55	0.71	0.02	0.01	9.15	1.21	0.16	0.03
6.60	0.72	0.02	0.01	9.20	1.22	0.16	0.03
6.65	0.73	0.02	0.01	9.25	1.23	0.17	0.03
6.70	0.74	0.02	0.01	9.30	1.25	0.17	0.03
6.75	0.74	0.02	0.01	9.35	1.26	0.18	0.03
6.80	0.75	0.02	0.01	9.40	1.27	0.18	0.03
6.85	0.76	0.02	0.01	9.45	1.29	0.19	0.03
6.90	0.77	0.03	0.01	9.50	1.30	0.20	0.03
6.95	0.78	0.03	0.01	9.55	1.32	0.20	0.03
7.00	0.78	0.03	0.01	9.60	1.33	0.21	0.04
7.05	0.79	0.03	0.01	9.65	1.35	0.22	0.04
7.10	0.80	0.03	0.01	9.70	1.36	0.22	0.04
7.15	0.81	0.03	0.01	9.75	1.38	0.23	0.04
7.20	0.82	0.04	0.01	9.80	1.40	0.24	0.04
7.25	0.83	0.04	0.01	9.85	1.41	0.24	0.04
7.30	0.83	0.04	0.01	9.90	1.43	0.25	0.04
7.35	0.84	0.04	0.01	9.95	1.45	0.26	0.04
7.40	0.85	0.04	0.01	10.00	1.46	0.27	0.05
7.45	0.86	0.05	0.01	10.05	1.48	0.28	0.05
7.50	0.87	0.05	0.01	10.10	1.50	0.29	0.05
7.55	0.88	0.05	0.01	10.15	1.52	0.29	0.05
7.60	0.89	0.05	0.01	10.20	1.54	0.30	0.05
7.65	0.90	0.05	0.01	10.25	1.56	0.31	0.05
7.70	0.91	0.06	0.01	10.30	1.58	0.32	0.05
7.75	0.91	0.06	0.01	10.35	1.59	0.33	0.06

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.61	0.34	0.06	13.00	6.10	3.87	0.19
10.45	1.63	0.35	0.06	13.05	6.13	3.90	0.18
10.50	1.65	0.36	0.06	13.10	6.17	3.93	0.17
10.55	1.68	0.38	0.06	13.15	6.20	3.96	0.16
10.60	1.70	0.39	0.07	13.20	6.23	3.99	0.16
10.65	1.73	0.40	0.07	13.25	6.25	4.01	0.15
10.70	1.75	0.42	0.07	13.30	6.28	4.03	0.14
10.75	1.78	0.43	0.08	13.35	6.30	4.06	0.14
10.80	1.80	0.45	0.08	13.40	6.33	4.08	0.13
10.85	1.83	0.46	0.09	13.45	6.35	4.10	0.13
10.90	1.86	0.48	0.09	13.50	6.38	4.12	0.12
10.95	1.90	0.50	0.10	13.55	6.40	4.14	0.11
11.00	1.93	0.52	0.10	13.60	6.42	4.16	0.11
11.05	1.96	0.54	0.11	13.65	6.44	4.18	0.10
11.10	2.00	0.56	0.12	13.70	6.45	4.19	0.10
11.15	2.04	0.59	0.13	13.75	6.47	4.21	0.10
11.20	2.08	0.61	0.14	13.80	6.49	4.23	0.10
11.25	2.13	0.64	0.15	13.85	6.51	4.25	0.10
11.30	2.17	0.67	0.15	13.90	6.53	4.26	0.10
11.35	2.22	0.70	0.16	13.95	6.55	4.28	0.09
11.40	2.27	0.73	0.17	14.00	6.57	4.30	0.09
11.45	2.32	0.77	0.18	14.05	6.58	4.31	0.09
11.50	2.37	0.80	0.19	14.10	6.60	4.33	0.09
11.55	2.45	0.86	0.24	14.15	6.62	4.34	0.09
11.60	2.54	0.91	0.28	14.20	6.63	4.36	0.09
11.65	2.62	0.97	0.31	14.25	6.65	4.37	0.09
11.70	2.71	1.03	0.33	14.30	6.67	4.39	0.08
11.75	2.82	1.12	0.39	14.35	6.68	4.40	0.08
11.80	2.94	1.21	0.44	14.40	6.70	4.42	0.08
11.85	3.10	1.33	0.54	14.45	6.71	4.43	0.08
11.90	3.27	1.45	0.63	14.50	6.73	4.44	0.08
11.95	3.55	1.67	0.87	14.55	6.74	4.46	0.08
12.00	3.83	1.90	1.10	14.60	6.76	4.47	0.07
12.05	4.30	2.29	1.54	14.65	6.77	4.48	0.07
12.10	4.76	2.69	**1.94**	14.70	6.78	4.49	0.07
12.15	4.93	2.83	**1.61**	14.75	6.80	4.51	0.07
12.20	5.09	2.97	1.15	14.80	6.81	4.52	0.07
12.25	5.21	3.07	0.87	14.85	6.82	4.53	0.07
12.30	5.32	3.18	0.69	14.90	6.83	4.54	0.07
12.35	5.41	3.25	0.57	14.95	6.85	4.55	0.06
12.40	5.49	3.33	0.48	15.00	6.86	4.56	0.06
12.45	5.58	3.40	0.44	15.05	6.87	4.57	0.06
12.50	5.66	3.47	0.42	15.10	6.88	4.58	0.06
12.55	5.71	3.52	0.36	15.15	6.89	4.59	0.06
12.60	5.76	3.57	0.30	15.20	6.90	4.60	0.06
12.65	5.81	3.61	0.28	15.25	6.91	4.61	0.06
12.70	5.86	3.66	0.26	15.30	6.92	4.62	0.06
12.75	5.90	3.70	0.24	15.35	6.93	4.63	0.06
12.80	5.95	3.74	0.23	15.40	6.95	4.64	0.06
12.85	5.99	3.77	0.22	15.45	6.96	4.65	0.06
12.90	6.03	3.81	0.21	15.50	6.97	4.66	0.06
12.95	6.07	3.84	0.20	15.55	6.98	4.67	0.06

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	6.99	4.68	0.05	18.20	7.42	5.08	0.03
15.65	7.00	4.69	0.05	18.25	7.43	5.09	0.03
15.70	7.01	4.70	0.05	18.30	7.43	5.09	0.03
15.75	7.02	4.71	0.05	18.35	7.44	5.10	0.03
15.80	7.03	4.72	0.05	18.40	7.44	5.11	0.03
15.85	7.04	4.73	0.05	18.45	7.45	5.11	0.03
15.90	7.05	4.74	0.05	18.50	7.46	5.12	0.03
15.95	7.06	4.75	0.05	18.55	7.46	5.12	0.03
16.00	7.07	4.76	0.05	18.60	7.47	5.13	0.03
16.05	7.08	4.77	0.05	18.65	7.48	5.14	0.03
16.10	7.09	4.78	0.05	18.70	7.48	5.14	0.03
16.15	7.10	4.78	0.05	18.75	7.49	5.15	0.03
16.20	7.11	4.79	0.05	18.80	7.49	5.15	0.03
16.25	7.12	4.80	0.05	18.85	7.50	5.16	0.03
16.30	7.12	4.81	0.05	18.90	7.51	5.16	0.03
16.35	7.13	4.82	0.05	18.95	7.51	5.17	0.03
16.40	7.14	4.83	0.05	19.00	7.52	5.18	0.03
16.45	7.15	4.84	0.05	19.05	7.53	5.18	0.03
16.50	7.16	4.84	0.05	19.10	7.53	5.19	0.03
16.55	7.17	4.85	0.05	19.15	7.54	5.19	0.03
16.60	7.18	4.86	0.05	19.20	7.54	5.20	0.03
16.65	7.19	4.87	0.05	19.25	7.55	5.20	0.03
16.70	7.20	4.88	0.05	19.30	7.56	5.21	0.03
16.75	7.20	4.88	0.05	19.35	7.56	5.22	0.03
16.80	7.21	4.89	0.04	19.40	7.57	5.22	0.03
16.85	7.22	4.90	0.04	19.45	7.57	5.23	0.03
16.90	7.23	4.91	0.04	19.50	7.58	5.23	0.03
16.95	7.24	4.92	0.04	19.55	7.58	5.24	0.03
17.00	7.25	4.92	0.04	19.60	7.59	5.24	0.03
17.05	7.25	4.93	0.04	19.65	7.60	5.25	0.03
17.10	7.26	4.94	0.04	19.70	7.60	5.25	0.03
17.15	7.27	4.94	0.04	19.75	7.61	5.26	0.03
17.20	7.28	4.95	0.04	19.80	7.61	5.26	0.03
17.25	7.29	4.96	0.04	19.85	7.62	5.27	0.03
17.30	7.29	4.97	0.04	19.90	7.63	5.27	0.03
17.35	7.30	4.97	0.04	19.95	7.63	5.28	0.03
17.40	7.31	4.98	0.04	20.00	7.64	5.29	0.03
17.45	7.32	4.99	0.04	20.05	7.64	5.29	0.03
17.50	7.32	4.99	0.04	20.10	7.65	5.30	0.03
17.55	7.33	5.00	0.04	20.15	7.65	5.30	0.03
17.60	7.34	5.01	0.04	20.20	7.66	5.31	0.03
17.65	7.35	5.01	0.04	20.25	7.67	5.31	0.03
17.70	7.35	5.02	0.04	20.30	7.67	5.32	0.03
17.75	7.36	5.03	0.04	20.35	7.68	5.32	0.03
17.80	7.37	5.03	0.04	20.40	7.68	5.33	0.03
17.85	7.37	5.04	0.04	20.45	7.69	5.33	0.03
17.90	7.38	5.05	0.04	20.50	7.69	5.34	0.03
17.95	7.39	5.05	0.04	20.55	7.70	5.34	0.03
18.00	7.39	5.06	0.04	20.60	7.70	5.35	0.03
18.05	7.40	5.06	0.03	20.65	7.71	5.35	0.03
18.10	7.41	5.07	0.03	20.70	7.71	5.36	0.03
18.15	7.41	5.08	0.03	20.75	7.72	5.36	0.03

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	7.73	5.37	0.03	23.40	7.98	5.60	0.02
20.85	7.73	5.37	0.03	23.45	7.98	5.61	0.02
20.90	7.74	5.38	0.03	23.50	7.99	5.61	0.02
20.95	7.74	5.38	0.03	23.55	7.99	5.62	0.02
21.00	7.75	5.39	0.03	23.60	7.99	5.62	0.02
21.05	7.75	5.39	0.03	23.65	8.00	5.62	0.02
21.10	7.76	5.40	0.03	23.70	8.00	5.63	0.02
21.15	7.76	5.40	0.03	23.75	8.01	5.63	0.02
21.20	7.77	5.41	0.03	23.80	8.01	5.64	0.02
21.25	7.77	5.41	0.03	23.85	8.02	5.64	0.02
21.30	7.78	5.42	0.03	23.90	8.02	5.64	0.02
21.35	7.78	5.42	0.03	23.95	8.02	5.65	0.02
21.40	7.79	5.43	0.03	24.00	**8.03**	**5.65**	0.03
21.45	7.79	5.43	0.03				
21.50	7.80	5.44	0.03				
21.55	7.80	5.44	0.03				
21.60	7.81	5.45	0.03				
21.65	7.81	5.45	0.03				
21.70	7.82	5.46	0.03				
21.75	7.82	5.46	0.03				
21.80	7.83	5.46	0.03				
21.85	7.83	5.47	0.03				
21.90	7.84	5.47	0.03				
21.95	7.84	5.48	0.03				
22.00	7.85	5.48	0.03				
22.05	7.85	5.49	0.03				
22.10	7.86	5.49	0.03				
22.15	7.86	5.50	0.03				
22.20	7.87	5.50	0.03				
22.25	7.87	5.51	0.03				
22.30	7.88	5.51	0.03				
22.35	7.88	5.51	0.03				
22.40	7.89	5.52	0.03				
22.45	7.89	5.52	0.02				
22.50	7.90	5.53	0.02				
22.55	7.90	5.53	0.02				
22.60	7.91	5.54	0.02				
22.65	7.91	5.54	0.02				
22.70	7.91	5.55	0.02				
22.75	7.92	5.55	0.02				
22.80	7.92	5.55	0.02				
22.85	7.93	5.56	0.02				
22.90	7.93	5.56	0.02				
22.95	7.94	5.57	0.02				
23.00	7.94	5.57	0.02				
23.05	7.95	5.58	0.02				
23.10	7.95	5.58	0.02				
23.15	7.96	5.58	0.02				
23.20	7.96	5.59	0.02				
23.25	7.96	5.59	0.02				
23.30	7.97	5.60	0.02				
23.35	7.97	5.60	0.02				

Summary for Subcatchment EDA1B IMP: EDA1B IMP

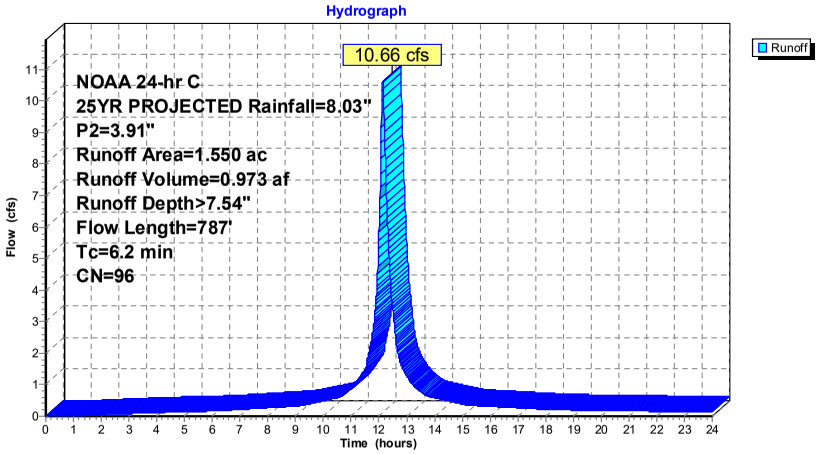
Runoff = 10.66 cfs @ 12.14 hrs, Volume= 0.973 af, Depth> 7.54"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR PROJECTED Rainfall=8.03", P2=3.91"

	Area (ac)	CN	Description
	0.940	96	Gravel surface, HSG A
	0.310	96	Gravel surface, HSG D
*	0.190	98	Impervious vehicular
*	0.110	98	Impervious non vehicular
	1.550	96	Weighted Average
	1.250		80.65% Pervious Area
	0.300		19.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0100	1.15		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
1.0	93	0.0100	1.50		**Shallow Concentrated Flow, Paved** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.9	93	0.0011	1.71	3.02	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
6.2	787	Total			

Subcatchment EDA1B IMP: EDA1B IMP



Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.24	0.04	0.07
0.05	0.01	0.00	0.00	2.65	0.25	0.05	0.07
0.10	0.01	0.00	0.00	2.70	0.25	0.05	0.07
0.15	0.01	0.00	0.00	2.75	0.26	0.05	0.08
0.20	0.02	0.00	0.00	2.80	0.26	0.05	0.08
0.25	0.02	0.00	0.00	2.85	0.27	0.06	0.08
0.30	0.03	0.00	0.00	2.90	0.27	0.06	0.08
0.35	0.03	0.00	0.00	2.95	0.28	0.06	0.08
0.40	0.04	0.00	0.00	3.00	0.28	0.06	0.08
0.45	0.04	0.00	0.00	3.05	0.29	0.07	0.09
0.50	0.04	0.00	0.00	3.10	0.29	0.07	0.09
0.55	0.05	0.00	0.00	3.15	0.30	0.07	0.09
0.60	0.05	0.00	0.00	3.20	0.30	0.08	0.09
0.65	0.06	0.00	0.00	3.25	0.31	0.08	0.09
0.70	0.06	0.00	0.00	3.30	0.32	0.08	0.09
0.75	0.07	0.00	0.00	3.35	0.32	0.09	0.10
0.80	0.07	0.00	0.00	3.40	0.33	0.09	0.10
0.85	0.07	0.00	0.00	3.45	0.33	0.09	0.10
0.90	0.08	0.00	0.00	3.50	0.34	0.10	0.10
0.95	0.08	0.00	0.00	3.55	0.34	0.10	0.10
1.00	0.09	0.00	0.00	3.60	0.35	0.10	0.10
1.05	0.09	0.00	0.00	3.65	0.35	0.11	0.11
1.10	0.10	0.00	0.00	3.70	0.36	0.11	0.11
1.15	0.10	0.00	0.00	3.75	0.36	0.11	0.11
1.20	0.11	0.00	0.01	3.80	0.37	0.12	0.11
1.25	0.11	0.00	0.01	3.85	0.38	0.12	0.11
1.30	0.12	0.00	0.01	3.90	0.38	0.12	0.11
1.35	0.12	0.00	0.01	3.95	0.39	0.13	0.11
1.40	0.12	0.00	0.02	4.00	0.39	0.13	0.11
1.45	0.13	0.00	0.02	4.05	0.40	0.14	0.12
1.50	0.13	0.01	0.02	4.10	0.40	0.14	0.12
1.55	0.14	0.01	0.02	4.15	0.41	0.14	0.12
1.60	0.14	0.01	0.03	4.20	0.42	0.15	0.12
1.65	0.15	0.01	0.03	4.25	0.42	0.15	0.12
1.70	0.15	0.01	0.03	4.30	0.43	0.16	0.12
1.75	0.16	0.01	0.03	4.35	0.43	0.16	0.12
1.80	0.16	0.01	0.04	4.40	0.44	0.16	0.13
1.85	0.17	0.01	0.04	4.45	0.45	0.17	0.13
1.90	0.17	0.02	0.04	4.50	0.45	0.17	0.13
1.95	0.18	0.02	0.04	4.55	0.46	0.18	0.13
2.00	0.18	0.02	0.05	4.60	0.46	0.18	0.13
2.05	0.19	0.02	0.05	4.65	0.47	0.19	0.13
2.10	0.19	0.02	0.05	4.70	0.47	0.19	0.13
2.15	0.20	0.02	0.05	4.75	0.48	0.19	0.13
2.20	0.20	0.03	0.05	4.80	0.49	0.20	0.14
2.25	0.21	0.03	0.06	4.85	0.49	0.20	0.14
2.30	0.21	0.03	0.06	4.90	0.50	0.21	0.14
2.35	0.22	0.03	0.06	4.95	0.50	0.21	0.14
2.40	0.22	0.03	0.06	5.00	0.51	0.22	0.14
2.45	0.23	0.04	0.06	5.05	0.52	0.22	0.14
2.50	0.23	0.04	0.07	5.10	0.52	0.23	0.14
2.55	0.24	0.04	0.07	5.15	0.53	0.23	0.14

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.54	0.24	0.14	7.80	0.92	0.56	0.25
5.25	0.54	0.24	0.15	7.85	0.93	0.57	0.26
5.30	0.55	0.24	0.15	7.90	0.94	0.58	0.26
5.35	0.55	0.25	0.15	7.95	0.95	0.59	0.26
5.40	0.56	0.25	0.15	8.00	0.96	0.60	0.26
5.45	0.57	0.26	0.15	8.05	0.97	0.60	0.27
5.50	0.57	0.26	0.15	8.10	0.98	0.61	0.27
5.55	0.58	0.27	0.15	8.15	0.99	0.62	0.27
5.60	0.59	0.27	0.15	8.20	1.00	0.63	0.28
5.65	0.59	0.28	0.15	8.25	1.01	0.64	0.28
5.70	0.60	0.28	0.16	8.30	1.02	0.65	0.28
5.75	0.60	0.29	0.16	8.35	1.03	0.66	0.28
5.80	0.61	0.29	0.16	8.40	1.04	0.67	0.29
5.85	0.62	0.30	0.16	8.45	1.05	0.68	0.29
5.90	0.62	0.30	0.16	8.50	1.06	0.69	0.29
5.95	0.63	0.31	0.16	8.55	1.07	0.70	0.29
6.00	0.64	0.32	0.16	8.60	1.08	0.71	0.30
6.05	0.64	0.32	0.16	8.65	1.10	0.72	0.30
6.10	0.65	0.33	0.17	8.70	1.11	0.73	0.30
6.15	0.66	0.33	0.17	8.75	1.12	0.74	0.31
6.20	0.66	0.34	0.17	8.80	1.13	0.75	0.31
6.25	0.67	0.34	0.17	8.85	1.14	0.76	0.31
6.30	0.68	0.35	0.17	8.90	1.15	0.77	0.31
6.35	0.68	0.35	0.18	8.95	1.16	0.78	0.32
6.40	0.69	0.36	0.18	9.00	1.17	0.79	0.32
6.45	0.70	0.37	0.18	9.05	1.18	0.80	0.32
6.50	0.71	0.37	0.18	9.10	1.20	0.81	0.33
6.55	0.71	0.38	0.19	9.15	1.21	0.82	0.34
6.60	0.72	0.39	0.19	9.20	1.22	0.83	0.34
6.65	0.73	0.39	0.19	9.25	1.23	0.85	0.35
6.70	0.74	0.40	0.20	9.30	1.25	0.86	0.36
6.75	0.74	0.40	0.20	9.35	1.26	0.87	0.37
6.80	0.75	0.41	0.20	9.40	1.27	0.88	0.38
6.85	0.76	0.42	0.20	9.45	1.29	0.90	0.39
6.90	0.77	0.42	0.21	9.50	1.30	0.91	0.40
6.95	0.78	0.43	0.21	9.55	1.32	0.92	0.41
7.00	0.78	0.44	0.21	9.60	1.33	0.94	0.42
7.05	0.79	0.45	0.21	9.65	1.35	0.95	0.42
7.10	0.80	0.45	0.22	9.70	1.36	0.97	0.43
7.15	0.81	0.46	0.22	9.75	1.38	0.98	0.44
7.20	0.82	0.47	0.22	9.80	1.40	1.00	0.45
7.25	0.83	0.47	0.22	9.85	1.41	1.01	0.46
7.30	0.83	0.48	0.23	9.90	1.43	1.03	0.47
7.35	0.84	0.49	0.23	9.95	1.45	1.04	0.48
7.40	0.85	0.50	0.23	10.00	1.46	1.06	0.49
7.45	0.86	0.51	0.23	10.05	1.48	1.08	0.50
7.50	0.87	0.51	0.24	10.10	1.50	1.09	0.51
7.55	0.88	0.52	0.24	10.15	1.52	1.11	0.52
7.60	0.89	0.53	0.24	10.20	1.54	1.13	0.53
7.65	0.90	0.54	0.25	10.25	1.56	1.15	0.54
7.70	0.91	0.55	0.25	10.30	1.58	1.17	0.55
7.75	0.91	0.55	0.25	10.35	1.59	1.18	0.56

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.61	1.20	0.57	13.00	6.10	5.63	1.28
10.45	1.63	1.22	0.57	13.05	6.13	5.66	1.21
10.50	1.65	1.24	0.59	13.10	6.17	5.69	1.14
10.55	1.68	1.26	0.60	13.15	6.20	5.72	1.08
10.60	1.70	1.29	0.62	13.20	6.23	5.75	1.02
10.65	1.73	1.31	0.65	13.25	6.25	5.78	0.98
10.70	1.75	1.33	0.68	13.30	6.28	5.81	0.93
10.75	1.78	1.36	0.71	13.35	6.30	5.83	0.90
10.80	1.80	1.39	0.74	13.40	6.33	5.86	0.86
10.85	1.83	1.41	0.78	13.45	6.35	5.88	0.82
10.90	1.86	1.44	0.81	13.50	6.38	5.90	0.78
10.95	1.90	1.47	0.85	13.55	6.40	5.92	0.75
11.00	1.93	1.50	0.88	13.60	6.42	5.94	0.71
11.05	1.96	1.54	0.92	13.65	6.44	5.96	0.68
11.10	2.00	1.57	0.98	13.70	6.45	5.98	0.66
11.15	2.04	1.61	1.03	13.75	6.47	6.00	0.64
11.20	2.08	1.65	1.09	13.80	6.49	6.02	0.62
11.25	2.13	1.70	1.15	13.85	6.51	6.04	0.61
11.30	2.17	1.74	1.22	13.90	6.53	6.06	0.60
11.35	2.22	1.79	1.28	13.95	6.55	6.07	0.59
11.40	2.27	1.83	1.35	14.00	6.57	6.09	0.58
11.45	2.32	1.89	1.41	14.05	6.58	6.11	0.57
11.50	2.37	1.94	1.47	14.10	6.60	6.13	0.56
11.55	2.45	2.02	1.59	14.15	6.62	6.14	0.55
11.60	2.54	2.10	1.87	14.20	6.63	6.16	0.54
11.65	2.62	2.18	2.09	14.25	6.65	6.17	0.53
11.70	2.71	2.26	2.27	14.30	6.67	6.19	0.52
11.75	2.82	2.38	2.47	14.35	6.68	6.21	0.51
11.80	2.94	2.49	2.83	14.40	6.70	6.22	0.50
11.85	3.10	2.65	3.22	14.45	6.71	6.24	0.49
11.90	3.27	2.81	3.79	14.50	6.73	6.25	0.48
11.95	3.55	3.09	4.51	14.55	6.74	6.27	0.47
12.00	3.83	3.37	5.83	14.60	6.76	6.28	0.46
12.05	4.30	3.83	7.28	14.65	6.77	6.29	0.46
12.10	4.76	4.30	**9.61**	14.70	6.78	6.31	0.45
12.15	4.93	4.46	**10.60**	14.75	6.80	6.32	0.44
12.20	5.09	4.62	9.04	14.80	6.81	6.33	0.43
12.25	5.21	4.74	7.59	14.85	6.82	6.35	0.42
12.30	5.32	4.85	6.31	14.90	6.83	6.36	0.41
12.35	5.41	4.94	5.33	14.95	6.85	6.37	0.40
12.40	5.49	5.02	4.44	15.00	6.86	6.38	0.39
12.45	5.58	5.11	3.79	15.05	6.87	6.39	0.38
12.50	5.66	5.19	3.31	15.10	6.88	6.40	0.37
12.55	5.71	5.24	2.93	15.15	6.89	6.41	0.36
12.60	5.76	5.29	2.49	15.20	6.90	6.43	0.36
12.65	5.81	5.34	2.17	15.25	6.91	6.44	0.35
12.70	5.86	5.39	1.93	15.30	6.92	6.45	0.35
12.75	5.90	5.43	1.76	15.35	6.93	6.46	0.34
12.80	5.95	5.48	1.63	15.40	6.95	6.47	0.34
12.85	5.99	5.52	1.53	15.45	6.96	6.48	0.34
12.90	6.03	5.56	1.43	15.50	6.97	6.49	0.34
12.95	6.07	5.59	1.35	15.55	6.98	6.50	0.33

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	6.99	6.51	0.33	18.20	7.42	6.94	0.20
15.65	7.00	6.52	0.33	18.25	7.43	6.95	0.20
15.70	7.01	6.53	0.33	18.30	7.43	6.95	0.20
15.75	7.02	6.54	0.32	18.35	7.44	6.96	0.20
15.80	7.03	6.55	0.32	18.40	7.44	6.97	0.20
15.85	7.04	6.56	0.32	18.45	7.45	6.97	0.20
15.90	7.05	6.57	0.32	18.50	7.46	6.98	0.20
15.95	7.06	6.58	0.31	18.55	7.46	6.99	0.20
16.00	7.07	6.59	0.31	18.60	7.47	6.99	0.20
16.05	7.08	6.60	0.31	18.65	7.48	7.00	0.20
16.10	7.09	6.61	0.31	18.70	7.48	7.00	0.20
16.15	7.10	6.62	0.30	18.75	7.49	7.01	0.19
16.20	7.11	6.63	0.30	18.80	7.49	7.02	0.19
16.25	7.12	6.64	0.30	18.85	7.50	7.02	0.19
16.30	7.12	6.65	0.30	18.90	7.51	7.03	0.19
16.35	7.13	6.66	0.29	18.95	7.51	7.04	0.19
16.40	7.14	6.67	0.29	19.00	7.52	7.04	0.19
16.45	7.15	6.68	0.29	19.05	7.53	7.05	0.19
16.50	7.16	6.68	0.29	19.10	7.53	7.05	0.19
16.55	7.17	6.69	0.28	19.15	7.54	7.06	0.19
16.60	7.18	6.70	0.28	19.20	7.54	7.07	0.19
16.65	7.19	6.71	0.28	19.25	7.55	7.07	0.19
16.70	7.20	6.72	0.28	19.30	7.56	7.08	0.19
16.75	7.20	6.73	0.27	19.35	7.56	7.08	0.19
16.80	7.21	6.74	0.27	19.40	7.57	7.09	0.19
16.85	7.22	6.74	0.27	19.45	7.57	7.10	0.19
16.90	7.23	6.75	0.27	19.50	7.58	7.10	0.19
16.95	7.24	6.76	0.26	19.55	7.58	7.11	0.18
17.00	7.25	6.77	0.26	19.60	7.59	7.11	0.18
17.05	7.25	6.78	0.26	19.65	7.60	7.12	0.18
17.10	7.26	6.79	0.26	19.70	7.60	7.12	0.18
17.15	7.27	6.79	0.25	19.75	7.61	7.13	0.18
17.20	7.28	6.80	0.25	19.80	7.61	7.14	0.18
17.25	7.29	6.81	0.25	19.85	7.62	7.14	0.18
17.30	7.29	6.82	0.25	19.90	7.63	7.15	0.18
17.35	7.30	6.82	0.24	19.95	7.63	7.15	0.18
17.40	7.31	6.83	0.24	20.00	7.64	7.16	0.18
17.45	7.32	6.84	0.24	20.05	7.64	7.16	0.18
17.50	7.32	6.85	0.24	20.10	7.65	7.17	0.18
17.55	7.33	6.85	0.23	20.15	7.65	7.18	0.18
17.60	7.34	6.86	0.23	20.20	7.66	7.18	0.18
17.65	7.35	6.87	0.23	20.25	7.67	7.19	0.18
17.70	7.35	6.88	0.23	20.30	7.67	7.19	0.18
17.75	7.36	6.88	0.22	20.35	7.68	7.20	0.17
17.80	7.37	6.89	0.22	20.40	7.68	7.20	0.17
17.85	7.37	6.90	0.22	20.45	7.69	7.21	0.17
17.90	7.38	6.90	0.22	20.50	7.69	7.21	0.17
17.95	7.39	6.91	0.21	20.55	7.70	7.22	0.17
18.00	7.39	6.92	0.21	20.60	7.70	7.23	0.17
18.05	7.40	6.92	0.21	20.65	7.71	7.23	0.17
18.10	7.41	6.93	0.21	20.70	7.71	7.24	0.17
18.15	7.41	6.94	0.20	20.75	7.72	7.24	0.17

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	7.73	7.25	0.17	23.40	7.98	7.50	0.14
20.85	7.73	7.25	0.17	23.45	7.98	7.50	0.14
20.90	7.74	7.26	0.17	23.50	7.99	7.51	0.14
20.95	7.74	7.26	0.17	23.55	7.99	7.51	0.14
21.00	7.75	7.27	0.17	23.60	7.99	7.52	0.13
21.05	7.75	7.27	0.17	23.65	8.00	7.52	0.13
21.10	7.76	7.28	0.17	23.70	8.00	7.52	0.13
21.15	7.76	7.28	0.16	23.75	8.01	7.53	0.13
21.20	7.77	7.29	0.16	23.80	8.01	7.53	0.13
21.25	7.77	7.29	0.16	23.85	8.02	7.54	0.13
21.30	7.78	7.30	0.16	23.90	8.02	7.54	0.13
21.35	7.78	7.30	0.16	23.95	8.02	7.55	0.13
21.40	7.79	7.31	0.16	24.00	**8.03**	**7.55**	0.14
21.45	7.79	7.31	0.16				
21.50	7.80	7.32	0.16				
21.55	7.80	7.32	0.16				
21.60	7.81	7.33	0.16				
21.65	7.81	7.34	0.16				
21.70	7.82	7.34	0.16				
21.75	7.82	7.35	0.16				
21.80	7.83	7.35	0.16				
21.85	7.83	7.35	0.16				
21.90	7.84	7.36	0.16				
21.95	7.84	7.36	0.16				
22.00	7.85	7.37	0.15				
22.05	7.85	7.37	0.15				
22.10	7.86	7.38	0.15				
22.15	7.86	7.38	0.15				
22.20	7.87	7.39	0.15				
22.25	7.87	7.39	0.15				
22.30	7.88	7.40	0.15				
22.35	7.88	7.40	0.15				
22.40	7.89	7.41	0.15				
22.45	7.89	7.41	0.15				
22.50	7.90	7.42	0.15				
22.55	7.90	7.42	0.15				
22.60	7.91	7.43	0.15				
22.65	7.91	7.43	0.15				
22.70	7.91	7.44	0.15				
22.75	7.92	7.44	0.15				
22.80	7.92	7.45	0.14				
22.85	7.93	7.45	0.14				
22.90	7.93	7.45	0.14				
22.95	7.94	7.46	0.14				
23.00	7.94	7.46	0.14				
23.05	7.95	7.47	0.14				
23.10	7.95	7.47	0.14				
23.15	7.96	7.48	0.14				
23.20	7.96	7.48	0.14				
23.25	7.96	7.49	0.14				
23.30	7.97	7.49	0.14				
23.35	7.97	7.49	0.14				

Summary for Subcatchment EDA2 IMP: EDA2 IMP

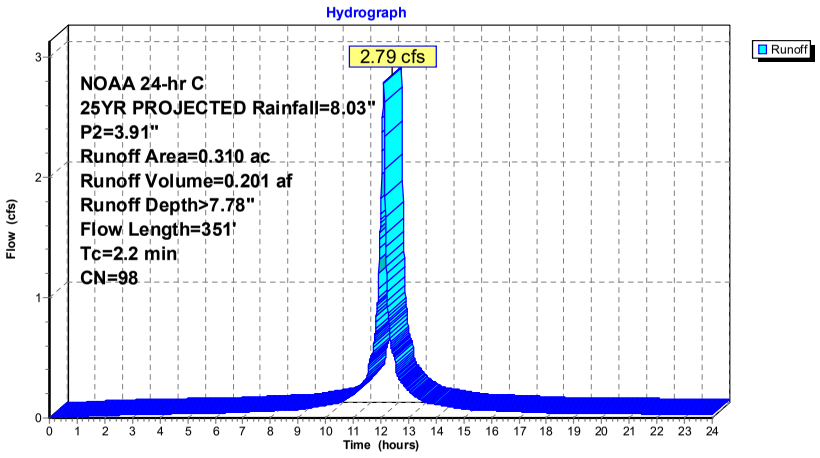
Runoff = 2.79 cfs @ 12.11 hrs, Volume= 0.201 af, Depth> 7.78"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR PROJECTED Rainfall=8.03", P2=3.91"

	Area (ac)	CN	Description
*	0.310	98	Impervious vehicular
	0.310		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	100	0.0180	1.46		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
1.1	251	0.0360	3.85		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
2.2	351	Total			

Subcatchment EDA2 IMP: EDA2 IMP



Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.24	0.10	0.02
0.05	0.01	0.00	0.00	2.65	0.25	0.10	0.02
0.10	0.01	0.00	0.00	2.70	0.25	0.11	0.02
0.15	0.01	0.00	0.00	2.75	0.26	0.11	0.02
0.20	0.02	0.00	0.00	2.80	0.26	0.12	0.02
0.25	0.02	0.00	0.00	2.85	0.27	0.12	0.03
0.30	0.03	0.00	0.00	2.90	0.27	0.12	0.03
0.35	0.03	0.00	0.00	2.95	0.28	0.13	0.03
0.40	0.04	0.00	0.00	3.00	0.28	0.13	0.03
0.45	0.04	0.00	0.00	3.05	0.29	0.14	0.03
0.50	0.04	0.00	0.00	3.10	0.29	0.14	0.03
0.55	0.05	0.00	0.00	3.15	0.30	0.14	0.03
0.60	0.05	0.00	0.00	3.20	0.30	0.15	0.03
0.65	0.06	0.00	0.00	3.25	0.31	0.15	0.03
0.70	0.06	0.00	0.00	3.30	0.32	0.16	0.03
0.75	0.07	0.00	0.00	3.35	0.32	0.16	0.03
0.80	0.07	0.00	0.01	3.40	0.33	0.17	0.03
0.85	0.07	0.00	0.01	3.45	0.33	0.17	0.03
0.90	0.08	0.01	0.01	3.50	0.34	0.18	0.03
0.95	0.08	0.01	0.01	3.55	0.34	0.18	0.03
1.00	0.09	0.01	0.01	3.60	0.35	0.18	0.03
1.05	0.09	0.01	0.01	3.65	0.35	0.19	0.03
1.10	0.10	0.01	0.01	3.70	0.36	0.19	0.03
1.15	0.10	0.01	0.01	3.75	0.36	0.20	0.03
1.20	0.11	0.02	0.01	3.80	0.37	0.20	0.03
1.25	0.11	0.02	0.01	3.85	0.38	0.21	0.03
1.30	0.12	0.02	0.01	3.90	0.38	0.21	0.03
1.35	0.12	0.02	0.01	3.95	0.39	0.22	0.03
1.40	0.12	0.02	0.01	4.00	0.39	0.22	0.03
1.45	0.13	0.03	0.01	4.05	0.40	0.23	0.03
1.50	0.13	0.03	0.01	4.10	0.40	0.23	0.03
1.55	0.14	0.03	0.02	4.15	0.41	0.24	0.03
1.60	0.14	0.03	0.02	4.20	0.42	0.24	0.03
1.65	0.15	0.04	0.02	4.25	0.42	0.25	0.03
1.70	0.15	0.04	0.02	4.30	0.43	0.25	0.03
1.75	0.16	0.04	0.02	4.35	0.43	0.26	0.03
1.80	0.16	0.05	0.02	4.40	0.44	0.26	0.03
1.85	0.17	0.05	0.02	4.45	0.45	0.27	0.03
1.90	0.17	0.05	0.02	4.50	0.45	0.27	0.03
1.95	0.18	0.05	0.02	4.55	0.46	0.28	0.03
2.00	0.18	0.06	0.02	4.60	0.46	0.28	0.03
2.05	0.19	0.06	0.02	4.65	0.47	0.29	0.03
2.10	0.19	0.06	0.02	4.70	0.47	0.29	0.03
2.15	0.20	0.07	0.02	4.75	0.48	0.30	0.03
2.20	0.20	0.07	0.02	4.80	0.49	0.31	0.03
2.25	0.21	0.07	0.02	4.85	0.49	0.31	0.03
2.30	0.21	0.08	0.02	4.90	0.50	0.32	0.03
2.35	0.22	0.08	0.02	4.95	0.50	0.32	0.03
2.40	0.22	0.08	0.02	5.00	0.51	0.33	0.03
2.45	0.23	0.09	0.02	5.05	0.52	0.33	0.03
2.50	0.23	0.09	0.02	5.10	0.52	0.34	0.03
2.55	0.24	0.10	0.02	5.15	0.53	0.34	0.03

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.54	0.35	0.04	7.80	0.92	0.72	0.06
5.25	0.54	0.36	0.04	7.85	0.93	0.73	0.06
5.30	0.55	0.36	0.04	7.90	0.94	0.74	0.06
5.35	0.55	0.37	0.04	7.95	0.95	0.74	0.06
5.40	0.56	0.37	0.04	8.00	0.96	0.75	0.06
5.45	0.57	0.38	0.04	8.05	0.97	0.76	0.06
5.50	0.57	0.38	0.04	8.10	0.98	0.77	0.06
5.55	0.58	0.39	0.04	8.15	0.99	0.78	0.06
5.60	0.59	0.40	0.04	8.20	1.00	0.79	0.06
5.65	0.59	0.40	0.04	8.25	1.01	0.80	0.06
5.70	0.60	0.41	0.04	8.30	1.02	0.81	0.06
5.75	0.60	0.41	0.04	8.35	1.03	0.82	0.06
5.80	0.61	0.42	0.04	8.40	1.04	0.83	0.06
5.85	0.62	0.43	0.04	8.45	1.05	0.84	0.06
5.90	0.62	0.43	0.04	8.50	1.06	0.85	0.06
5.95	0.63	0.44	0.04	8.55	1.07	0.86	0.06
6.00	0.64	0.44	0.04	8.60	1.08	0.87	0.06
6.05	0.64	0.45	0.04	8.65	1.10	0.88	0.07
6.10	0.65	0.46	0.04	8.70	1.11	0.89	0.07
6.15	0.66	0.46	0.04	8.75	1.12	0.90	0.07
6.20	0.66	0.47	0.04	8.80	1.13	0.92	0.07
6.25	0.67	0.48	0.04	8.85	1.14	0.93	0.07
6.30	0.68	0.48	0.04	8.90	1.15	0.94	0.07
6.35	0.68	0.49	0.04	8.95	1.16	0.95	0.07
6.40	0.69	0.50	0.04	9.00	1.17	0.96	0.07
6.45	0.70	0.50	0.04	9.05	1.18	0.97	0.07
6.50	0.71	0.51	0.04	9.10	1.20	0.98	0.07
6.55	0.71	0.52	0.04	9.15	1.21	0.99	0.07
6.60	0.72	0.52	0.04	9.20	1.22	1.01	0.08
6.65	0.73	0.53	0.04	9.25	1.23	1.02	0.08
6.70	0.74	0.54	0.04	9.30	1.25	1.03	0.08
6.75	0.74	0.54	0.05	9.35	1.26	1.05	0.08
6.80	0.75	0.55	0.05	9.40	1.27	1.06	0.08
6.85	0.76	0.56	0.05	9.45	1.29	1.07	0.09
6.90	0.77	0.57	0.05	9.50	1.30	1.09	0.09
6.95	0.78	0.57	0.05	9.55	1.32	1.10	0.09
7.00	0.78	0.58	0.05	9.60	1.33	1.12	0.09
7.05	0.79	0.59	0.05	9.65	1.35	1.13	0.09
7.10	0.80	0.60	0.05	9.70	1.36	1.15	0.09
7.15	0.81	0.61	0.05	9.75	1.38	1.16	0.10
7.20	0.82	0.61	0.05	9.80	1.40	1.18	0.10
7.25	0.83	0.62	0.05	9.85	1.41	1.19	0.10
7.30	0.83	0.63	0.05	9.90	1.43	1.21	0.10
7.35	0.84	0.64	0.05	9.95	1.45	1.23	0.10
7.40	0.85	0.65	0.05	10.00	1.46	1.24	0.11
7.45	0.86	0.66	0.05	10.05	1.48	1.26	0.11
7.50	0.87	0.66	0.05	10.10	1.50	1.28	0.11
7.55	0.88	0.67	0.05	10.15	1.52	1.30	0.11
7.60	0.89	0.68	0.05	10.20	1.54	1.32	0.11
7.65	0.90	0.69	0.05	10.25	1.56	1.34	0.12
7.70	0.91	0.70	0.06	10.30	1.58	1.35	0.12
7.75	0.91	0.71	0.06	10.35	1.59	1.37	0.12

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.61	1.39	0.12	13.00	6.10	5.86	0.23
10.45	1.63	1.41	0.12	13.05	6.13	5.90	0.21
10.50	1.65	1.43	0.12	13.10	6.17	5.93	0.20
10.55	1.68	1.46	0.13	13.15	6.20	5.96	0.19
10.60	1.70	1.48	0.14	13.20	6.23	5.99	0.19
10.65	1.73	1.50	0.15	13.25	6.25	6.01	0.18
10.70	1.75	1.53	0.15	13.30	6.28	6.04	0.17
10.75	1.78	1.55	0.16	13.35	6.30	6.07	0.16
10.80	1.80	1.58	0.17	13.40	6.33	6.09	0.16
10.85	1.83	1.61	0.18	13.45	6.35	6.11	0.15
10.90	1.86	1.64	0.18	13.50	6.38	6.14	0.14
10.95	1.90	1.67	0.19	13.55	6.40	6.16	0.13
11.00	1.93	1.70	0.20	13.60	6.42	6.18	0.13
11.05	1.96	1.74	0.21	13.65	6.44	6.20	0.13
11.10	2.00	1.77	0.22	13.70	6.45	6.22	0.12
11.15	2.04	1.81	0.24	13.75	6.47	6.24	0.12
11.20	2.08	1.85	0.25	13.80	6.49	6.25	0.12
11.25	2.13	1.90	0.26	13.85	6.51	6.27	0.12
11.30	2.17	1.94	0.27	13.90	6.53	6.29	0.12
11.35	2.22	1.99	0.29	13.95	6.55	6.31	0.11
11.40	2.27	2.04	0.30	14.00	6.57	6.33	0.11
11.45	2.32	2.09	0.32	14.05	6.58	6.34	0.11
11.50	2.37	2.14	0.32	14.10	6.60	6.36	0.11
11.55	2.45	2.23	0.42	14.15	6.62	6.38	0.11
11.60	2.54	2.31	0.48	14.20	6.63	6.40	0.10
11.65	2.62	2.39	0.51	14.25	6.65	6.41	0.10
11.70	2.71	2.48	0.53	14.30	6.67	6.43	0.10
11.75	2.82	2.59	0.64	14.35	6.68	6.44	0.10
11.80	2.94	2.71	0.70	14.40	6.70	6.46	0.10
11.85	3.10	2.87	0.88	14.45	6.71	6.47	0.09
11.90	3.27	3.03	0.97	14.50	6.73	6.49	0.09
11.95	3.55	3.31	1.41	14.55	6.74	6.50	0.09
12.00	3.83	3.59	1.65	14.60	6.76	6.52	0.09
12.05	4.30	4.06	2.37	14.65	6.77	6.53	0.09
12.10	4.76	4.53	**2.77**	14.70	6.78	6.54	0.09
12.15	4.93	4.69	**1.84**	14.75	6.80	6.56	0.08
12.20	5.09	4.85	1.26	14.80	6.81	6.57	0.08
12.25	5.21	4.97	0.91	14.85	6.82	6.58	0.08
12.30	5.32	5.09	0.78	14.90	6.83	6.59	0.08
12.35	5.41	5.17	0.63	14.95	6.85	6.61	0.08
12.40	5.49	5.26	0.56	15.00	6.86	6.62	0.07
12.45	5.58	5.34	0.52	15.05	6.87	6.63	0.07
12.50	5.66	5.42	0.51	15.10	6.88	6.64	0.07
12.55	5.71	5.47	0.41	15.15	6.89	6.65	0.07
12.60	5.76	5.52	0.35	15.20	6.90	6.66	0.07
12.65	5.81	5.57	0.32	15.25	6.91	6.67	0.07
12.70	5.86	5.62	0.31	15.30	6.92	6.68	0.07
12.75	5.90	5.67	0.29	15.35	6.93	6.70	0.07
12.80	5.95	5.71	0.28	15.40	6.95	6.71	0.07
12.85	5.99	5.75	0.27	15.45	6.96	6.72	0.07
12.90	6.03	5.79	0.26	15.50	6.97	6.73	0.07
12.95	6.07	5.83	0.24	15.55	6.98	6.74	0.07

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	6.99	6.75	0.07	18.20	7.42	7.18	0.04
15.65	7.00	6.76	0.06	18.25	7.43	7.19	0.04
15.70	7.01	6.77	0.06	18.30	7.43	7.19	0.04
15.75	7.02	6.78	0.06	18.35	7.44	7.20	0.04
15.80	7.03	6.79	0.06	18.40	7.44	7.21	0.04
15.85	7.04	6.80	0.06	18.45	7.45	7.21	0.04
15.90	7.05	6.81	0.06	18.50	7.46	7.22	0.04
15.95	7.06	6.82	0.06	18.55	7.46	7.22	0.04
16.00	7.07	6.83	0.06	18.60	7.47	7.23	0.04
16.05	7.08	6.84	0.06	18.65	7.48	7.24	0.04
16.10	7.09	6.85	0.06	18.70	7.48	7.24	0.04
16.15	7.10	6.86	0.06	18.75	7.49	7.25	0.04
16.20	7.11	6.87	0.06	18.80	7.49	7.26	0.04
16.25	7.12	6.88	0.06	18.85	7.50	7.26	0.04
16.30	7.12	6.89	0.06	18.90	7.51	7.27	0.04
16.35	7.13	6.89	0.06	18.95	7.51	7.27	0.04
16.40	7.14	6.90	0.06	19.00	7.52	7.28	0.04
16.45	7.15	6.91	0.06	19.05	7.53	7.29	0.04
16.50	7.16	6.92	0.06	19.10	7.53	7.29	0.04
16.55	7.17	6.93	0.06	19.15	7.54	7.30	0.04
16.60	7.18	6.94	0.06	19.20	7.54	7.30	0.04
16.65	7.19	6.95	0.05	19.25	7.55	7.31	0.04
16.70	7.20	6.96	0.05	19.30	7.56	7.32	0.04
16.75	7.20	6.97	0.05	19.35	7.56	7.32	0.04
16.80	7.21	6.97	0.05	19.40	7.57	7.33	0.04
16.85	7.22	6.98	0.05	19.45	7.57	7.33	0.04
16.90	7.23	6.99	0.05	19.50	7.58	7.34	0.04
16.95	7.24	7.00	0.05	19.55	7.58	7.35	0.04
17.00	7.25	7.01	0.05	19.60	7.59	7.35	0.04
17.05	7.25	7.02	0.05	19.65	7.60	7.36	0.04
17.10	7.26	7.02	0.05	19.70	7.60	7.36	0.04
17.15	7.27	7.03	0.05	19.75	7.61	7.37	0.04
17.20	7.28	7.04	0.05	19.80	7.61	7.37	0.04
17.25	7.29	7.05	0.05	19.85	7.62	7.38	0.04
17.30	7.29	7.05	0.05	19.90	7.63	7.39	0.04
17.35	7.30	7.06	0.05	19.95	7.63	7.39	0.04
17.40	7.31	7.07	0.05	20.00	7.64	7.40	0.04
17.45	7.32	7.08	0.05	20.05	7.64	7.40	0.04
17.50	7.32	7.08	0.05	20.10	7.65	7.41	0.04
17.55	7.33	7.09	0.05	20.15	7.65	7.41	0.04
17.60	7.34	7.10	0.05	20.20	7.66	7.42	0.04
17.65	7.35	7.11	0.04	20.25	7.67	7.43	0.03
17.70	7.35	7.11	0.04	20.30	7.67	7.43	0.03
17.75	7.36	7.12	0.04	20.35	7.68	7.44	0.03
17.80	7.37	7.13	0.04	20.40	7.68	7.44	0.03
17.85	7.37	7.13	0.04	20.45	7.69	7.45	0.03
17.90	7.38	7.14	0.04	20.50	7.69	7.45	0.03
17.95	7.39	7.15	0.04	20.55	7.70	7.46	0.03
18.00	7.39	7.15	0.04	20.60	7.70	7.46	0.03
18.05	7.40	7.16	0.04	20.65	7.71	7.47	0.03
18.10	7.41	7.17	0.04	20.70	7.71	7.48	0.03
18.15	7.41	7.17	0.04	20.75	7.72	7.48	0.03

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	7.73	7.49	0.03	23.40	7.98	7.74	0.03
20.85	7.73	7.49	0.03	23.45	7.98	7.74	0.03
20.90	7.74	7.50	0.03	23.50	7.99	7.75	0.03
20.95	7.74	7.50	0.03	23.55	7.99	7.75	0.03
21.00	7.75	7.51	0.03	23.60	7.99	7.75	0.03
21.05	7.75	7.51	0.03	23.65	8.00	7.76	0.03
21.10	7.76	7.52	0.03	23.70	8.00	7.76	0.03
21.15	7.76	7.52	0.03	23.75	8.01	7.77	0.03
21.20	7.77	7.53	0.03	23.80	8.01	7.77	0.03
21.25	7.77	7.53	0.03	23.85	8.02	7.78	0.03
21.30	7.78	7.54	0.03	23.90	8.02	7.78	0.03
21.35	7.78	7.54	0.03	23.95	8.02	7.79	0.03
21.40	7.79	7.55	0.03	24.00	**8.03**	**7.79**	0.03
21.45	7.79	7.55	0.03				
21.50	7.80	7.56	0.03				
21.55	7.80	7.56	0.03				
21.60	7.81	7.57	0.03				
21.65	7.81	7.57	0.03				
21.70	7.82	7.58	0.03				
21.75	7.82	7.58	0.03				
21.80	7.83	7.59	0.03				
21.85	7.83	7.59	0.03				
21.90	7.84	7.60	0.03				
21.95	7.84	7.60	0.03				
22.00	7.85	7.61	0.03				
22.05	7.85	7.61	0.03				
22.10	7.86	7.62	0.03				
22.15	7.86	7.62	0.03				
22.20	7.87	7.63	0.03				
22.25	7.87	7.63	0.03				
22.30	7.88	7.64	0.03				
22.35	7.88	7.64	0.03				
22.40	7.89	7.65	0.03				
22.45	7.89	7.65	0.03				
22.50	7.90	7.66	0.03				
22.55	7.90	7.66	0.03				
22.60	7.91	7.67	0.03				
22.65	7.91	7.67	0.03				
22.70	7.91	7.68	0.03				
22.75	7.92	7.68	0.03				
22.80	7.92	7.68	0.03				
22.85	7.93	7.69	0.03				
22.90	7.93	7.69	0.03				
22.95	7.94	7.70	0.03				
23.00	7.94	7.70	0.03				
23.05	7.95	7.71	0.03				
23.10	7.95	7.71	0.03				
23.15	7.96	7.72	0.03				
23.20	7.96	7.72	0.03				
23.25	7.96	7.72	0.03				
23.30	7.97	7.73	0.03				
23.35	7.97	7.73	0.03				

Summary for Subcatchment EDA3 IMP: EDA3 IMP

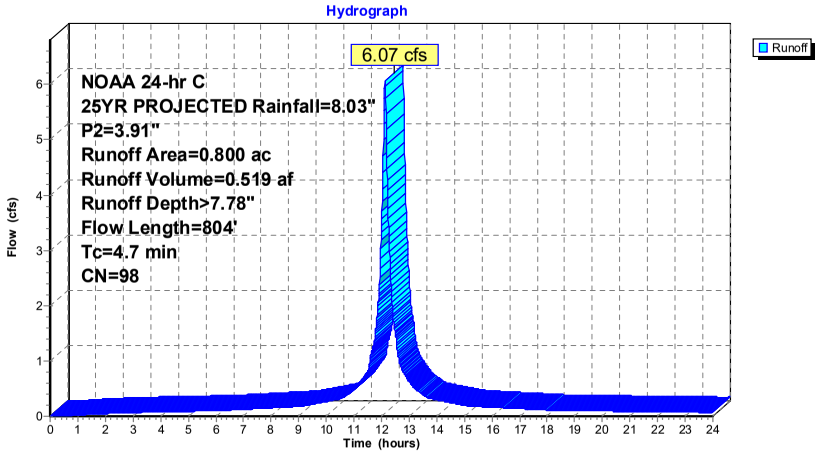
Runoff = 6.07 cfs @ 12.13 hrs, Volume= 0.519 af, Depth> 7.78"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR PROJECTED Rainfall=8.03", P2=3.91"

	Area (ac)	CN	Description
*	0.750	98	Impervious vehicular
*	0.050	98	Impervious non vehicular
	0.800	98	Weighted Average
	0.800		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	100	0.0071	1.00		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.7	172	0.0039	3.90	12.24	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
0.1	27	0.0120	6.84	21.48	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
1.6	439	0.0015	4.45	87.42	**Pipe Channel, RCP_Round 60"** 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.015
4.7	804	Total			

Subcatchment EDA3 IMP: EDA3 IMP



Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.24	0.10	0.06
0.05	0.01	0.00	0.00	2.65	0.25	0.10	0.06
0.10	0.01	0.00	0.00	2.70	0.25	0.11	0.06
0.15	0.01	0.00	0.00	2.75	0.26	0.11	0.06
0.20	0.02	0.00	0.00	2.80	0.26	0.12	0.06
0.25	0.02	0.00	0.00	2.85	0.27	0.12	0.06
0.30	0.03	0.00	0.00	2.90	0.27	0.12	0.06
0.35	0.03	0.00	0.00	2.95	0.28	0.13	0.07
0.40	0.04	0.00	0.00	3.00	0.28	0.13	0.07
0.45	0.04	0.00	0.00	3.05	0.29	0.14	0.07
0.50	0.04	0.00	0.00	3.10	0.29	0.14	0.07
0.55	0.05	0.00	0.00	3.15	0.30	0.14	0.07
0.60	0.05	0.00	0.00	3.20	0.30	0.15	0.07
0.65	0.06	0.00	0.00	3.25	0.31	0.15	0.07
0.70	0.06	0.00	0.01	3.30	0.32	0.16	0.07
0.75	0.07	0.00	0.01	3.35	0.32	0.16	0.07
0.80	0.07	0.00	0.01	3.40	0.33	0.17	0.07
0.85	0.07	0.00	0.01	3.45	0.33	0.17	0.07
0.90	0.08	0.01	0.02	3.50	0.34	0.18	0.07
0.95	0.08	0.01	0.02	3.55	0.34	0.18	0.07
1.00	0.09	0.01	0.02	3.60	0.35	0.18	0.07
1.05	0.09	0.01	0.02	3.65	0.35	0.19	0.07
1.10	0.10	0.01	0.02	3.70	0.36	0.19	0.07
1.15	0.10	0.01	0.03	3.75	0.36	0.20	0.08
1.20	0.11	0.02	0.03	3.80	0.37	0.20	0.08
1.25	0.11	0.02	0.03	3.85	0.38	0.21	0.08
1.30	0.12	0.02	0.03	3.90	0.38	0.21	0.08
1.35	0.12	0.02	0.03	3.95	0.39	0.22	0.08
1.40	0.12	0.02	0.03	4.00	0.39	0.22	0.08
1.45	0.13	0.03	0.04	4.05	0.40	0.23	0.08
1.50	0.13	0.03	0.04	4.10	0.40	0.23	0.08
1.55	0.14	0.03	0.04	4.15	0.41	0.24	0.08
1.60	0.14	0.03	0.04	4.20	0.42	0.24	0.08
1.65	0.15	0.04	0.04	4.25	0.42	0.25	0.08
1.70	0.15	0.04	0.04	4.30	0.43	0.25	0.08
1.75	0.16	0.04	0.04	4.35	0.43	0.26	0.08
1.80	0.16	0.05	0.04	4.40	0.44	0.26	0.08
1.85	0.17	0.05	0.05	4.45	0.45	0.27	0.08
1.90	0.17	0.05	0.05	4.50	0.45	0.27	0.08
1.95	0.18	0.05	0.05	4.55	0.46	0.28	0.08
2.00	0.18	0.06	0.05	4.60	0.46	0.28	0.08
2.05	0.19	0.06	0.05	4.65	0.47	0.29	0.08
2.10	0.19	0.06	0.05	4.70	0.47	0.29	0.09
2.15	0.20	0.07	0.05	4.75	0.48	0.30	0.09
2.20	0.20	0.07	0.05	4.80	0.49	0.31	0.09
2.25	0.21	0.07	0.05	4.85	0.49	0.31	0.09
2.30	0.21	0.08	0.05	4.90	0.50	0.32	0.09
2.35	0.22	0.08	0.06	4.95	0.50	0.32	0.09
2.40	0.22	0.08	0.06	5.00	0.51	0.33	0.09
2.45	0.23	0.09	0.06	5.05	0.52	0.33	0.09
2.50	0.23	0.09	0.06	5.10	0.52	0.34	0.09
2.55	0.24	0.10	0.06	5.15	0.53	0.34	0.09

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.54	0.35	0.09	7.80	0.92	0.72	0.14
5.25	0.54	0.36	0.09	7.85	0.93	0.73	0.14
5.30	0.55	0.36	0.09	7.90	0.94	0.74	0.15
5.35	0.55	0.37	0.09	7.95	0.95	0.74	0.15
5.40	0.56	0.37	0.09	8.00	0.96	0.75	0.15
5.45	0.57	0.38	0.09	8.05	0.97	0.76	0.15
5.50	0.57	0.38	0.09	8.10	0.98	0.77	0.15
5.55	0.58	0.39	0.09	8.15	0.99	0.78	0.15
5.60	0.59	0.40	0.09	8.20	1.00	0.79	0.15
5.65	0.59	0.40	0.09	8.25	1.01	0.80	0.16
5.70	0.60	0.41	0.09	8.30	1.02	0.81	0.16
5.75	0.60	0.41	0.09	8.35	1.03	0.82	0.16
5.80	0.61	0.42	0.10	8.40	1.04	0.83	0.16
5.85	0.62	0.43	0.10	8.45	1.05	0.84	0.16
5.90	0.62	0.43	0.10	8.50	1.06	0.85	0.16
5.95	0.63	0.44	0.10	8.55	1.07	0.86	0.16
6.00	0.64	0.44	0.10	8.60	1.08	0.87	0.16
6.05	0.64	0.45	0.10	8.65	1.10	0.88	0.17
6.10	0.65	0.46	0.10	8.70	1.11	0.89	0.17
6.15	0.66	0.46	0.10	8.75	1.12	0.90	0.17
6.20	0.66	0.47	0.10	8.80	1.13	0.92	0.17
6.25	0.67	0.48	0.10	8.85	1.14	0.93	0.17
6.30	0.68	0.48	0.10	8.90	1.15	0.94	0.17
6.35	0.68	0.49	0.10	8.95	1.16	0.95	0.17
6.40	0.69	0.50	0.11	9.00	1.17	0.96	0.18
6.45	0.70	0.50	0.11	9.05	1.18	0.97	0.18
6.50	0.71	0.51	0.11	9.10	1.20	0.98	0.18
6.55	0.71	0.52	0.11	9.15	1.21	0.99	0.19
6.60	0.72	0.52	0.11	9.20	1.22	1.01	0.19
6.65	0.73	0.53	0.11	9.25	1.23	1.02	0.19
6.70	0.74	0.54	0.11	9.30	1.25	1.03	0.20
6.75	0.74	0.54	0.12	9.35	1.26	1.05	0.20
6.80	0.75	0.55	0.12	9.40	1.27	1.06	0.21
6.85	0.76	0.56	0.12	9.45	1.29	1.07	0.21
6.90	0.77	0.57	0.12	9.50	1.30	1.09	0.22
6.95	0.78	0.57	0.12	9.55	1.32	1.10	0.22
7.00	0.78	0.58	0.12	9.60	1.33	1.12	0.23
7.05	0.79	0.59	0.12	9.65	1.35	1.13	0.23
7.10	0.80	0.60	0.12	9.70	1.36	1.15	0.24
7.15	0.81	0.61	0.13	9.75	1.38	1.16	0.24
7.20	0.82	0.61	0.13	9.80	1.40	1.18	0.25
7.25	0.83	0.62	0.13	9.85	1.41	1.19	0.25
7.30	0.83	0.63	0.13	9.90	1.43	1.21	0.26
7.35	0.84	0.64	0.13	9.95	1.45	1.23	0.26
7.40	0.85	0.65	0.13	10.00	1.46	1.24	0.27
7.45	0.86	0.66	0.13	10.05	1.48	1.26	0.27
7.50	0.87	0.66	0.14	10.10	1.50	1.28	0.28
7.55	0.88	0.67	0.14	10.15	1.52	1.30	0.28
7.60	0.89	0.68	0.14	10.20	1.54	1.32	0.29
7.65	0.90	0.69	0.14	10.25	1.56	1.34	0.29
7.70	0.91	0.70	0.14	10.30	1.58	1.35	0.30
7.75	0.91	0.71	0.14	10.35	1.59	1.37	0.30

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.61	1.39	0.31	13.00	6.10	5.86	0.63
10.45	1.63	1.41	0.31	13.05	6.13	5.90	0.60
10.50	1.65	1.43	0.32	13.10	6.17	5.93	0.56
10.55	1.68	1.46	0.33	13.15	6.20	5.96	0.53
10.60	1.70	1.48	0.34	13.20	6.23	5.99	0.51
10.65	1.73	1.50	0.35	13.25	6.25	6.01	0.49
10.70	1.75	1.53	0.37	13.30	6.28	6.04	0.47
10.75	1.78	1.55	0.39	13.35	6.30	6.07	0.45
10.80	1.80	1.58	0.41	13.40	6.33	6.09	0.43
10.85	1.83	1.61	0.43	13.45	6.35	6.11	0.41
10.90	1.86	1.64	0.45	13.50	6.38	6.14	0.39
10.95	1.90	1.67	0.46	13.55	6.40	6.16	0.37
11.00	1.93	1.70	0.48	13.60	6.42	6.18	0.35
11.05	1.96	1.74	0.51	13.65	6.44	6.20	0.34
11.10	2.00	1.77	0.54	13.70	6.45	6.22	0.33
11.15	2.04	1.81	0.57	13.75	6.47	6.24	0.32
11.20	2.08	1.85	0.60	13.80	6.49	6.25	0.32
11.25	2.13	1.90	0.63	13.85	6.51	6.27	0.31
11.30	2.17	1.94	0.67	13.90	6.53	6.29	0.30
11.35	2.22	1.99	0.70	13.95	6.55	6.31	0.30
11.40	2.27	2.04	0.74	14.00	6.57	6.33	0.29
11.45	2.32	2.09	0.77	14.05	6.58	6.34	0.29
11.50	2.37	2.14	0.80	14.10	6.60	6.36	0.29
11.55	2.45	2.23	0.89	14.15	6.62	6.38	0.28
11.60	2.54	2.31	1.07	14.20	6.63	6.40	0.28
11.65	2.62	2.39	1.18	14.25	6.65	6.41	0.27
11.70	2.71	2.48	1.26	14.30	6.67	6.43	0.27
11.75	2.82	2.59	1.40	14.35	6.68	6.44	0.26
11.80	2.94	2.71	1.60	14.40	6.70	6.46	0.26
11.85	3.10	2.87	1.84	14.45	6.71	6.47	0.25
11.90	3.27	3.03	2.17	14.50	6.73	6.49	0.25
11.95	3.55	3.31	2.67	14.55	6.74	6.50	0.24
12.00	3.83	3.59	3.46	14.60	6.76	6.52	0.24
12.05	4.30	4.06	4.41	14.65	6.77	6.53	0.23
12.10	4.76	4.53	**5.75**	14.70	6.78	6.54	0.23
12.15	4.93	4.69	**5.74**	14.75	6.80	6.56	0.22
12.20	5.09	4.85	4.47	14.80	6.81	6.57	0.22
12.25	5.21	4.97	3.58	14.85	6.82	6.58	0.21
12.30	5.32	5.09	2.86	14.90	6.83	6.59	0.21
12.35	5.41	5.17	2.35	14.95	6.85	6.61	0.20
12.40	5.49	5.26	1.91	15.00	6.86	6.62	0.20
12.45	5.58	5.34	1.64	15.05	6.87	6.63	0.19
12.50	5.66	5.42	1.49	15.10	6.88	6.64	0.19
12.55	5.71	5.47	1.32	15.15	6.89	6.65	0.18
12.60	5.76	5.52	1.11	15.20	6.90	6.66	0.18
12.65	5.81	5.57	0.98	15.25	6.91	6.67	0.18
12.70	5.86	5.62	0.90	15.30	6.92	6.68	0.18
12.75	5.90	5.67	0.84	15.35	6.93	6.70	0.18
12.80	5.95	5.71	0.78	15.40	6.95	6.71	0.18
12.85	5.99	5.75	0.74	15.45	6.96	6.72	0.17
12.90	6.03	5.79	0.70	15.50	6.97	6.73	0.17
12.95	6.07	5.83	0.67	15.55	6.98	6.74	0.17

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	6.99	6.75	0.17	18.20	7.42	7.18	0.10
15.65	7.00	6.76	0.17	18.25	7.43	7.19	0.10
15.70	7.01	6.77	0.17	18.30	7.43	7.19	0.10
15.75	7.02	6.78	0.17	18.35	7.44	7.20	0.10
15.80	7.03	6.79	0.16	18.40	7.44	7.21	0.10
15.85	7.04	6.80	0.16	18.45	7.45	7.21	0.10
15.90	7.05	6.81	0.16	18.50	7.46	7.22	0.10
15.95	7.06	6.82	0.16	18.55	7.46	7.22	0.10
16.00	7.07	6.83	0.16	18.60	7.47	7.23	0.10
16.05	7.08	6.84	0.16	18.65	7.48	7.24	0.10
16.10	7.09	6.85	0.16	18.70	7.48	7.24	0.10
16.15	7.10	6.86	0.16	18.75	7.49	7.25	0.10
16.20	7.11	6.87	0.16	18.80	7.49	7.26	0.10
16.25	7.12	6.88	0.15	18.85	7.50	7.26	0.10
16.30	7.12	6.89	0.15	18.90	7.51	7.27	0.10
16.35	7.13	6.89	0.15	18.95	7.51	7.27	0.10
16.40	7.14	6.90	0.15	19.00	7.52	7.28	0.10
16.45	7.15	6.91	0.15	19.05	7.53	7.29	0.10
16.50	7.16	6.92	0.15	19.10	7.53	7.29	0.10
16.55	7.17	6.93	0.15	19.15	7.54	7.30	0.10
16.60	7.18	6.94	0.14	19.20	7.54	7.30	0.10
16.65	7.19	6.95	0.14	19.25	7.55	7.31	0.10
16.70	7.20	6.96	0.14	19.30	7.56	7.32	0.10
16.75	7.20	6.97	0.14	19.35	7.56	7.32	0.10
16.80	7.21	6.97	0.14	19.40	7.57	7.33	0.10
16.85	7.22	6.98	0.14	19.45	7.57	7.33	0.10
16.90	7.23	6.99	0.14	19.50	7.58	7.34	0.10
16.95	7.24	7.00	0.14	19.55	7.58	7.35	0.10
17.00	7.25	7.01	0.13	19.60	7.59	7.35	0.09
17.05	7.25	7.02	0.13	19.65	7.60	7.36	0.09
17.10	7.26	7.02	0.13	19.70	7.60	7.36	0.09
17.15	7.27	7.03	0.13	19.75	7.61	7.37	0.09
17.20	7.28	7.04	0.13	19.80	7.61	7.37	0.09
17.25	7.29	7.05	0.13	19.85	7.62	7.38	0.09
17.30	7.29	7.05	0.13	19.90	7.63	7.39	0.09
17.35	7.30	7.06	0.13	19.95	7.63	7.39	0.09
17.40	7.31	7.07	0.12	20.00	7.64	7.40	0.09
17.45	7.32	7.08	0.12	20.05	7.64	7.40	0.09
17.50	7.32	7.08	0.12	20.10	7.65	7.41	0.09
17.55	7.33	7.09	0.12	20.15	7.65	7.41	0.09
17.60	7.34	7.10	0.12	20.20	7.66	7.42	0.09
17.65	7.35	7.11	0.12	20.25	7.67	7.43	0.09
17.70	7.35	7.11	0.12	20.30	7.67	7.43	0.09
17.75	7.36	7.12	0.12	20.35	7.68	7.44	0.09
17.80	7.37	7.13	0.11	20.40	7.68	7.44	0.09
17.85	7.37	7.13	0.11	20.45	7.69	7.45	0.09
17.90	7.38	7.14	0.11	20.50	7.69	7.45	0.09
17.95	7.39	7.15	0.11	20.55	7.70	7.46	0.09
18.00	7.39	7.15	0.11	20.60	7.70	7.46	0.09
18.05	7.40	7.16	0.11	20.65	7.71	7.47	0.09
18.10	7.41	7.17	0.11	20.70	7.71	7.48	0.09
18.15	7.41	7.17	0.11	20.75	7.72	7.48	0.09

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	7.73	7.49	0.09	23.40	7.98	7.74	0.07
20.85	7.73	7.49	0.09	23.45	7.98	7.74	0.07
20.90	7.74	7.50	0.09	23.50	7.99	7.75	0.07
20.95	7.74	7.50	0.09	23.55	7.99	7.75	0.07
21.00	7.75	7.51	0.09	23.60	7.99	7.75	0.07
21.05	7.75	7.51	0.09	23.65	8.00	7.76	0.07
21.10	7.76	7.52	0.09	23.70	8.00	7.76	0.07
21.15	7.76	7.52	0.08	23.75	8.01	7.77	0.07
21.20	7.77	7.53	0.08	23.80	8.01	7.77	0.07
21.25	7.77	7.53	0.08	23.85	8.02	7.78	0.07
21.30	7.78	7.54	0.08	23.90	8.02	7.78	0.07
21.35	7.78	7.54	0.08	23.95	8.02	7.79	0.07
21.40	7.79	7.55	0.08	24.00	**8.03**	**7.79**	0.08
21.45	7.79	7.55	0.08				
21.50	7.80	7.56	0.08				
21.55	7.80	7.56	0.08				
21.60	7.81	7.57	0.08				
21.65	7.81	7.57	0.08				
21.70	7.82	7.58	0.08				
21.75	7.82	7.58	0.08				
21.80	7.83	7.59	0.08				
21.85	7.83	7.59	0.08				
21.90	7.84	7.60	0.08				
21.95	7.84	7.60	0.08				
22.00	7.85	7.61	0.08				
22.05	7.85	7.61	0.08				
22.10	7.86	7.62	0.08				
22.15	7.86	7.62	0.08				
22.20	7.87	7.63	0.08				
22.25	7.87	7.63	0.08				
22.30	7.88	7.64	0.08				
22.35	7.88	7.64	0.08				
22.40	7.89	7.65	0.08				
22.45	7.89	7.65	0.08				
22.50	7.90	7.66	0.08				
22.55	7.90	7.66	0.08				
22.60	7.91	7.67	0.08				
22.65	7.91	7.67	0.08				
22.70	7.91	7.68	0.08				
22.75	7.92	7.68	0.07				
22.80	7.92	7.68	0.07				
22.85	7.93	7.69	0.07				
22.90	7.93	7.69	0.07				
22.95	7.94	7.70	0.07				
23.00	7.94	7.70	0.07				
23.05	7.95	7.71	0.07				
23.10	7.95	7.71	0.07				
23.15	7.96	7.72	0.07				
23.20	7.96	7.72	0.07				
23.25	7.96	7.72	0.07				
23.30	7.97	7.73	0.07				
23.35	7.97	7.73	0.07				

Summary for Subcatchment EDA3 PERV: EDA3 PERV

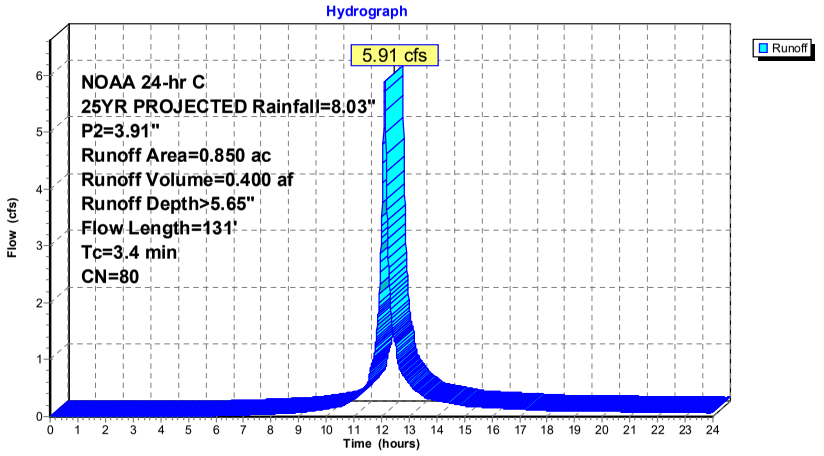
Runoff = 5.91 cfs @ 12.12 hrs, Volume= 0.400 af, Depth> 5.65"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR PROJECTED Rainfall=8.03", P2=3.91"

Area (ac)	CN	Description
0.850	80	>75% Grass cover, Good, HSG D
0.850		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.7	23	0.0200	0.14		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.1	42	0.0150	5.59	6.86	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
3.4	131	Total			

Subcatchment EDA3 PERV: EDA3 PERV



Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.24	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.25	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.25	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.26	0.00	0.00
0.20	0.02	0.00	0.00	2.80	0.26	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.27	0.00	0.00
0.30	0.03	0.00	0.00	2.90	0.27	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.28	0.00	0.00
0.40	0.04	0.00	0.00	3.00	0.28	0.00	0.00
0.45	0.04	0.00	0.00	3.05	0.29	0.00	0.00
0.50	0.04	0.00	0.00	3.10	0.29	0.00	0.00
0.55	0.05	0.00	0.00	3.15	0.30	0.00	0.00
0.60	0.05	0.00	0.00	3.20	0.30	0.00	0.00
0.65	0.06	0.00	0.00	3.25	0.31	0.00	0.00
0.70	0.06	0.00	0.00	3.30	0.32	0.00	0.00
0.75	0.07	0.00	0.00	3.35	0.32	0.00	0.00
0.80	0.07	0.00	0.00	3.40	0.33	0.00	0.00
0.85	0.07	0.00	0.00	3.45	0.33	0.00	0.00
0.90	0.08	0.00	0.00	3.50	0.34	0.00	0.00
0.95	0.08	0.00	0.00	3.55	0.34	0.00	0.00
1.00	0.09	0.00	0.00	3.60	0.35	0.00	0.00
1.05	0.09	0.00	0.00	3.65	0.35	0.00	0.00
1.10	0.10	0.00	0.00	3.70	0.36	0.00	0.00
1.15	0.10	0.00	0.00	3.75	0.36	0.00	0.00
1.20	0.11	0.00	0.00	3.80	0.37	0.00	0.00
1.25	0.11	0.00	0.00	3.85	0.38	0.00	0.00
1.30	0.12	0.00	0.00	3.90	0.38	0.00	0.00
1.35	0.12	0.00	0.00	3.95	0.39	0.00	0.00
1.40	0.12	0.00	0.00	4.00	0.39	0.00	0.00
1.45	0.13	0.00	0.00	4.05	0.40	0.00	0.00
1.50	0.13	0.00	0.00	4.10	0.40	0.00	0.00
1.55	0.14	0.00	0.00	4.15	0.41	0.00	0.00
1.60	0.14	0.00	0.00	4.20	0.42	0.00	0.00
1.65	0.15	0.00	0.00	4.25	0.42	0.00	0.00
1.70	0.15	0.00	0.00	4.30	0.43	0.00	0.00
1.75	0.16	0.00	0.00	4.35	0.43	0.00	0.00
1.80	0.16	0.00	0.00	4.40	0.44	0.00	0.00
1.85	0.17	0.00	0.00	4.45	0.45	0.00	0.00
1.90	0.17	0.00	0.00	4.50	0.45	0.00	0.00
1.95	0.18	0.00	0.00	4.55	0.46	0.00	0.00
2.00	0.18	0.00	0.00	4.60	0.46	0.00	0.00
2.05	0.19	0.00	0.00	4.65	0.47	0.00	0.00
2.10	0.19	0.00	0.00	4.70	0.47	0.00	0.00
2.15	0.20	0.00	0.00	4.75	0.48	0.00	0.00
2.20	0.20	0.00	0.00	4.80	0.49	0.00	0.00
2.25	0.21	0.00	0.00	4.85	0.49	0.00	0.00
2.30	0.21	0.00	0.00	4.90	0.50	0.00	0.00
2.35	0.22	0.00	0.00	4.95	0.50	0.00	0.00
2.40	0.22	0.00	0.00	5.00	0.51	0.00	0.00
2.45	0.23	0.00	0.00	5.05	0.52	0.00	0.00
2.50	0.23	0.00	0.00	5.10	0.52	0.00	0.00
2.55	0.24	0.00	0.00	5.15	0.53	0.00	0.00

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.54	0.00	0.00	7.80	0.92	0.06	0.04
5.25	0.54	0.00	0.00	7.85	0.93	0.06	0.04
5.30	0.55	0.00	0.00	7.90	0.94	0.07	0.04
5.35	0.55	0.00	0.00	7.95	0.95	0.07	0.04
5.40	0.56	0.00	0.00	8.00	0.96	0.07	0.05
5.45	0.57	0.00	0.00	8.05	0.97	0.07	0.05
5.50	0.57	0.00	0.01	8.10	0.98	0.08	0.05
5.55	0.58	0.00	0.01	8.15	0.99	0.08	0.05
5.60	0.59	0.00	0.01	8.20	1.00	0.08	0.05
5.65	0.59	0.00	0.01	8.25	1.01	0.09	0.05
5.70	0.60	0.00	0.01	8.30	1.02	0.09	0.05
5.75	0.60	0.00	0.01	8.35	1.03	0.09	0.05
5.80	0.61	0.00	0.01	8.40	1.04	0.10	0.06
5.85	0.62	0.01	0.01	8.45	1.05	0.10	0.06
5.90	0.62	0.01	0.01	8.50	1.06	0.10	0.06
5.95	0.63	0.01	0.01	8.55	1.07	0.11	0.06
6.00	0.64	0.01	0.01	8.60	1.08	0.11	0.06
6.05	0.64	0.01	0.01	8.65	1.10	0.11	0.06
6.10	0.65	0.01	0.01	8.70	1.11	0.12	0.06
6.15	0.66	0.01	0.01	8.75	1.12	0.12	0.06
6.20	0.66	0.01	0.01	8.80	1.13	0.13	0.07
6.25	0.67	0.01	0.01	8.85	1.14	0.13	0.07
6.30	0.68	0.01	0.01	8.90	1.15	0.13	0.07
6.35	0.68	0.01	0.01	8.95	1.16	0.14	0.07
6.40	0.69	0.01	0.02	9.00	1.17	0.14	0.07
6.45	0.70	0.01	0.02	9.05	1.18	0.15	0.07
6.50	0.71	0.02	0.02	9.10	1.20	0.15	0.08
6.55	0.71	0.02	0.02	9.15	1.21	0.16	0.08
6.60	0.72	0.02	0.02	9.20	1.22	0.16	0.08
6.65	0.73	0.02	0.02	9.25	1.23	0.17	0.08
6.70	0.74	0.02	0.02	9.30	1.25	0.17	0.09
6.75	0.74	0.02	0.02	9.35	1.26	0.18	0.09
6.80	0.75	0.02	0.02	9.40	1.27	0.18	0.09
6.85	0.76	0.02	0.02	9.45	1.29	0.19	0.10
6.90	0.77	0.03	0.02	9.50	1.30	0.20	0.10
6.95	0.78	0.03	0.02	9.55	1.32	0.20	0.10
7.00	0.78	0.03	0.03	9.60	1.33	0.21	0.11
7.05	0.79	0.03	0.03	9.65	1.35	0.22	0.11
7.10	0.80	0.03	0.03	9.70	1.36	0.22	0.11
7.15	0.81	0.03	0.03	9.75	1.38	0.23	0.12
7.20	0.82	0.04	0.03	9.80	1.40	0.24	0.12
7.25	0.83	0.04	0.03	9.85	1.41	0.24	0.13
7.30	0.83	0.04	0.03	9.90	1.43	0.25	0.13
7.35	0.84	0.04	0.03	9.95	1.45	0.26	0.13
7.40	0.85	0.04	0.03	10.00	1.46	0.27	0.14
7.45	0.86	0.05	0.03	10.05	1.48	0.28	0.14
7.50	0.87	0.05	0.04	10.10	1.50	0.29	0.15
7.55	0.88	0.05	0.04	10.15	1.52	0.29	0.15
7.60	0.89	0.05	0.04	10.20	1.54	0.30	0.15
7.65	0.90	0.05	0.04	10.25	1.56	0.31	0.16
7.70	0.91	0.06	0.04	10.30	1.58	0.32	0.16
7.75	0.91	0.06	0.04	10.35	1.59	0.33	0.17

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.61	0.34	0.17	13.00	6.10	3.87	0.58
10.45	1.63	0.35	0.18	13.05	6.13	3.90	0.55
10.50	1.65	0.36	0.18	13.10	6.17	3.93	0.52
10.55	1.68	0.38	0.19	13.15	6.20	3.96	0.49
10.60	1.70	0.39	0.20	13.20	6.23	3.99	0.47
10.65	1.73	0.40	0.21	13.25	6.25	4.01	0.45
10.70	1.75	0.42	0.22	13.30	6.28	4.03	0.44
10.75	1.78	0.43	0.24	13.35	6.30	4.06	0.42
10.80	1.80	0.45	0.25	13.40	6.33	4.08	0.40
10.85	1.83	0.46	0.27	13.45	6.35	4.10	0.38
10.90	1.86	0.48	0.28	13.50	6.38	4.12	0.37
10.95	1.90	0.50	0.30	13.55	6.40	4.14	0.35
11.00	1.93	0.52	0.31	13.60	6.42	4.16	0.33
11.05	1.96	0.54	0.33	13.65	6.44	4.18	0.32
11.10	2.00	0.56	0.35	13.70	6.45	4.19	0.31
11.15	2.04	0.59	0.38	13.75	6.47	4.21	0.31
11.20	2.08	0.61	0.41	13.80	6.49	4.23	0.30
11.25	2.13	0.64	0.44	13.85	6.51	4.25	0.30
11.30	2.17	0.67	0.46	13.90	6.53	4.26	0.29
11.35	2.22	0.70	0.49	13.95	6.55	4.28	0.29
11.40	2.27	0.73	0.52	14.00	6.57	4.30	0.28
11.45	2.32	0.77	0.55	14.05	6.58	4.31	0.28
11.50	2.37	0.80	0.58	14.10	6.60	4.33	0.27
11.55	2.45	0.86	0.70	14.15	6.62	4.34	0.27
11.60	2.54	0.91	0.84	14.20	6.63	4.36	0.27
11.65	2.62	0.97	0.93	14.25	6.65	4.37	0.26
11.70	2.71	1.03	0.99	14.30	6.67	4.39	0.26
11.75	2.82	1.12	1.15	14.35	6.68	4.40	0.25
11.80	2.94	1.21	1.32	14.40	6.70	4.42	0.25
11.85	3.10	1.33	1.60	14.45	6.71	4.43	0.24
11.90	3.27	1.45	1.89	14.50	6.73	4.44	0.24
11.95	3.55	1.67	2.54	14.55	6.74	4.46	0.23
12.00	3.83	1.90	3.25	14.60	6.76	4.47	0.23
12.05	4.30	2.29	4.47	14.65	6.77	4.48	0.22
12.10	4.76	2.69	**5.73**	14.70	6.78	4.49	0.22
12.15	4.93	2.83	**4.98**	14.75	6.80	4.51	0.21
12.20	5.09	2.97	3.63	14.80	6.81	4.52	0.21
12.25	5.21	3.07	2.78	14.85	6.82	4.53	0.20
12.30	5.32	3.18	2.21	14.90	6.83	4.54	0.20
12.35	5.41	3.25	1.79	14.95	6.85	4.55	0.19
12.40	5.49	3.33	1.51	15.00	6.86	4.56	0.19
12.45	5.58	3.40	1.36	15.05	6.87	4.57	0.19
12.50	5.66	3.47	1.29	15.10	6.88	4.58	0.18
12.55	5.71	3.52	1.12	15.15	6.89	4.59	0.18
12.60	5.76	3.57	0.95	15.20	6.90	4.60	0.18
12.65	5.81	3.61	0.85	15.25	6.91	4.61	0.17
12.70	5.86	3.66	0.80	15.30	6.92	4.62	0.17
12.75	5.90	3.70	0.75	15.35	6.93	4.63	0.17
12.80	5.95	3.74	0.72	15.40	6.95	4.64	0.17
12.85	5.99	3.77	0.68	15.45	6.96	4.65	0.17
12.90	6.03	3.81	0.65	15.50	6.97	4.66	0.17
12.95	6.07	3.84	0.62	15.55	6.98	4.67	0.17

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	6.99	4.68	0.17	18.20	7.42	5.08	0.10
15.65	7.00	4.69	0.17	18.25	7.43	5.09	0.10
15.70	7.01	4.70	0.16	18.30	7.43	5.09	0.10
15.75	7.02	4.71	0.16	18.35	7.44	5.10	0.10
15.80	7.03	4.72	0.16	18.40	7.44	5.11	0.10
15.85	7.04	4.73	0.16	18.45	7.45	5.11	0.10
15.90	7.05	4.74	0.16	18.50	7.46	5.12	0.10
15.95	7.06	4.75	0.16	18.55	7.46	5.12	0.10
16.00	7.07	4.76	0.16	18.60	7.47	5.13	0.10
16.05	7.08	4.77	0.16	18.65	7.48	5.14	0.10
16.10	7.09	4.78	0.15	18.70	7.48	5.14	0.10
16.15	7.10	4.78	0.15	18.75	7.49	5.15	0.10
16.20	7.11	4.79	0.15	18.80	7.49	5.15	0.10
16.25	7.12	4.80	0.15	18.85	7.50	5.16	0.10
16.30	7.12	4.81	0.15	18.90	7.51	5.16	0.10
16.35	7.13	4.82	0.15	18.95	7.51	5.17	0.10
16.40	7.14	4.83	0.15	19.00	7.52	5.18	0.10
16.45	7.15	4.84	0.15	19.05	7.53	5.18	0.10
16.50	7.16	4.84	0.14	19.10	7.53	5.19	0.10
16.55	7.17	4.85	0.14	19.15	7.54	5.19	0.10
16.60	7.18	4.86	0.14	19.20	7.54	5.20	0.10
16.65	7.19	4.87	0.14	19.25	7.55	5.20	0.10
16.70	7.20	4.88	0.14	19.30	7.56	5.21	0.10
16.75	7.20	4.88	0.14	19.35	7.56	5.22	0.10
16.80	7.21	4.89	0.14	19.40	7.57	5.22	0.10
16.85	7.22	4.90	0.14	19.45	7.57	5.23	0.09
16.90	7.23	4.91	0.13	19.50	7.58	5.23	0.09
16.95	7.24	4.92	0.13	19.55	7.58	5.24	0.09
17.00	7.25	4.92	0.13	19.60	7.59	5.24	0.09
17.05	7.25	4.93	0.13	19.65	7.60	5.25	0.09
17.10	7.26	4.94	0.13	19.70	7.60	5.25	0.09
17.15	7.27	4.94	0.13	19.75	7.61	5.26	0.09
17.20	7.28	4.95	0.13	19.80	7.61	5.26	0.09
17.25	7.29	4.96	0.13	19.85	7.62	5.27	0.09
17.30	7.29	4.97	0.12	19.90	7.63	5.27	0.09
17.35	7.30	4.97	0.12	19.95	7.63	5.28	0.09
17.40	7.31	4.98	0.12	20.00	7.64	5.29	0.09
17.45	7.32	4.99	0.12	20.05	7.64	5.29	0.09
17.50	7.32	4.99	0.12	20.10	7.65	5.30	0.09
17.55	7.33	5.00	0.12	20.15	7.65	5.30	0.09
17.60	7.34	5.01	0.12	20.20	7.66	5.31	0.09
17.65	7.35	5.01	0.12	20.25	7.67	5.31	0.09
17.70	7.35	5.02	0.11	20.30	7.67	5.32	0.09
17.75	7.36	5.03	0.11	20.35	7.68	5.32	0.09
17.80	7.37	5.03	0.11	20.40	7.68	5.33	0.09
17.85	7.37	5.04	0.11	20.45	7.69	5.33	0.09
17.90	7.38	5.05	0.11	20.50	7.69	5.34	0.09
17.95	7.39	5.05	0.11	20.55	7.70	5.34	0.09
18.00	7.39	5.06	0.11	20.60	7.70	5.35	0.09
18.05	7.40	5.06	0.11	20.65	7.71	5.35	0.09
18.10	7.41	5.07	0.10	20.70	7.71	5.36	0.09
18.15	7.41	5.08	0.10	20.75	7.72	5.36	0.09

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	7.73	5.37	0.09	23.40	7.98	5.60	0.07
20.85	7.73	5.37	0.09	23.45	7.98	5.61	0.07
20.90	7.74	5.38	0.09	23.50	7.99	5.61	0.07
20.95	7.74	5.38	0.09	23.55	7.99	5.62	0.07
21.00	7.75	5.39	0.09	23.60	7.99	5.62	0.07
21.05	7.75	5.39	0.08	23.65	8.00	5.62	0.07
21.10	7.76	5.40	0.08	23.70	8.00	5.63	0.07
21.15	7.76	5.40	0.08	23.75	8.01	5.63	0.07
21.20	7.77	5.41	0.08	23.80	8.01	5.64	0.07
21.25	7.77	5.41	0.08	23.85	8.02	5.64	0.07
21.30	7.78	5.42	0.08	23.90	8.02	5.64	0.07
21.35	7.78	5.42	0.08	23.95	8.02	5.65	0.07
21.40	7.79	5.43	0.08	24.00	**8.03**	**5.65**	0.08
21.45	7.79	5.43	0.08				
21.50	7.80	5.44	0.08				
21.55	7.80	5.44	0.08				
21.60	7.81	5.45	0.08				
21.65	7.81	5.45	0.08				
21.70	7.82	5.46	0.08				
21.75	7.82	5.46	0.08				
21.80	7.83	5.46	0.08				
21.85	7.83	5.47	0.08				
21.90	7.84	5.47	0.08				
21.95	7.84	5.48	0.08				
22.00	7.85	5.48	0.08				
22.05	7.85	5.49	0.08				
22.10	7.86	5.49	0.08				
22.15	7.86	5.50	0.08				
22.20	7.87	5.50	0.08				
22.25	7.87	5.51	0.08				
22.30	7.88	5.51	0.08				
22.35	7.88	5.51	0.08				
22.40	7.89	5.52	0.08				
22.45	7.89	5.52	0.08				
22.50	7.90	5.53	0.08				
22.55	7.90	5.53	0.08				
22.60	7.91	5.54	0.08				
22.65	7.91	5.54	0.08				
22.70	7.91	5.55	0.07				
22.75	7.92	5.55	0.07				
22.80	7.92	5.55	0.07				
22.85	7.93	5.56	0.07				
22.90	7.93	5.56	0.07				
22.95	7.94	5.57	0.07				
23.00	7.94	5.57	0.07				
23.05	7.95	5.58	0.07				
23.10	7.95	5.58	0.07				
23.15	7.96	5.58	0.07				
23.20	7.96	5.59	0.07				
23.25	7.96	5.59	0.07				
23.30	7.97	5.60	0.07				
23.35	7.97	5.60	0.07				

Summary for Subcatchment EDA4 IMP: EDA4 IMP

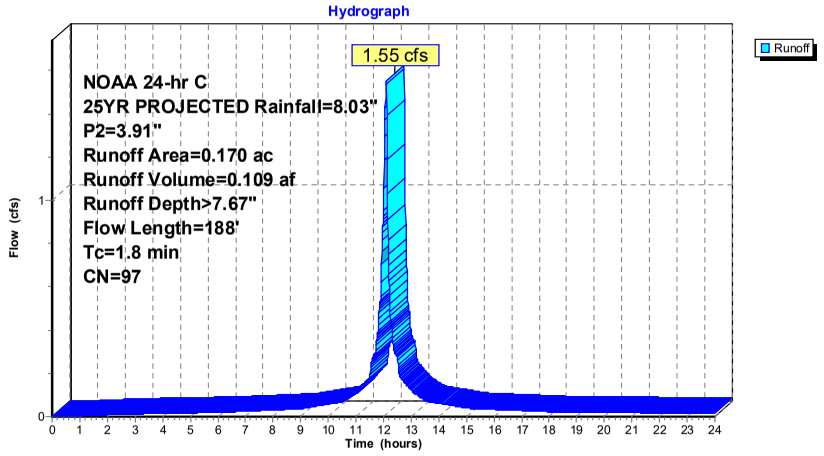
Runoff = 1.55 cfs @ 12.10 hrs, Volume= 0.109 af, Depth> 7.67"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR PROJECTED Rainfall=8.03", P2=3.91"

	Area (ac)	CN	Description
*	0.120	98	Impervious vehicular
	0.050	96	Gravel surface, HSG D
	0.170	97	Weighted Average
	0.050		29.41% Pervious Area
	0.120		70.59% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0160	1.39		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	88	0.0150	2.49		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
1.8	188	Total			

Subcatchment EDA4 IMP: EDA4 IMP



Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.24	0.07	0.01
0.05	0.01	0.00	0.00	2.65	0.25	0.07	0.01
0.10	0.01	0.00	0.00	2.70	0.25	0.07	0.01
0.15	0.01	0.00	0.00	2.75	0.26	0.08	0.01
0.20	0.02	0.00	0.00	2.80	0.26	0.08	0.01
0.25	0.02	0.00	0.00	2.85	0.27	0.08	0.01
0.30	0.03	0.00	0.00	2.90	0.27	0.09	0.01
0.35	0.03	0.00	0.00	2.95	0.28	0.09	0.01
0.40	0.04	0.00	0.00	3.00	0.28	0.09	0.01
0.45	0.04	0.00	0.00	3.05	0.29	0.10	0.01
0.50	0.04	0.00	0.00	3.10	0.29	0.10	0.01
0.55	0.05	0.00	0.00	3.15	0.30	0.10	0.01
0.60	0.05	0.00	0.00	3.20	0.30	0.11	0.01
0.65	0.06	0.00	0.00	3.25	0.31	0.11	0.01
0.70	0.06	0.00	0.00	3.30	0.32	0.11	0.01
0.75	0.07	0.00	0.00	3.35	0.32	0.12	0.01
0.80	0.07	0.00	0.00	3.40	0.33	0.12	0.01
0.85	0.07	0.00	0.00	3.45	0.33	0.13	0.01
0.90	0.08	0.00	0.00	3.50	0.34	0.13	0.01
0.95	0.08	0.00	0.00	3.55	0.34	0.13	0.01
1.00	0.09	0.00	0.00	3.60	0.35	0.14	0.01
1.05	0.09	0.00	0.00	3.65	0.35	0.14	0.01
1.10	0.10	0.00	0.00	3.70	0.36	0.15	0.01
1.15	0.10	0.00	0.00	3.75	0.36	0.15	0.01
1.20	0.11	0.01	0.00	3.80	0.37	0.15	0.01
1.25	0.11	0.01	0.00	3.85	0.38	0.16	0.01
1.30	0.12	0.01	0.00	3.90	0.38	0.16	0.01
1.35	0.12	0.01	0.00	3.95	0.39	0.17	0.01
1.40	0.12	0.01	0.00	4.00	0.39	0.17	0.01
1.45	0.13	0.01	0.00	4.05	0.40	0.18	0.01
1.50	0.13	0.01	0.01	4.10	0.40	0.18	0.02
1.55	0.14	0.02	0.01	4.15	0.41	0.18	0.02
1.60	0.14	0.02	0.01	4.20	0.42	0.19	0.02
1.65	0.15	0.02	0.01	4.25	0.42	0.19	0.02
1.70	0.15	0.02	0.01	4.30	0.43	0.20	0.02
1.75	0.16	0.02	0.01	4.35	0.43	0.20	0.02
1.80	0.16	0.02	0.01	4.40	0.44	0.21	0.02
1.85	0.17	0.03	0.01	4.45	0.45	0.21	0.02
1.90	0.17	0.03	0.01	4.50	0.45	0.22	0.02
1.95	0.18	0.03	0.01	4.55	0.46	0.22	0.02
2.00	0.18	0.03	0.01	4.60	0.46	0.23	0.02
2.05	0.19	0.04	0.01	4.65	0.47	0.23	0.02
2.10	0.19	0.04	0.01	4.70	0.47	0.24	0.02
2.15	0.20	0.04	0.01	4.75	0.48	0.24	0.02
2.20	0.20	0.04	0.01	4.80	0.49	0.25	0.02
2.25	0.21	0.05	0.01	4.85	0.49	0.25	0.02
2.30	0.21	0.05	0.01	4.90	0.50	0.26	0.02
2.35	0.22	0.05	0.01	4.95	0.50	0.26	0.02
2.40	0.22	0.05	0.01	5.00	0.51	0.27	0.02
2.45	0.23	0.06	0.01	5.05	0.52	0.27	0.02
2.50	0.23	0.06	0.01	5.10	0.52	0.28	0.02
2.55	0.24	0.06	0.01	5.15	0.53	0.28	0.02

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.54	0.29	0.02	7.80	0.92	0.63	0.03
5.25	0.54	0.29	0.02	7.85	0.93	0.64	0.03
5.30	0.55	0.30	0.02	7.90	0.94	0.65	0.03
5.35	0.55	0.30	0.02	7.95	0.95	0.66	0.03
5.40	0.56	0.31	0.02	8.00	0.96	0.67	0.03
5.45	0.57	0.31	0.02	8.05	0.97	0.68	0.03
5.50	0.57	0.32	0.02	8.10	0.98	0.69	0.03
5.55	0.58	0.32	0.02	8.15	0.99	0.70	0.03
5.60	0.59	0.33	0.02	8.20	1.00	0.71	0.03
5.65	0.59	0.33	0.02	8.25	1.01	0.72	0.03
5.70	0.60	0.34	0.02	8.30	1.02	0.73	0.03
5.75	0.60	0.35	0.02	8.35	1.03	0.74	0.03
5.80	0.61	0.35	0.02	8.40	1.04	0.75	0.03
5.85	0.62	0.36	0.02	8.45	1.05	0.76	0.03
5.90	0.62	0.36	0.02	8.50	1.06	0.77	0.03
5.95	0.63	0.37	0.02	8.55	1.07	0.78	0.03
6.00	0.64	0.37	0.02	8.60	1.08	0.79	0.03
6.05	0.64	0.38	0.02	8.65	1.10	0.80	0.03
6.10	0.65	0.39	0.02	8.70	1.11	0.81	0.04
6.15	0.66	0.39	0.02	8.75	1.12	0.82	0.04
6.20	0.66	0.40	0.02	8.80	1.13	0.83	0.04
6.25	0.67	0.40	0.02	8.85	1.14	0.84	0.04
6.30	0.68	0.41	0.02	8.90	1.15	0.85	0.04
6.35	0.68	0.42	0.02	8.95	1.16	0.86	0.04
6.40	0.69	0.42	0.02	9.00	1.17	0.87	0.04
6.45	0.70	0.43	0.02	9.05	1.18	0.88	0.04
6.50	0.71	0.44	0.02	9.10	1.20	0.89	0.04
6.55	0.71	0.44	0.02	9.15	1.21	0.90	0.04
6.60	0.72	0.45	0.02	9.20	1.22	0.92	0.04
6.65	0.73	0.46	0.02	9.25	1.23	0.93	0.04
6.70	0.74	0.46	0.02	9.30	1.25	0.94	0.04
6.75	0.74	0.47	0.02	9.35	1.26	0.95	0.04
6.80	0.75	0.48	0.02	9.40	1.27	0.97	0.04
6.85	0.76	0.48	0.02	9.45	1.29	0.98	0.05
6.90	0.77	0.49	0.02	9.50	1.30	0.99	0.05
6.95	0.78	0.50	0.02	9.55	1.32	1.01	0.05
7.00	0.78	0.50	0.03	9.60	1.33	1.02	0.05
7.05	0.79	0.51	0.03	9.65	1.35	1.04	0.05
7.10	0.80	0.52	0.03	9.70	1.36	1.05	0.05
7.15	0.81	0.53	0.03	9.75	1.38	1.07	0.05
7.20	0.82	0.54	0.03	9.80	1.40	1.08	0.05
7.25	0.83	0.54	0.03	9.85	1.41	1.10	0.05
7.30	0.83	0.55	0.03	9.90	1.43	1.12	0.06
7.35	0.84	0.56	0.03	9.95	1.45	1.13	0.06
7.40	0.85	0.57	0.03	10.00	1.46	1.15	0.06
7.45	0.86	0.58	0.03	10.05	1.48	1.17	0.06
7.50	0.87	0.58	0.03	10.10	1.50	1.18	0.06
7.55	0.88	0.59	0.03	10.15	1.52	1.20	0.06
7.60	0.89	0.60	0.03	10.20	1.54	1.22	0.06
7.65	0.90	0.61	0.03	10.25	1.56	1.24	0.06
7.70	0.91	0.62	0.03	10.30	1.58	1.26	0.06
7.75	0.91	0.63	0.03	10.35	1.59	1.28	0.06

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.61	1.29	0.07	13.00	6.10	5.75	0.12
10.45	1.63	1.31	0.07	13.05	6.13	5.78	0.11
10.50	1.65	1.33	0.07	13.10	6.17	5.81	0.11
10.55	1.68	1.36	0.07	13.15	6.20	5.84	0.10
10.60	1.70	1.38	0.07	13.20	6.23	5.87	0.10
10.65	1.73	1.40	0.08	13.25	6.25	5.90	0.10
10.70	1.75	1.43	0.08	13.30	6.28	5.92	0.09
10.75	1.78	1.45	0.09	13.35	6.30	5.95	0.09
10.80	1.80	1.48	0.09	13.40	6.33	5.97	0.09
10.85	1.83	1.51	0.10	13.45	6.35	6.00	0.08
10.90	1.86	1.54	0.10	13.50	6.38	6.02	0.08
10.95	1.90	1.57	0.10	13.55	6.40	6.04	0.07
11.00	1.93	1.60	0.11	13.60	6.42	6.06	0.07
11.05	1.96	1.64	0.12	13.65	6.44	6.08	0.07
11.10	2.00	1.67	0.12	13.70	6.45	6.10	0.07
11.15	2.04	1.71	0.13	13.75	6.47	6.12	0.07
11.20	2.08	1.75	0.14	13.80	6.49	6.14	0.07
11.25	2.13	1.79	0.15	13.85	6.51	6.15	0.06
11.30	2.17	1.84	0.15	13.90	6.53	6.17	0.06
11.35	2.22	1.89	0.16	13.95	6.55	6.19	0.06
11.40	2.27	1.93	0.16	14.00	6.57	6.21	0.06
11.45	2.32	1.99	0.17	14.05	6.58	6.23	0.06
11.50	2.37	2.04	0.18	14.10	6.60	6.24	0.06
11.55	2.45	2.12	0.24	14.15	6.62	6.26	0.06
11.60	2.54	2.20	0.27	14.20	6.63	6.28	0.06
11.65	2.62	2.28	0.28	14.25	6.65	6.29	0.06
11.70	2.71	2.37	0.29	14.30	6.67	6.31	0.06
11.75	2.82	2.48	0.36	14.35	6.68	6.32	0.05
11.80	2.94	2.60	0.39	14.40	6.70	6.34	0.05
11.85	3.10	2.76	0.50	14.45	6.71	6.35	0.05
11.90	3.27	2.92	0.54	14.50	6.73	6.37	0.05
11.95	3.55	3.20	0.82	14.55	6.74	6.38	0.05
12.00	3.83	3.48	0.93	14.60	6.76	6.40	0.05
12.05	4.30	3.95	1.37	14.65	6.77	6.41	0.05
12.10	4.76	4.41	**1.55**	14.70	6.78	6.42	0.05
12.15	4.93	4.57	0.91	14.75	6.80	6.44	0.05
12.20	5.09	4.74	0.63	14.80	6.81	6.45	0.04
12.25	5.21	4.85	0.46	14.85	6.82	6.46	0.04
12.30	5.32	4.97	0.41	14.90	6.83	6.48	0.04
12.35	5.41	5.06	0.33	14.95	6.85	6.49	0.04
12.40	5.49	5.14	0.30	15.00	6.86	6.50	0.04
12.45	5.58	5.22	0.28	15.05	6.87	6.51	0.04
12.50	5.66	5.30	0.28	15.10	6.88	6.52	0.04
12.55	5.71	5.35	0.21	15.15	6.89	6.53	0.04
12.60	5.76	5.41	0.19	15.20	6.90	6.54	0.04
12.65	5.81	5.46	0.17	15.25	6.91	6.56	0.04
12.70	5.86	5.50	0.17	15.30	6.92	6.57	0.04
12.75	5.90	5.55	0.16	15.35	6.93	6.58	0.04
12.80	5.95	5.59	0.15	15.40	6.95	6.59	0.04
12.85	5.99	5.63	0.14	15.45	6.96	6.60	0.04
12.90	6.03	5.67	0.14	15.50	6.97	6.61	0.04
12.95	6.07	5.71	0.13	15.55	6.98	6.62	0.04

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	6.99	6.63	0.04	18.20	7.42	7.06	0.02
15.65	7.00	6.64	0.04	18.25	7.43	7.07	0.02
15.70	7.01	6.65	0.04	18.30	7.43	7.07	0.02
15.75	7.02	6.66	0.03	18.35	7.44	7.08	0.02
15.80	7.03	6.67	0.03	18.40	7.44	7.09	0.02
15.85	7.04	6.68	0.03	18.45	7.45	7.09	0.02
15.90	7.05	6.69	0.03	18.50	7.46	7.10	0.02
15.95	7.06	6.70	0.03	18.55	7.46	7.10	0.02
16.00	7.07	6.71	0.03	18.60	7.47	7.11	0.02
16.05	7.08	6.72	0.03	18.65	7.48	7.12	0.02
16.10	7.09	6.73	0.03	18.70	7.48	7.12	0.02
16.15	7.10	6.74	0.03	18.75	7.49	7.13	0.02
16.20	7.11	6.75	0.03	18.80	7.49	7.14	0.02
16.25	7.12	6.76	0.03	18.85	7.50	7.14	0.02
16.30	7.12	6.77	0.03	18.90	7.51	7.15	0.02
16.35	7.13	6.78	0.03	18.95	7.51	7.15	0.02
16.40	7.14	6.79	0.03	19.00	7.52	7.16	0.02
16.45	7.15	6.79	0.03	19.05	7.53	7.17	0.02
16.50	7.16	6.80	0.03	19.10	7.53	7.17	0.02
16.55	7.17	6.81	0.03	19.15	7.54	7.18	0.02
16.60	7.18	6.82	0.03	19.20	7.54	7.18	0.02
16.65	7.19	6.83	0.03	19.25	7.55	7.19	0.02
16.70	7.20	6.84	0.03	19.30	7.56	7.20	0.02
16.75	7.20	6.85	0.03	19.35	7.56	7.20	0.02
16.80	7.21	6.86	0.03	19.40	7.57	7.21	0.02
16.85	7.22	6.86	0.03	19.45	7.57	7.21	0.02
16.90	7.23	6.87	0.03	19.50	7.58	7.22	0.02
16.95	7.24	6.88	0.03	19.55	7.58	7.23	0.02
17.00	7.25	6.89	0.03	19.60	7.59	7.23	0.02
17.05	7.25	6.90	0.03	19.65	7.60	7.24	0.02
17.10	7.26	6.90	0.03	19.70	7.60	7.24	0.02
17.15	7.27	6.91	0.03	19.75	7.61	7.25	0.02
17.20	7.28	6.92	0.03	19.80	7.61	7.26	0.02
17.25	7.29	6.93	0.03	19.85	7.62	7.26	0.02
17.30	7.29	6.94	0.03	19.90	7.63	7.27	0.02
17.35	7.30	6.94	0.03	19.95	7.63	7.27	0.02
17.40	7.31	6.95	0.03	20.00	7.64	7.28	0.02
17.45	7.32	6.96	0.03	20.05	7.64	7.28	0.02
17.50	7.32	6.97	0.03	20.10	7.65	7.29	0.02
17.55	7.33	6.97	0.03	20.15	7.65	7.29	0.02
17.60	7.34	6.98	0.02	20.20	7.66	7.30	0.02
17.65	7.35	6.99	0.02	20.25	7.67	7.31	0.02
17.70	7.35	6.99	0.02	20.30	7.67	7.31	0.02
17.75	7.36	7.00	0.02	20.35	7.68	7.32	0.02
17.80	7.37	7.01	0.02	20.40	7.68	7.32	0.02
17.85	7.37	7.02	0.02	20.45	7.69	7.33	0.02
17.90	7.38	7.02	0.02	20.50	7.69	7.33	0.02
17.95	7.39	7.03	0.02	20.55	7.70	7.34	0.02
18.00	7.39	7.04	0.02	20.60	7.70	7.34	0.02
18.05	7.40	7.04	0.02	20.65	7.71	7.35	0.02
18.10	7.41	7.05	0.02	20.70	7.71	7.36	0.02
18.15	7.41	7.05	0.02	20.75	7.72	7.36	0.02

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	7.73	7.37	0.02	23.40	7.98	7.62	0.01
20.85	7.73	7.37	0.02	23.45	7.98	7.62	0.01
20.90	7.74	7.38	0.02	23.50	7.99	7.63	0.01
20.95	7.74	7.38	0.02	23.55	7.99	7.63	0.01
21.00	7.75	7.39	0.02	23.60	7.99	7.64	0.01
21.05	7.75	7.39	0.02	23.65	8.00	7.64	0.01
21.10	7.76	7.40	0.02	23.70	8.00	7.64	0.01
21.15	7.76	7.40	0.02	23.75	8.01	7.65	0.01
21.20	7.77	7.41	0.02	23.80	8.01	7.65	0.01
21.25	7.77	7.41	0.02	23.85	8.02	7.66	0.01
21.30	7.78	7.42	0.02	23.90	8.02	7.66	0.01
21.35	7.78	7.42	0.02	23.95	8.02	7.67	0.02
21.40	7.79	7.43	0.02	24.00	**8.03**	**7.67**	0.02
21.45	7.79	7.43	0.02				
21.50	7.80	7.44	0.02				
21.55	7.80	7.44	0.02				
21.60	7.81	7.45	0.02				
21.65	7.81	7.45	0.02				
21.70	7.82	7.46	0.02				
21.75	7.82	7.46	0.02				
21.80	7.83	7.47	0.02				
21.85	7.83	7.47	0.02				
21.90	7.84	7.48	0.02				
21.95	7.84	7.48	0.02				
22.00	7.85	7.49	0.02				
22.05	7.85	7.49	0.02				
22.10	7.86	7.50	0.02				
22.15	7.86	7.50	0.02				
22.20	7.87	7.51	0.02				
22.25	7.87	7.51	0.02				
22.30	7.88	7.52	0.02				
22.35	7.88	7.52	0.02				
22.40	7.89	7.53	0.02				
22.45	7.89	7.53	0.02				
22.50	7.90	7.54	0.02				
22.55	7.90	7.54	0.02				
22.60	7.91	7.55	0.02				
22.65	7.91	7.55	0.02				
22.70	7.91	7.56	0.02				
22.75	7.92	7.56	0.02				
22.80	7.92	7.56	0.02				
22.85	7.93	7.57	0.02				
22.90	7.93	7.57	0.02				
22.95	7.94	7.58	0.02				
23.00	7.94	7.58	0.02				
23.05	7.95	7.59	0.02				
23.10	7.95	7.59	0.02				
23.15	7.96	7.60	0.02				
23.20	7.96	7.60	0.02				
23.25	7.96	7.60	0.02				
23.30	7.97	7.61	0.01				
23.35	7.97	7.61	0.01				

Summary for Subcatchment EDA4 PERV: EDA4 PERV

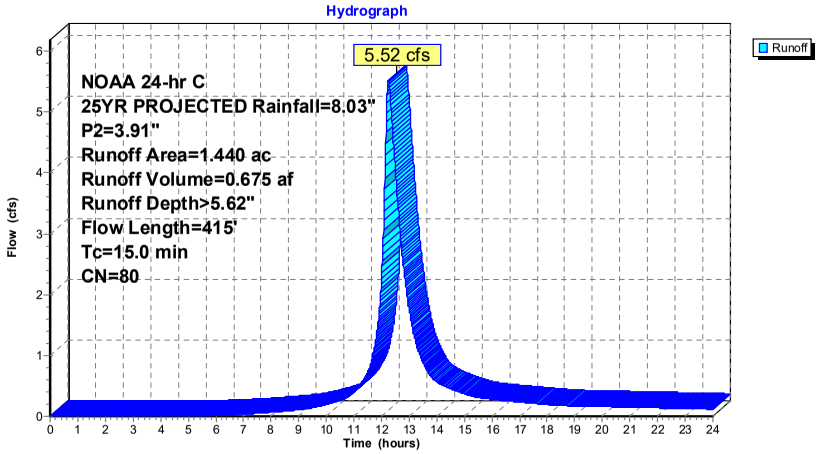
Runoff = 5.52 cfs @ 12.24 hrs, Volume= 0.675 af, Depth> 5.62"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR PROJECTED Rainfall=8.03", P2=3.91"

Area (ac)	CN	Description
1.440	80	>75% Grass cover, Good, HSG D
1.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.8	100	0.0080	0.13		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
1.1	115	0.0140	1.77		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
0.5	100	0.0039	3.22	5.69	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.6	100	0.0020	2.79	8.77	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
15.0	415	Total			

Subcatchment EDA4 PERV: EDA4 PERV



Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.24	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.25	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.25	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.26	0.00	0.00
0.20	0.02	0.00	0.00	2.80	0.26	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.27	0.00	0.00
0.30	0.03	0.00	0.00	2.90	0.27	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.28	0.00	0.00
0.40	0.04	0.00	0.00	3.00	0.28	0.00	0.00
0.45	0.04	0.00	0.00	3.05	0.29	0.00	0.00
0.50	0.04	0.00	0.00	3.10	0.29	0.00	0.00
0.55	0.05	0.00	0.00	3.15	0.30	0.00	0.00
0.60	0.05	0.00	0.00	3.20	0.30	0.00	0.00
0.65	0.06	0.00	0.00	3.25	0.31	0.00	0.00
0.70	0.06	0.00	0.00	3.30	0.32	0.00	0.00
0.75	0.07	0.00	0.00	3.35	0.32	0.00	0.00
0.80	0.07	0.00	0.00	3.40	0.33	0.00	0.00
0.85	0.07	0.00	0.00	3.45	0.33	0.00	0.00
0.90	0.08	0.00	0.00	3.50	0.34	0.00	0.00
0.95	0.08	0.00	0.00	3.55	0.34	0.00	0.00
1.00	0.09	0.00	0.00	3.60	0.35	0.00	0.00
1.05	0.09	0.00	0.00	3.65	0.35	0.00	0.00
1.10	0.10	0.00	0.00	3.70	0.36	0.00	0.00
1.15	0.10	0.00	0.00	3.75	0.36	0.00	0.00
1.20	0.11	0.00	0.00	3.80	0.37	0.00	0.00
1.25	0.11	0.00	0.00	3.85	0.38	0.00	0.00
1.30	0.12	0.00	0.00	3.90	0.38	0.00	0.00
1.35	0.12	0.00	0.00	3.95	0.39	0.00	0.00
1.40	0.12	0.00	0.00	4.00	0.39	0.00	0.00
1.45	0.13	0.00	0.00	4.05	0.40	0.00	0.00
1.50	0.13	0.00	0.00	4.10	0.40	0.00	0.00
1.55	0.14	0.00	0.00	4.15	0.41	0.00	0.00
1.60	0.14	0.00	0.00	4.20	0.42	0.00	0.00
1.65	0.15	0.00	0.00	4.25	0.42	0.00	0.00
1.70	0.15	0.00	0.00	4.30	0.43	0.00	0.00
1.75	0.16	0.00	0.00	4.35	0.43	0.00	0.00
1.80	0.16	0.00	0.00	4.40	0.44	0.00	0.00
1.85	0.17	0.00	0.00	4.45	0.45	0.00	0.00
1.90	0.17	0.00	0.00	4.50	0.45	0.00	0.00
1.95	0.18	0.00	0.00	4.55	0.46	0.00	0.00
2.00	0.18	0.00	0.00	4.60	0.46	0.00	0.00
2.05	0.19	0.00	0.00	4.65	0.47	0.00	0.00
2.10	0.19	0.00	0.00	4.70	0.47	0.00	0.00
2.15	0.20	0.00	0.00	4.75	0.48	0.00	0.00
2.20	0.20	0.00	0.00	4.80	0.49	0.00	0.00
2.25	0.21	0.00	0.00	4.85	0.49	0.00	0.00
2.30	0.21	0.00	0.00	4.90	0.50	0.00	0.00
2.35	0.22	0.00	0.00	4.95	0.50	0.00	0.00
2.40	0.22	0.00	0.00	5.00	0.51	0.00	0.00
2.45	0.23	0.00	0.00	5.05	0.52	0.00	0.00
2.50	0.23	0.00	0.00	5.10	0.52	0.00	0.00
2.55	0.24	0.00	0.00	5.15	0.53	0.00	0.00

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.54	0.00	0.00	7.80	0.92	0.06	0.06
5.25	0.54	0.00	0.00	7.85	0.93	0.06	0.06
5.30	0.55	0.00	0.00	7.90	0.94	0.07	0.06
5.35	0.55	0.00	0.00	7.95	0.95	0.07	0.07
5.40	0.56	0.00	0.00	8.00	0.96	0.07	0.07
5.45	0.57	0.00	0.00	8.05	0.97	0.07	0.07
5.50	0.57	0.00	0.00	8.10	0.98	0.08	0.07
5.55	0.58	0.00	0.00	8.15	0.99	0.08	0.07
5.60	0.59	0.00	0.01	8.20	1.00	0.08	0.07
5.65	0.59	0.00	0.01	8.25	1.01	0.09	0.08
5.70	0.60	0.00	0.01	8.30	1.02	0.09	0.08
5.75	0.60	0.00	0.01	8.35	1.03	0.09	0.08
5.80	0.61	0.00	0.01	8.40	1.04	0.10	0.08
5.85	0.62	0.01	0.01	8.45	1.05	0.10	0.08
5.90	0.62	0.01	0.01	8.50	1.06	0.10	0.09
5.95	0.63	0.01	0.01	8.55	1.07	0.11	0.09
6.00	0.64	0.01	0.01	8.60	1.08	0.11	0.09
6.05	0.64	0.01	0.01	8.65	1.10	0.11	0.09
6.10	0.65	0.01	0.01	8.70	1.11	0.12	0.09
6.15	0.66	0.01	0.01	8.75	1.12	0.12	0.10
6.20	0.66	0.01	0.02	8.80	1.13	0.13	0.10
6.25	0.67	0.01	0.02	8.85	1.14	0.13	0.10
6.30	0.68	0.01	0.02	8.90	1.15	0.13	0.10
6.35	0.68	0.01	0.02	8.95	1.16	0.14	0.11
6.40	0.69	0.01	0.02	9.00	1.17	0.14	0.11
6.45	0.70	0.01	0.02	9.05	1.18	0.15	0.11
6.50	0.71	0.02	0.02	9.10	1.20	0.15	0.11
6.55	0.71	0.02	0.02	9.15	1.21	0.16	0.11
6.60	0.72	0.02	0.02	9.20	1.22	0.16	0.12
6.65	0.73	0.02	0.03	9.25	1.23	0.17	0.12
6.70	0.74	0.02	0.03	9.30	1.25	0.17	0.13
6.75	0.74	0.02	0.03	9.35	1.26	0.18	0.13
6.80	0.75	0.02	0.03	9.40	1.27	0.18	0.13
6.85	0.76	0.02	0.03	9.45	1.29	0.19	0.14
6.90	0.77	0.03	0.03	9.50	1.30	0.20	0.14
6.95	0.78	0.03	0.03	9.55	1.32	0.20	0.15
7.00	0.78	0.03	0.03	9.60	1.33	0.21	0.15
7.05	0.79	0.03	0.04	9.65	1.35	0.22	0.16
7.10	0.80	0.03	0.04	9.70	1.36	0.22	0.16
7.15	0.81	0.03	0.04	9.75	1.38	0.23	0.17
7.20	0.82	0.04	0.04	9.80	1.40	0.24	0.17
7.25	0.83	0.04	0.04	9.85	1.41	0.24	0.18
7.30	0.83	0.04	0.04	9.90	1.43	0.25	0.18
7.35	0.84	0.04	0.04	9.95	1.45	0.26	0.19
7.40	0.85	0.04	0.05	10.00	1.46	0.27	0.20
7.45	0.86	0.05	0.05	10.05	1.48	0.28	0.20
7.50	0.87	0.05	0.05	10.10	1.50	0.29	0.21
7.55	0.88	0.05	0.05	10.15	1.52	0.29	0.21
7.60	0.89	0.05	0.05	10.20	1.54	0.30	0.22
7.65	0.90	0.05	0.05	10.25	1.56	0.31	0.23
7.70	0.91	0.06	0.06	10.30	1.58	0.32	0.23
7.75	0.91	0.06	0.06	10.35	1.59	0.33	0.24

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.61	0.34	0.25	13.00	6.10	3.87	1.76
10.45	1.63	0.35	0.26	13.05	6.13	3.90	1.63
10.50	1.65	0.36	0.26	13.10	6.17	3.93	1.50
10.55	1.68	0.38	0.27	13.15	6.20	3.96	1.39
10.60	1.70	0.39	0.28	13.20	6.23	3.99	1.29
10.65	1.73	0.40	0.29	13.25	6.25	4.01	1.20
10.70	1.75	0.42	0.30	13.30	6.28	4.03	1.12
10.75	1.78	0.43	0.31	13.35	6.30	4.06	1.06
10.80	1.80	0.45	0.33	13.40	6.33	4.08	1.00
10.85	1.83	0.46	0.34	13.45	6.35	4.10	0.94
10.90	1.86	0.48	0.36	13.50	6.38	4.12	0.89
10.95	1.90	0.50	0.38	13.55	6.40	4.14	0.84
11.00	1.93	0.52	0.40	13.60	6.42	4.16	0.80
11.05	1.96	0.54	0.42	13.65	6.44	4.18	0.75
11.10	2.00	0.56	0.44	13.70	6.45	4.19	0.71
11.15	2.04	0.59	0.47	13.75	6.47	4.21	0.68
11.20	2.08	0.61	0.50	13.80	6.49	4.23	0.65
11.25	2.13	0.64	0.53	13.85	6.51	4.25	0.62
11.30	2.17	0.67	0.56	13.90	6.53	4.26	0.60
11.35	2.22	0.70	0.60	13.95	6.55	4.28	0.58
11.40	2.27	0.73	0.64	14.00	6.57	4.30	0.57
11.45	2.32	0.77	0.68	14.05	6.58	4.31	0.55
11.50	2.37	0.80	0.72	14.10	6.60	4.33	0.54
11.55	2.45	0.86	0.77	14.15	6.62	4.34	0.52
11.60	2.54	0.91	0.83	14.20	6.63	4.36	0.51
11.65	2.62	0.97	0.92	14.25	6.65	4.37	0.50
11.70	2.71	1.03	1.03	14.30	6.67	4.39	0.49
11.75	2.82	1.12	1.14	14.35	6.68	4.40	0.48
11.80	2.94	1.21	1.27	14.40	6.70	4.42	0.47
11.85	3.10	1.33	1.43	14.45	6.71	4.43	0.46
11.90	3.27	1.45	1.63	14.50	6.73	4.44	0.45
11.95	3.55	1.67	1.90	14.55	6.74	4.46	0.44
12.00	3.83	1.90	2.26	14.60	6.76	4.47	0.44
12.05	4.30	2.29	2.80	14.65	6.77	4.48	0.43
12.10	4.76	2.69	3.54	14.70	6.78	4.49	0.42
12.15	4.93	2.83	4.49	14.75	6.80	4.51	0.41
12.20	5.09	2.97	**5.28**	14.80	6.81	4.52	0.40
12.25	5.21	3.07	**5.52**	14.85	6.82	4.53	0.39
12.30	5.32	3.18	5.36	14.90	6.83	4.54	0.39
12.35	5.41	3.25	5.05	14.95	6.85	4.55	0.38
12.40	5.49	3.33	4.71	15.00	6.86	4.56	0.37
12.45	5.58	3.40	4.37	15.05	6.87	4.57	0.36
12.50	5.66	3.47	4.03	15.10	6.88	4.58	0.35
12.55	5.71	3.52	3.74	15.15	6.89	4.59	0.35
12.60	5.76	3.57	3.46	15.20	6.90	4.60	0.34
12.65	5.81	3.61	3.18	15.25	6.91	4.61	0.33
12.70	5.86	3.66	2.90	15.30	6.92	4.62	0.33
12.75	5.90	3.70	2.65	15.35	6.93	4.63	0.32
12.80	5.95	3.74	2.44	15.40	6.95	4.64	0.32
12.85	5.99	3.77	2.24	15.45	6.96	4.65	0.31
12.90	6.03	3.81	2.07	15.50	6.97	4.66	0.31
12.95	6.07	3.84	1.91	15.55	6.98	4.67	0.30

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	6.99	4.68	0.30	18.20	7.42	5.08	0.18
15.65	7.00	4.69	0.30	18.25	7.43	5.09	0.18
15.70	7.01	4.70	0.29	18.30	7.43	5.09	0.18
15.75	7.02	4.71	0.29	18.35	7.44	5.10	0.18
15.80	7.03	4.72	0.29	18.40	7.44	5.11	0.18
15.85	7.04	4.73	0.29	18.45	7.45	5.11	0.18
15.90	7.05	4.74	0.28	18.50	7.46	5.12	0.18
15.95	7.06	4.75	0.28	18.55	7.46	5.12	0.18
16.00	7.07	4.76	0.28	18.60	7.47	5.13	0.17
16.05	7.08	4.77	0.28	18.65	7.48	5.14	0.17
16.10	7.09	4.78	0.27	18.70	7.48	5.14	0.17
16.15	7.10	4.78	0.27	18.75	7.49	5.15	0.17
16.20	7.11	4.79	0.27	18.80	7.49	5.15	0.17
16.25	7.12	4.80	0.27	18.85	7.50	5.16	0.17
16.30	7.12	4.81	0.27	18.90	7.51	5.16	0.17
16.35	7.13	4.82	0.26	18.95	7.51	5.17	0.17
16.40	7.14	4.83	0.26	19.00	7.52	5.18	0.17
16.45	7.15	4.84	0.26	19.05	7.53	5.18	0.17
16.50	7.16	4.84	0.26	19.10	7.53	5.19	0.17
16.55	7.17	4.85	0.25	19.15	7.54	5.19	0.17
16.60	7.18	4.86	0.25	19.20	7.54	5.20	0.17
16.65	7.19	4.87	0.25	19.25	7.55	5.20	0.17
16.70	7.20	4.88	0.25	19.30	7.56	5.21	0.17
16.75	7.20	4.88	0.25	19.35	7.56	5.22	0.16
16.80	7.21	4.89	0.24	19.40	7.57	5.22	0.16
16.85	7.22	4.90	0.24	19.45	7.57	5.23	0.16
16.90	7.23	4.91	0.24	19.50	7.58	5.23	0.16
16.95	7.24	4.92	0.24	19.55	7.58	5.24	0.16
17.00	7.25	4.92	0.24	19.60	7.59	5.24	0.16
17.05	7.25	4.93	0.23	19.65	7.60	5.25	0.16
17.10	7.26	4.94	0.23	19.70	7.60	5.25	0.16
17.15	7.27	4.94	0.23	19.75	7.61	5.26	0.16
17.20	7.28	4.95	0.23	19.80	7.61	5.26	0.16
17.25	7.29	4.96	0.22	19.85	7.62	5.27	0.16
17.30	7.29	4.97	0.22	19.90	7.63	5.27	0.16
17.35	7.30	4.97	0.22	19.95	7.63	5.28	0.16
17.40	7.31	4.98	0.22	20.00	7.64	5.29	0.16
17.45	7.32	4.99	0.22	20.05	7.64	5.29	0.16
17.50	7.32	4.99	0.21	20.10	7.65	5.30	0.16
17.55	7.33	5.00	0.21	20.15	7.65	5.30	0.16
17.60	7.34	5.01	0.21	20.20	7.66	5.31	0.16
17.65	7.35	5.01	0.21	20.25	7.67	5.31	0.16
17.70	7.35	5.02	0.21	20.30	7.67	5.32	0.15
17.75	7.36	5.03	0.20	20.35	7.68	5.32	0.15
17.80	7.37	5.03	0.20	20.40	7.68	5.33	0.15
17.85	7.37	5.04	0.20	20.45	7.69	5.33	0.15
17.90	7.38	5.05	0.20	20.50	7.69	5.34	0.15
17.95	7.39	5.05	0.20	20.55	7.70	5.34	0.15
18.00	7.39	5.06	0.19	20.60	7.70	5.35	0.15
18.05	7.40	5.06	0.19	20.65	7.71	5.35	0.15
18.10	7.41	5.07	0.19	20.70	7.71	5.36	0.15
18.15	7.41	5.08	0.19	20.75	7.72	5.36	0.15

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

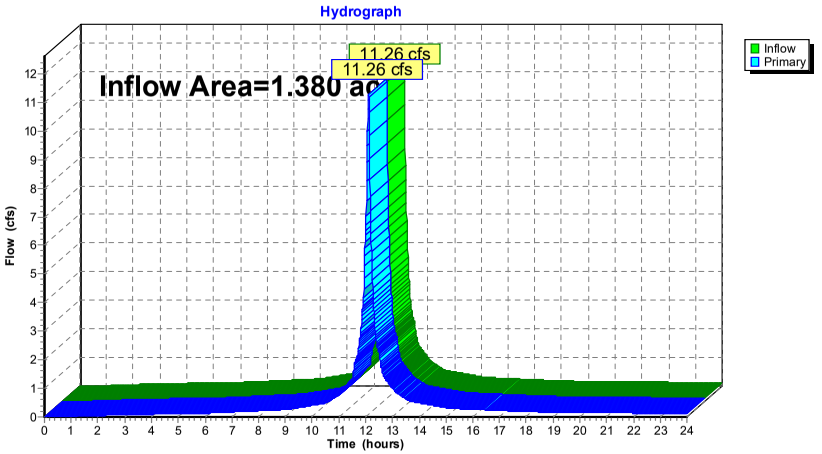
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	7.73	5.37	0.15	23.40	7.98	5.60	0.12
20.85	7.73	5.37	0.15	23.45	7.98	5.61	0.12
20.90	7.74	5.38	0.15	23.50	7.99	5.61	0.12
20.95	7.74	5.38	0.15	23.55	7.99	5.62	0.12
21.00	7.75	5.39	0.15	23.60	7.99	5.62	0.12
21.05	7.75	5.39	0.15	23.65	8.00	5.62	0.12
21.10	7.76	5.40	0.15	23.70	8.00	5.63	0.12
21.15	7.76	5.40	0.15	23.75	8.01	5.63	0.12
21.20	7.77	5.41	0.15	23.80	8.01	5.64	0.12
21.25	7.77	5.41	0.14	23.85	8.02	5.64	0.12
21.30	7.78	5.42	0.14	23.90	8.02	5.64	0.12
21.35	7.78	5.42	0.14	23.95	8.02	5.65	0.12
21.40	7.79	5.43	0.14	24.00	**8.03**	**5.65**	0.12
21.45	7.79	5.43	0.14				
21.50	7.80	5.44	0.14				
21.55	7.80	5.44	0.14				
21.60	7.81	5.45	0.14				
21.65	7.81	5.45	0.14				
21.70	7.82	5.46	0.14				
21.75	7.82	5.46	0.14				
21.80	7.83	5.46	0.14				
21.85	7.83	5.47	0.14				
21.90	7.84	5.47	0.14				
21.95	7.84	5.48	0.14				
22.00	7.85	5.48	0.14				
22.05	7.85	5.49	0.14				
22.10	7.86	5.49	0.14				
22.15	7.86	5.50	0.14				
22.20	7.87	5.50	0.13				
22.25	7.87	5.51	0.13				
22.30	7.88	5.51	0.13				
22.35	7.88	5.51	0.13				
22.40	7.89	5.52	0.13				
22.45	7.89	5.52	0.13				
22.50	7.90	5.53	0.13				
22.55	7.90	5.53	0.13				
22.60	7.91	5.54	0.13				
22.65	7.91	5.54	0.13				
22.70	7.91	5.55	0.13				
22.75	7.92	5.55	0.13				
22.80	7.92	5.55	0.13				
22.85	7.93	5.56	0.13				
22.90	7.93	5.56	0.13				
22.95	7.94	5.57	0.13				
23.00	7.94	5.57	0.13				
23.05	7.95	5.58	0.13				
23.10	7.95	5.58	0.13				
23.15	7.96	5.58	0.12				
23.20	7.96	5.59	0.12				
23.25	7.96	5.59	0.12				
23.30	7.97	5.60	0.12				
23.35	7.97	5.60	0.12				

Summary for Link E1A: E1A

Inflow Area = 1.380 ac, 54.35% Impervious, Inflow Depth > 7.25" for 25YR PROJECTED event
Inflow = 11.26 cfs @ 12.11 hrs, Volume= 0.834 af
Primary = 11.26 cfs @ 12.11 hrs, Volume= 0.834 af, Atten= 0%, Lag= 0.0 min
Routed to Link EPOI-1 : EPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link E1A: E1A



Hydrograph for Link E1A: E1A

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.07	0.00	0.07
0.05	0.00	0.00	0.00	2.65	0.07	0.00	0.07
0.10	0.00	0.00	0.00	2.70	0.07	0.00	0.07
0.15	0.00	0.00	0.00	2.75	0.07	0.00	0.07
0.20	0.00	0.00	0.00	2.80	0.07	0.00	0.07
0.25	0.00	0.00	0.00	2.85	0.07	0.00	0.07
0.30	0.00	0.00	0.00	2.90	0.07	0.00	0.07
0.35	0.00	0.00	0.00	2.95	0.07	0.00	0.07
0.40	0.00	0.00	0.00	3.00	0.08	0.00	0.08
0.45	0.00	0.00	0.00	3.05	0.08	0.00	0.08
0.50	0.00	0.00	0.00	3.10	0.08	0.00	0.08
0.55	0.00	0.00	0.00	3.15	0.08	0.00	0.08
0.60	0.00	0.00	0.00	3.20	0.08	0.00	0.08
0.65	0.00	0.00	0.00	3.25	0.08	0.00	0.08
0.70	0.00	0.00	0.00	3.30	0.08	0.00	0.08
0.75	0.00	0.00	0.00	3.35	0.08	0.00	0.08
0.80	0.00	0.00	0.00	3.40	0.08	0.00	0.08
0.85	0.00	0.00	0.00	3.45	0.09	0.00	0.09
0.90	0.01	0.00	0.01	3.50	0.09	0.00	0.09
0.95	0.01	0.00	0.01	3.55	0.09	0.00	0.09
1.00	0.01	0.00	0.01	3.60	0.09	0.00	0.09
1.05	0.01	0.00	0.01	3.65	0.09	0.00	0.09
1.10	0.02	0.00	0.02	3.70	0.09	0.00	0.09
1.15	0.02	0.00	0.02	3.75	0.09	0.00	0.09
1.20	0.02	0.00	0.02	3.80	0.09	0.00	0.09
1.25	0.02	0.00	0.02	3.85	0.09	0.00	0.09
1.30	0.02	0.00	0.02	3.90	0.09	0.00	0.09
1.35	0.03	0.00	0.03	3.95	0.09	0.00	0.09
1.40	0.03	0.00	0.03	4.00	0.10	0.00	0.10
1.45	0.03	0.00	0.03	4.05	0.10	0.00	0.10
1.50	0.03	0.00	0.03	4.10	0.10	0.00	0.10
1.55	0.03	0.00	0.03	4.15	0.10	0.00	0.10
1.60	0.04	0.00	0.04	4.20	0.10	0.00	0.10
1.65	0.04	0.00	0.04	4.25	0.10	0.00	0.10
1.70	0.04	0.00	0.04	4.30	0.10	0.00	0.10
1.75	0.04	0.00	0.04	4.35	0.10	0.00	0.10
1.80	0.04	0.00	0.04	4.40	0.10	0.00	0.10
1.85	0.04	0.00	0.04	4.45	0.10	0.00	0.10
1.90	0.05	0.00	0.05	4.50	0.10	0.00	0.10
1.95	0.05	0.00	0.05	4.55	0.10	0.00	0.10
2.00	0.05	0.00	0.05	4.60	0.11	0.00	0.11
2.05	0.05	0.00	0.05	4.65	0.11	0.00	0.11
2.10	0.05	0.00	0.05	4.70	0.11	0.00	0.11
2.15	0.05	0.00	0.05	4.75	0.11	0.00	0.11
2.20	0.06	0.00	0.06	4.80	0.11	0.00	0.11
2.25	0.06	0.00	0.06	4.85	0.11	0.00	0.11
2.30	0.06	0.00	0.06	4.90	0.11	0.00	0.11
2.35	0.06	0.00	0.06	4.95	0.11	0.00	0.11
2.40	0.06	0.00	0.06	5.00	0.11	0.00	0.11
2.45	0.06	0.00	0.06	5.05	0.11	0.00	0.11
2.50	0.06	0.00	0.06	5.10	0.11	0.00	0.11
2.55	0.06	0.00	0.06	5.15	0.11	0.00	0.11

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.11	0.00	0.11	7.80	0.20	0.00	0.20
5.25	0.12	0.00	0.12	7.85	0.21	0.00	0.21
5.30	0.12	0.00	0.12	7.90	0.21	0.00	0.21
5.35	0.12	0.00	0.12	7.95	0.21	0.00	0.21
5.40	0.12	0.00	0.12	8.00	0.21	0.00	0.21
5.45	0.12	0.00	0.12	8.05	0.22	0.00	0.22
5.50	0.12	0.00	0.12	8.10	0.22	0.00	0.22
5.55	0.12	0.00	0.12	8.15	0.22	0.00	0.22
5.60	0.12	0.00	0.12	8.20	0.22	0.00	0.22
5.65	0.12	0.00	0.12	8.25	0.23	0.00	0.23
5.70	0.12	0.00	0.12	8.30	0.23	0.00	0.23
5.75	0.12	0.00	0.12	8.35	0.23	0.00	0.23
5.80	0.13	0.00	0.13	8.40	0.23	0.00	0.23
5.85	0.13	0.00	0.13	8.45	0.23	0.00	0.23
5.90	0.13	0.00	0.13	8.50	0.24	0.00	0.24
5.95	0.13	0.00	0.13	8.55	0.24	0.00	0.24
6.00	0.13	0.00	0.13	8.60	0.24	0.00	0.24
6.05	0.13	0.00	0.13	8.65	0.24	0.00	0.24
6.10	0.13	0.00	0.13	8.70	0.25	0.00	0.25
6.15	0.13	0.00	0.13	8.75	0.25	0.00	0.25
6.20	0.14	0.00	0.14	8.80	0.25	0.00	0.25
6.25	0.14	0.00	0.14	8.85	0.25	0.00	0.25
6.30	0.14	0.00	0.14	8.90	0.26	0.00	0.26
6.35	0.14	0.00	0.14	8.95	0.26	0.00	0.26
6.40	0.14	0.00	0.14	9.00	0.26	0.00	0.26
6.45	0.15	0.00	0.15	9.05	0.27	0.00	0.27
6.50	0.15	0.00	0.15	9.10	0.27	0.00	0.27
6.55	0.15	0.00	0.15	9.15	0.28	0.00	0.28
6.60	0.15	0.00	0.15	9.20	0.29	0.00	0.29
6.65	0.16	0.00	0.16	9.25	0.30	0.00	0.30
6.70	0.16	0.00	0.16	9.30	0.30	0.00	0.30
6.75	0.16	0.00	0.16	9.35	0.31	0.00	0.31
6.80	0.16	0.00	0.16	9.40	0.32	0.00	0.32
6.85	0.16	0.00	0.16	9.45	0.33	0.00	0.33
6.90	0.17	0.00	0.17	9.50	0.33	0.00	0.33
6.95	0.17	0.00	0.17	9.55	0.34	0.00	0.34
7.00	0.17	0.00	0.17	9.60	0.35	0.00	0.35
7.05	0.17	0.00	0.17	9.65	0.36	0.00	0.36
7.10	0.17	0.00	0.17	9.70	0.36	0.00	0.36
7.15	0.18	0.00	0.18	9.75	0.37	0.00	0.37
7.20	0.18	0.00	0.18	9.80	0.38	0.00	0.38
7.25	0.18	0.00	0.18	9.85	0.39	0.00	0.39
7.30	0.18	0.00	0.18	9.90	0.40	0.00	0.40
7.35	0.18	0.00	0.18	9.95	0.40	0.00	0.40
7.40	0.19	0.00	0.19	10.00	0.41	0.00	0.41
7.45	0.19	0.00	0.19	10.05	0.42	0.00	0.42
7.50	0.19	0.00	0.19	10.10	0.43	0.00	0.43
7.55	0.19	0.00	0.19	10.15	0.44	0.00	0.44
7.60	0.20	0.00	0.20	10.20	0.44	0.00	0.44
7.65	0.20	0.00	0.20	10.25	0.45	0.00	0.45
7.70	0.20	0.00	0.20	10.30	0.46	0.00	0.46
7.75	0.20	0.00	0.20	10.35	0.47	0.00	0.47

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.48	0.00	0.48	13.00	1.02	0.00	1.02
10.45	0.49	0.00	0.49	13.05	0.96	0.00	0.96
10.50	0.49	0.00	0.49	13.10	0.90	0.00	0.90
10.55	0.52	0.00	0.52	13.15	0.86	0.00	0.86
10.60	0.54	0.00	0.54	13.20	0.83	0.00	0.83
10.65	0.57	0.00	0.57	13.25	0.79	0.00	0.79
10.70	0.60	0.00	0.60	13.30	0.76	0.00	0.76
10.75	0.63	0.00	0.63	13.35	0.73	0.00	0.73
10.80	0.66	0.00	0.66	13.40	0.70	0.00	0.70
10.85	0.69	0.00	0.69	13.45	0.66	0.00	0.66
10.90	0.72	0.00	0.72	13.50	0.64	0.00	0.64
10.95	0.75	0.00	0.75	13.55	0.60	0.00	0.60
11.00	0.78	0.00	0.78	13.60	0.57	0.00	0.57
11.05	0.83	0.00	0.83	13.65	0.56	0.00	0.56
11.10	0.88	0.00	0.88	13.70	0.54	0.00	0.54
11.15	0.94	0.00	0.94	13.75	0.53	0.00	0.53
11.20	0.99	0.00	0.99	13.80	0.53	0.00	0.53
11.25	1.05	0.00	1.05	13.85	0.52	0.00	0.52
11.30	1.10	0.00	1.10	13.90	0.51	0.00	0.51
11.35	1.16	0.00	1.16	13.95	0.50	0.00	0.50
11.40	1.22	0.00	1.22	14.00	0.49	0.00	0.49
11.45	1.27	0.00	1.27	14.05	0.48	0.00	0.48
11.50	1.31	0.00	1.31	14.10	0.48	0.00	0.48
11.55	1.60	0.00	1.60	14.15	0.47	0.00	0.47
11.60	1.88	0.00	1.88	14.20	0.46	0.00	0.46
11.65	2.05	0.00	2.05	14.25	0.45	0.00	0.45
11.70	2.15	0.00	2.15	14.30	0.44	0.00	0.44
11.75	2.50	0.00	2.50	14.35	0.43	0.00	0.43
11.80	2.82	0.00	2.82	14.40	0.43	0.00	0.43
11.85	3.40	0.00	3.40	14.45	0.42	0.00	0.42
11.90	3.91	0.00	3.91	14.50	0.41	0.00	0.41
11.95	5.27	0.00	5.27	14.55	0.40	0.00	0.40
12.00	6.54	0.00	6.54	14.60	0.39	0.00	0.39
12.05	8.93	0.00	8.93	14.65	0.39	0.00	0.39
12.10	**11.06**	0.00	**11.06**	14.70	0.38	0.00	0.38
12.15	**9.02**	0.00	**9.02**	14.75	0.37	0.00	0.37
12.20	6.41	0.00	6.41	14.80	0.36	0.00	0.36
12.25	4.79	0.00	4.79	14.85	0.35	0.00	0.35
12.30	3.80	0.00	3.80	14.90	0.35	0.00	0.35
12.35	3.09	0.00	3.09	14.95	0.34	0.00	0.34
12.40	2.62	0.00	2.62	15.00	0.33	0.00	0.33
12.45	2.38	0.00	2.38	15.05	0.32	0.00	0.32
12.50	2.27	0.00	2.27	15.10	0.31	0.00	0.31
12.55	1.94	0.00	1.94	15.15	0.31	0.00	0.31
12.60	1.64	0.00	1.64	15.20	0.31	0.00	0.31
12.65	1.48	0.00	1.48	15.25	0.30	0.00	0.30
12.70	1.39	0.00	1.39	15.30	0.30	0.00	0.30
12.75	1.31	0.00	1.31	15.35	0.30	0.00	0.30
12.80	1.26	0.00	1.26	15.40	0.30	0.00	0.30
12.85	1.19	0.00	1.19	15.45	0.29	0.00	0.29
12.90	1.14	0.00	1.14	15.50	0.29	0.00	0.29
12.95	1.07	0.00	1.07	15.55	0.29	0.00	0.29

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.29	0.00	0.29	18.20	0.18	0.00	0.18
15.65	0.29	0.00	0.29	18.25	0.18	0.00	0.18
15.70	0.28	0.00	0.28	18.30	0.18	0.00	0.18
15.75	0.28	0.00	0.28	18.35	0.17	0.00	0.17
15.80	0.28	0.00	0.28	18.40	0.17	0.00	0.17
15.85	0.28	0.00	0.28	18.45	0.17	0.00	0.17
15.90	0.27	0.00	0.27	18.50	0.17	0.00	0.17
15.95	0.27	0.00	0.27	18.55	0.17	0.00	0.17
16.00	0.27	0.00	0.27	18.60	0.17	0.00	0.17
16.05	0.27	0.00	0.27	18.65	0.17	0.00	0.17
16.10	0.27	0.00	0.27	18.70	0.17	0.00	0.17
16.15	0.26	0.00	0.26	18.75	0.17	0.00	0.17
16.20	0.26	0.00	0.26	18.80	0.17	0.00	0.17
16.25	0.26	0.00	0.26	18.85	0.17	0.00	0.17
16.30	0.26	0.00	0.26	18.90	0.17	0.00	0.17
16.35	0.25	0.00	0.25	18.95	0.17	0.00	0.17
16.40	0.25	0.00	0.25	19.00	0.17	0.00	0.17
16.45	0.25	0.00	0.25	19.05	0.17	0.00	0.17
16.50	0.25	0.00	0.25	19.10	0.17	0.00	0.17
16.55	0.25	0.00	0.25	19.15	0.17	0.00	0.17
16.60	0.24	0.00	0.24	19.20	0.17	0.00	0.17
16.65	0.24	0.00	0.24	19.25	0.16	0.00	0.16
16.70	0.24	0.00	0.24	19.30	0.16	0.00	0.16
16.75	0.24	0.00	0.24	19.35	0.16	0.00	0.16
16.80	0.23	0.00	0.23	19.40	0.16	0.00	0.16
16.85	0.23	0.00	0.23	19.45	0.16	0.00	0.16
16.90	0.23	0.00	0.23	19.50	0.16	0.00	0.16
16.95	0.23	0.00	0.23	19.55	0.16	0.00	0.16
17.00	0.23	0.00	0.23	19.60	0.16	0.00	0.16
17.05	0.22	0.00	0.22	19.65	0.16	0.00	0.16
17.10	0.22	0.00	0.22	19.70	0.16	0.00	0.16
17.15	0.22	0.00	0.22	19.75	0.16	0.00	0.16
17.20	0.22	0.00	0.22	19.80	0.16	0.00	0.16
17.25	0.22	0.00	0.22	19.85	0.16	0.00	0.16
17.30	0.21	0.00	0.21	19.90	0.16	0.00	0.16
17.35	0.21	0.00	0.21	19.95	0.16	0.00	0.16
17.40	0.21	0.00	0.21	20.00	0.16	0.00	0.16
17.45	0.21	0.00	0.21	20.05	0.16	0.00	0.16
17.50	0.20	0.00	0.20	20.10	0.16	0.00	0.16
17.55	0.20	0.00	0.20	20.15	0.15	0.00	0.15
17.60	0.20	0.00	0.20	20.20	0.15	0.00	0.15
17.65	0.20	0.00	0.20	20.25	0.15	0.00	0.15
17.70	0.20	0.00	0.20	20.30	0.15	0.00	0.15
17.75	0.19	0.00	0.19	20.35	0.15	0.00	0.15
17.80	0.19	0.00	0.19	20.40	0.15	0.00	0.15
17.85	0.19	0.00	0.19	20.45	0.15	0.00	0.15
17.90	0.19	0.00	0.19	20.50	0.15	0.00	0.15
17.95	0.18	0.00	0.18	20.55	0.15	0.00	0.15
18.00	0.18	0.00	0.18	20.60	0.15	0.00	0.15
18.05	0.18	0.00	0.18	20.65	0.15	0.00	0.15
18.10	0.18	0.00	0.18	20.70	0.15	0.00	0.15
18.15	0.18	0.00	0.18	20.75	0.15	0.00	0.15

Hydrograph for Link E1A: E1A (continued)

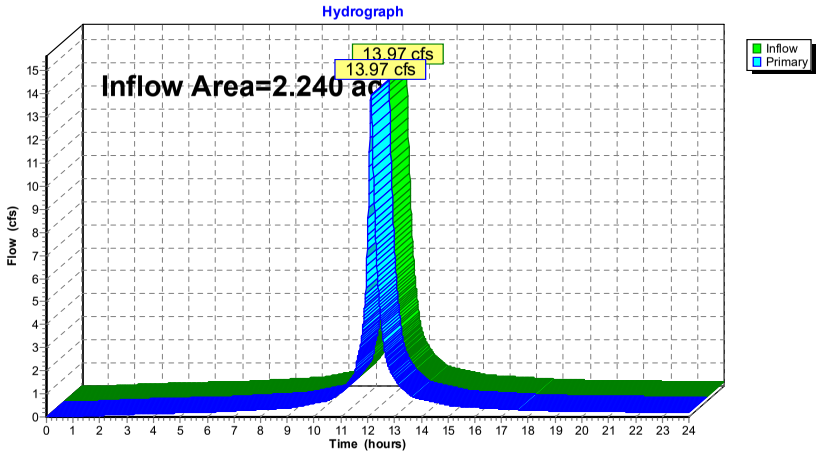
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.15	0.00	0.15	23.40	0.12	0.00	0.12
20.85	0.15	0.00	0.15	23.45	0.12	0.00	0.12
20.90	0.15	0.00	0.15	23.50	0.12	0.00	0.12
20.95	0.15	0.00	0.15	23.55	0.12	0.00	0.12
21.00	0.15	0.00	0.15	23.60	0.12	0.00	0.12
21.05	0.15	0.00	0.15	23.65	0.12	0.00	0.12
21.10	0.14	0.00	0.14	23.70	0.12	0.00	0.12
21.15	0.14	0.00	0.14	23.75	0.12	0.00	0.12
21.20	0.14	0.00	0.14	23.80	0.12	0.00	0.12
21.25	0.14	0.00	0.14	23.85	0.11	0.00	0.11
21.30	0.14	0.00	0.14	23.90	0.11	0.00	0.11
21.35	0.14	0.00	0.14	23.95	0.12	0.00	0.12
21.40	0.14	0.00	0.14	24.00	0.13	0.00	0.13
21.45	0.14	0.00	0.14				
21.50	0.14	0.00	0.14				
21.55	0.14	0.00	0.14				
21.60	0.14	0.00	0.14				
21.65	0.14	0.00	0.14				
21.70	0.14	0.00	0.14				
21.75	0.14	0.00	0.14				
21.80	0.14	0.00	0.14				
21.85	0.14	0.00	0.14				
21.90	0.14	0.00	0.14				
21.95	0.14	0.00	0.14				
22.00	0.13	0.00	0.13				
22.05	0.13	0.00	0.13				
22.10	0.13	0.00	0.13				
22.15	0.13	0.00	0.13				
22.20	0.13	0.00	0.13				
22.25	0.13	0.00	0.13				
22.30	0.13	0.00	0.13				
22.35	0.13	0.00	0.13				
22.40	0.13	0.00	0.13				
22.45	0.13	0.00	0.13				
22.50	0.13	0.00	0.13				
22.55	0.13	0.00	0.13				
22.60	0.13	0.00	0.13				
22.65	0.13	0.00	0.13				
22.70	0.13	0.00	0.13				
22.75	0.13	0.00	0.13				
22.80	0.13	0.00	0.13				
22.85	0.13	0.00	0.13				
22.90	0.12	0.00	0.12				
22.95	0.12	0.00	0.12				
23.00	0.12	0.00	0.12				
23.05	0.12	0.00	0.12				
23.10	0.12	0.00	0.12				
23.15	0.12	0.00	0.12				
23.20	0.12	0.00	0.12				
23.25	0.12	0.00	0.12				
23.30	0.12	0.00	0.12				
23.35	0.12	0.00	0.12				

Summary for Link E1B: E1B

Inflow Area = 2.240 ac, 27.23% Impervious, Inflow Depth > 6.73" for 25YR PROJECTED event
Inflow = 13.97 cfs @ 12.12 hrs, Volume= 1.256 af
Primary = 13.97 cfs @ 12.12 hrs, Volume= 1.256 af, Atten= 0%, Lag= 0.0 min
Routed to Link EPOI-1 : EPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link E1B: E1B



Hydrograph for Link E1B: E1B

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.09	0.00	0.09
0.05	0.00	0.00	0.00	2.65	0.10	0.00	0.10
0.10	0.00	0.00	0.00	2.70	0.10	0.00	0.10
0.15	0.00	0.00	0.00	2.75	0.10	0.00	0.10
0.20	0.00	0.00	0.00	2.80	0.10	0.00	0.10
0.25	0.00	0.00	0.00	2.85	0.10	0.00	0.10
0.30	0.00	0.00	0.00	2.90	0.11	0.00	0.11
0.35	0.00	0.00	0.00	2.95	0.11	0.00	0.11
0.40	0.00	0.00	0.00	3.00	0.11	0.00	0.11
0.45	0.00	0.00	0.00	3.05	0.11	0.00	0.11
0.50	0.00	0.00	0.00	3.10	0.11	0.00	0.11
0.55	0.00	0.00	0.00	3.15	0.12	0.00	0.12
0.60	0.00	0.00	0.00	3.20	0.12	0.00	0.12
0.65	0.00	0.00	0.00	3.25	0.12	0.00	0.12
0.70	0.00	0.00	0.00	3.30	0.12	0.00	0.12
0.75	0.00	0.00	0.00	3.35	0.12	0.00	0.12
0.80	0.01	0.00	0.01	3.40	0.13	0.00	0.13
0.85	0.01	0.00	0.01	3.45	0.13	0.00	0.13
0.90	0.01	0.00	0.01	3.50	0.13	0.00	0.13
0.95	0.01	0.00	0.01	3.55	0.13	0.00	0.13
1.00	0.01	0.00	0.01	3.60	0.13	0.00	0.13
1.05	0.01	0.00	0.01	3.65	0.13	0.00	0.13
1.10	0.01	0.00	0.01	3.70	0.14	0.00	0.14
1.15	0.01	0.00	0.01	3.75	0.14	0.00	0.14
1.20	0.02	0.00	0.02	3.80	0.14	0.00	0.14
1.25	0.02	0.00	0.02	3.85	0.14	0.00	0.14
1.30	0.02	0.00	0.02	3.90	0.14	0.00	0.14
1.35	0.03	0.00	0.03	3.95	0.14	0.00	0.14
1.40	0.03	0.00	0.03	4.00	0.15	0.00	0.15
1.45	0.03	0.00	0.03	4.05	0.15	0.00	0.15
1.50	0.04	0.00	0.04	4.10	0.15	0.00	0.15
1.55	0.04	0.00	0.04	4.15	0.15	0.00	0.15
1.60	0.04	0.00	0.04	4.20	0.15	0.00	0.15
1.65	0.05	0.00	0.05	4.25	0.15	0.00	0.15
1.70	0.05	0.00	0.05	4.30	0.16	0.00	0.16
1.75	0.05	0.00	0.05	4.35	0.16	0.00	0.16
1.80	0.05	0.00	0.05	4.40	0.16	0.00	0.16
1.85	0.06	0.00	0.06	4.45	0.16	0.00	0.16
1.90	0.06	0.00	0.06	4.50	0.16	0.00	0.16
1.95	0.06	0.00	0.06	4.55	0.16	0.00	0.16
2.00	0.07	0.00	0.07	4.60	0.16	0.00	0.16
2.05	0.07	0.00	0.07	4.65	0.16	0.00	0.16
2.10	0.07	0.00	0.07	4.70	0.17	0.00	0.17
2.15	0.07	0.00	0.07	4.75	0.17	0.00	0.17
2.20	0.08	0.00	0.08	4.80	0.17	0.00	0.17
2.25	0.08	0.00	0.08	4.85	0.17	0.00	0.17
2.30	0.08	0.00	0.08	4.90	0.17	0.00	0.17
2.35	0.08	0.00	0.08	4.95	0.17	0.00	0.17
2.40	0.08	0.00	0.08	5.00	0.17	0.00	0.17
2.45	0.09	0.00	0.09	5.05	0.18	0.00	0.18
2.50	0.09	0.00	0.09	5.10	0.18	0.00	0.18
2.55	0.09	0.00	0.09	5.15	0.18	0.00	0.18

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.18	0.00	0.18	7.80	0.31	0.00	0.31
5.25	0.18	0.00	0.18	7.85	0.31	0.00	0.31
5.30	0.18	0.00	0.18	7.90	0.32	0.00	0.32
5.35	0.18	0.00	0.18	7.95	0.32	0.00	0.32
5.40	0.18	0.00	0.18	8.00	0.32	0.00	0.32
5.45	0.19	0.00	0.19	8.05	0.33	0.00	0.33
5.50	0.19	0.00	0.19	8.10	0.33	0.00	0.33
5.55	0.19	0.00	0.19	8.15	0.33	0.00	0.33
5.60	0.19	0.00	0.19	8.20	0.34	0.00	0.34
5.65	0.19	0.00	0.19	8.25	0.34	0.00	0.34
5.70	0.19	0.00	0.19	8.30	0.34	0.00	0.34
5.75	0.19	0.00	0.19	8.35	0.34	0.00	0.34
5.80	0.19	0.00	0.19	8.40	0.35	0.00	0.35
5.85	0.20	0.00	0.20	8.45	0.35	0.00	0.35
5.90	0.20	0.00	0.20	8.50	0.35	0.00	0.35
5.95	0.20	0.00	0.20	8.55	0.36	0.00	0.36
6.00	0.20	0.00	0.20	8.60	0.36	0.00	0.36
6.05	0.20	0.00	0.20	8.65	0.36	0.00	0.36
6.10	0.20	0.00	0.20	8.70	0.37	0.00	0.37
6.15	0.21	0.00	0.21	8.75	0.37	0.00	0.37
6.20	0.21	0.00	0.21	8.80	0.37	0.00	0.37
6.25	0.21	0.00	0.21	8.85	0.38	0.00	0.38
6.30	0.21	0.00	0.21	8.90	0.38	0.00	0.38
6.35	0.22	0.00	0.22	8.95	0.38	0.00	0.38
6.40	0.22	0.00	0.22	9.00	0.39	0.00	0.39
6.45	0.22	0.00	0.22	9.05	0.39	0.00	0.39
6.50	0.23	0.00	0.23	9.10	0.40	0.00	0.40
6.55	0.23	0.00	0.23	9.15	0.41	0.00	0.41
6.60	0.23	0.00	0.23	9.20	0.42	0.00	0.42
6.65	0.24	0.00	0.24	9.25	0.43	0.00	0.43
6.70	0.24	0.00	0.24	9.30	0.44	0.00	0.44
6.75	0.24	0.00	0.24	9.35	0.45	0.00	0.45
6.80	0.25	0.00	0.25	9.40	0.46	0.00	0.46
6.85	0.25	0.00	0.25	9.45	0.47	0.00	0.47
6.90	0.25	0.00	0.25	9.50	0.48	0.00	0.48
6.95	0.26	0.00	0.26	9.55	0.49	0.00	0.49
7.00	0.26	0.00	0.26	9.60	0.51	0.00	0.51
7.05	0.26	0.00	0.26	9.65	0.52	0.00	0.52
7.10	0.27	0.00	0.27	9.70	0.53	0.00	0.53
7.15	0.27	0.00	0.27	9.75	0.54	0.00	0.54
7.20	0.27	0.00	0.27	9.80	0.55	0.00	0.55
7.25	0.27	0.00	0.27	9.85	0.56	0.00	0.56
7.30	0.28	0.00	0.28	9.90	0.57	0.00	0.57
7.35	0.28	0.00	0.28	9.95	0.58	0.00	0.58
7.40	0.28	0.00	0.28	10.00	0.60	0.00	0.60
7.45	0.29	0.00	0.29	10.05	0.61	0.00	0.61
7.50	0.29	0.00	0.29	10.10	0.62	0.00	0.62
7.55	0.29	0.00	0.29	10.15	0.63	0.00	0.63
7.60	0.30	0.00	0.30	10.20	0.64	0.00	0.64
7.65	0.30	0.00	0.30	10.25	0.65	0.00	0.65
7.70	0.30	0.00	0.30	10.30	0.66	0.00	0.66
7.75	0.31	0.00	0.31	10.35	0.68	0.00	0.68

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.69	0.00	0.69	13.00	1.67	0.00	1.67
10.45	0.70	0.00	0.70	13.05	1.58	0.00	1.58
10.50	0.71	0.00	0.71	13.10	1.49	0.00	1.49
10.55	0.73	0.00	0.73	13.15	1.41	0.00	1.41
10.60	0.76	0.00	0.76	13.20	1.34	0.00	1.34
10.65	0.79	0.00	0.79	13.25	1.29	0.00	1.29
10.70	0.83	0.00	0.83	13.30	1.23	0.00	1.23
10.75	0.87	0.00	0.87	13.35	1.18	0.00	1.18
10.80	0.91	0.00	0.91	13.40	1.13	0.00	1.13
10.85	0.95	0.00	0.95	13.45	1.08	0.00	1.08
10.90	1.00	0.00	1.00	13.50	1.03	0.00	1.03
10.95	1.04	0.00	1.04	13.55	0.98	0.00	0.98
11.00	1.08	0.00	1.08	13.60	0.93	0.00	0.93
11.05	1.14	0.00	1.14	13.65	0.90	0.00	0.90
11.10	1.21	0.00	1.21	13.70	0.87	0.00	0.87
11.15	1.28	0.00	1.28	13.75	0.85	0.00	0.85
11.20	1.35	0.00	1.35	13.80	0.83	0.00	0.83
11.25	1.43	0.00	1.43	13.85	0.81	0.00	0.81
11.30	1.51	0.00	1.51	13.90	0.80	0.00	0.80
11.35	1.60	0.00	1.60	13.95	0.78	0.00	0.78
11.40	1.68	0.00	1.68	14.00	0.77	0.00	0.77
11.45	1.76	0.00	1.76	14.05	0.76	0.00	0.76
11.50	1.83	0.00	1.83	14.10	0.75	0.00	0.75
11.55	2.06	0.00	2.06	14.15	0.73	0.00	0.73
11.60	2.41	0.00	2.41	14.20	0.72	0.00	0.72
11.65	2.68	0.00	2.68	14.25	0.71	0.00	0.71
11.70	2.89	0.00	2.89	14.30	0.70	0.00	0.70
11.75	3.21	0.00	3.21	14.35	0.68	0.00	0.68
11.80	3.67	0.00	3.67	14.40	0.67	0.00	0.67
11.85	4.26	0.00	4.26	14.45	0.66	0.00	0.66
11.90	4.98	0.00	4.98	14.50	0.65	0.00	0.65
11.95	6.21	0.00	6.21	14.55	0.63	0.00	0.63
12.00	7.90	0.00	7.90	14.60	0.62	0.00	0.62
12.05	10.24	0.00	10.24	14.65	0.61	0.00	0.61
12.10	**13.26**	0.00	**13.26**	14.70	0.60	0.00	0.60
12.15	**13.46**	0.00	**13.46**	14.75	0.58	0.00	0.58
12.20	11.16	0.00	11.16	14.80	0.57	0.00	0.57
12.25	9.25	0.00	9.25	14.85	0.56	0.00	0.56
12.30	7.72	0.00	7.72	14.90	0.55	0.00	0.55
12.35	6.51	0.00	6.51	14.95	0.53	0.00	0.53
12.40	5.46	0.00	5.46	15.00	0.52	0.00	0.52
12.45	4.72	0.00	4.72	15.05	0.51	0.00	0.51
12.50	4.19	0.00	4.19	15.10	0.50	0.00	0.50
12.55	3.67	0.00	3.67	15.15	0.49	0.00	0.49
12.60	3.13	0.00	3.13	15.20	0.48	0.00	0.48
12.65	2.74	0.00	2.74	15.25	0.47	0.00	0.47
12.70	2.47	0.00	2.47	15.30	0.47	0.00	0.47
12.75	2.27	0.00	2.27	15.35	0.46	0.00	0.46
12.80	2.11	0.00	2.11	15.40	0.46	0.00	0.46
12.85	1.98	0.00	1.98	15.45	0.46	0.00	0.46
12.90	1.87	0.00	1.87	15.50	0.45	0.00	0.45
12.95	1.77	0.00	1.77	15.55	0.45	0.00	0.45

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.45	0.00	0.45	18.20	0.27	0.00	0.27
15.65	0.44	0.00	0.44	18.25	0.27	0.00	0.27
15.70	0.44	0.00	0.44	18.30	0.27	0.00	0.27
15.75	0.44	0.00	0.44	18.35	0.27	0.00	0.27
15.80	0.43	0.00	0.43	18.40	0.27	0.00	0.27
15.85	0.43	0.00	0.43	18.45	0.27	0.00	0.27
15.90	0.43	0.00	0.43	18.50	0.27	0.00	0.27
15.95	0.42	0.00	0.42	18.55	0.27	0.00	0.27
16.00	0.42	0.00	0.42	18.60	0.27	0.00	0.27
16.05	0.42	0.00	0.42	18.65	0.27	0.00	0.27
16.10	0.41	0.00	0.41	18.70	0.26	0.00	0.26
16.15	0.41	0.00	0.41	18.75	0.26	0.00	0.26
16.20	0.41	0.00	0.41	18.80	0.26	0.00	0.26
16.25	0.40	0.00	0.40	18.85	0.26	0.00	0.26
16.30	0.40	0.00	0.40	18.90	0.26	0.00	0.26
16.35	0.40	0.00	0.40	18.95	0.26	0.00	0.26
16.40	0.39	0.00	0.39	19.00	0.26	0.00	0.26
16.45	0.39	0.00	0.39	19.05	0.26	0.00	0.26
16.50	0.39	0.00	0.39	19.10	0.26	0.00	0.26
16.55	0.38	0.00	0.38	19.15	0.26	0.00	0.26
16.60	0.38	0.00	0.38	19.20	0.26	0.00	0.26
16.65	0.38	0.00	0.38	19.25	0.26	0.00	0.26
16.70	0.37	0.00	0.37	19.30	0.25	0.00	0.25
16.75	0.37	0.00	0.37	19.35	0.25	0.00	0.25
16.80	0.37	0.00	0.37	19.40	0.25	0.00	0.25
16.85	0.36	0.00	0.36	19.45	0.25	0.00	0.25
16.90	0.36	0.00	0.36	19.50	0.25	0.00	0.25
16.95	0.36	0.00	0.36	19.55	0.25	0.00	0.25
17.00	0.35	0.00	0.35	19.60	0.25	0.00	0.25
17.05	0.35	0.00	0.35	19.65	0.25	0.00	0.25
17.10	0.35	0.00	0.35	19.70	0.25	0.00	0.25
17.15	0.34	0.00	0.34	19.75	0.25	0.00	0.25
17.20	0.34	0.00	0.34	19.80	0.25	0.00	0.25
17.25	0.34	0.00	0.34	19.85	0.25	0.00	0.25
17.30	0.33	0.00	0.33	19.90	0.24	0.00	0.24
17.35	0.33	0.00	0.33	19.95	0.24	0.00	0.24
17.40	0.33	0.00	0.33	20.00	0.24	0.00	0.24
17.45	0.32	0.00	0.32	20.05	0.24	0.00	0.24
17.50	0.32	0.00	0.32	20.10	0.24	0.00	0.24
17.55	0.32	0.00	0.32	20.15	0.24	0.00	0.24
17.60	0.31	0.00	0.31	20.20	0.24	0.00	0.24
17.65	0.31	0.00	0.31	20.25	0.24	0.00	0.24
17.70	0.31	0.00	0.31	20.30	0.24	0.00	0.24
17.75	0.30	0.00	0.30	20.35	0.24	0.00	0.24
17.80	0.30	0.00	0.30	20.40	0.24	0.00	0.24
17.85	0.30	0.00	0.30	20.45	0.24	0.00	0.24
17.90	0.29	0.00	0.29	20.50	0.23	0.00	0.23
17.95	0.29	0.00	0.29	20.55	0.23	0.00	0.23
18.00	0.29	0.00	0.29	20.60	0.23	0.00	0.23
18.05	0.28	0.00	0.28	20.65	0.23	0.00	0.23
18.10	0.28	0.00	0.28	20.70	0.23	0.00	0.23
18.15	0.28	0.00	0.28	20.75	0.23	0.00	0.23

Hydrograph for Link E1B: E1B (continued)

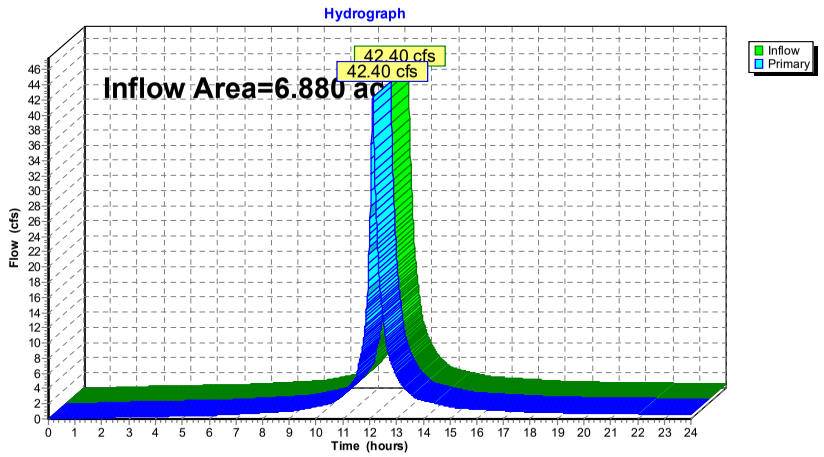
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.23	0.00	0.23	23.40	0.19	0.00	0.19
20.85	0.23	0.00	0.23	23.45	0.19	0.00	0.19
20.90	0.23	0.00	0.23	23.50	0.18	0.00	0.18
20.95	0.23	0.00	0.23	23.55	0.18	0.00	0.18
21.00	0.23	0.00	0.23	23.60	0.18	0.00	0.18
21.05	0.23	0.00	0.23	23.65	0.18	0.00	0.18
21.10	0.22	0.00	0.22	23.70	0.18	0.00	0.18
21.15	0.22	0.00	0.22	23.75	0.18	0.00	0.18
21.20	0.22	0.00	0.22	23.80	0.18	0.00	0.18
21.25	0.22	0.00	0.22	23.85	0.18	0.00	0.18
21.30	0.22	0.00	0.22	23.90	0.18	0.00	0.18
21.35	0.22	0.00	0.22	23.95	0.18	0.00	0.18
21.40	0.22	0.00	0.22	24.00	0.20	0.00	0.20
21.45	0.22	0.00	0.22				
21.50	0.22	0.00	0.22				
21.55	0.22	0.00	0.22				
21.60	0.22	0.00	0.22				
21.65	0.22	0.00	0.22				
21.70	0.21	0.00	0.21				
21.75	0.21	0.00	0.21				
21.80	0.21	0.00	0.21				
21.85	0.21	0.00	0.21				
21.90	0.21	0.00	0.21				
21.95	0.21	0.00	0.21				
22.00	0.21	0.00	0.21				
22.05	0.21	0.00	0.21				
22.10	0.21	0.00	0.21				
22.15	0.21	0.00	0.21				
22.20	0.21	0.00	0.21				
22.25	0.21	0.00	0.21				
22.30	0.20	0.00	0.20				
22.35	0.20	0.00	0.20				
22.40	0.20	0.00	0.20				
22.45	0.20	0.00	0.20				
22.50	0.20	0.00	0.20				
22.55	0.20	0.00	0.20				
22.60	0.20	0.00	0.20				
22.65	0.20	0.00	0.20				
22.70	0.20	0.00	0.20				
22.75	0.20	0.00	0.20				
22.80	0.20	0.00	0.20				
22.85	0.20	0.00	0.20				
22.90	0.19	0.00	0.19				
22.95	0.19	0.00	0.19				
23.00	0.19	0.00	0.19				
23.05	0.19	0.00	0.19				
23.10	0.19	0.00	0.19				
23.15	0.19	0.00	0.19				
23.20	0.19	0.00	0.19				
23.25	0.19	0.00	0.19				
23.30	0.19	0.00	0.19				
23.35	0.19	0.00	0.19				

Summary for Link EPOI-1: EPOI-1

Inflow Area = 6.880 ac, 33.14% Impervious, Inflow Depth > 6.61" for 25YR PROJECTED event
Inflow = 42.40 cfs @ 12.12 hrs, Volume= 3.792 af
Primary = 42.40 cfs @ 12.12 hrs, Volume= 3.792 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link EPOI-1: EPOI-1



Hydrograph for Link EPOI-1: EPOI-1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.23	0.00	0.23
0.05	0.00	0.00	0.00	2.65	0.23	0.00	0.23
0.10	0.00	0.00	0.00	2.70	0.24	0.00	0.24
0.15	0.00	0.00	0.00	2.75	0.24	0.00	0.24
0.20	0.00	0.00	0.00	2.80	0.25	0.00	0.25
0.25	0.00	0.00	0.00	2.85	0.25	0.00	0.25
0.30	0.00	0.00	0.00	2.90	0.26	0.00	0.26
0.35	0.00	0.00	0.00	2.95	0.26	0.00	0.26
0.40	0.00	0.00	0.00	3.00	0.26	0.00	0.26
0.45	0.00	0.00	0.00	3.05	0.27	0.00	0.27
0.50	0.00	0.00	0.00	3.10	0.27	0.00	0.27
0.55	0.00	0.00	0.00	3.15	0.27	0.00	0.27
0.60	0.00	0.00	0.00	3.20	0.28	0.00	0.28
0.65	0.01	0.00	0.01	3.25	0.28	0.00	0.28
0.70	0.01	0.00	0.01	3.30	0.29	0.00	0.29
0.75	0.01	0.00	0.01	3.35	0.29	0.00	0.29
0.80	0.02	0.00	0.02	3.40	0.29	0.00	0.29
0.85	0.02	0.00	0.02	3.45	0.30	0.00	0.30
0.90	0.03	0.00	0.03	3.50	0.30	0.00	0.30
0.95	0.04	0.00	0.04	3.55	0.30	0.00	0.30
1.00	0.04	0.00	0.04	3.60	0.31	0.00	0.31
1.05	0.05	0.00	0.05	3.65	0.31	0.00	0.31
1.10	0.05	0.00	0.05	3.70	0.31	0.00	0.31
1.15	0.06	0.00	0.06	3.75	0.32	0.00	0.32
1.20	0.07	0.00	0.07	3.80	0.32	0.00	0.32
1.25	0.08	0.00	0.08	3.85	0.32	0.00	0.32
1.30	0.08	0.00	0.08	3.90	0.33	0.00	0.33
1.35	0.09	0.00	0.09	3.95	0.33	0.00	0.33
1.40	0.10	0.00	0.10	4.00	0.33	0.00	0.33
1.45	0.10	0.00	0.10	4.05	0.34	0.00	0.34
1.50	0.11	0.00	0.11	4.10	0.34	0.00	0.34
1.55	0.12	0.00	0.12	4.15	0.34	0.00	0.34
1.60	0.12	0.00	0.12	4.20	0.35	0.00	0.35
1.65	0.13	0.00	0.13	4.25	0.35	0.00	0.35
1.70	0.14	0.00	0.14	4.30	0.35	0.00	0.35
1.75	0.14	0.00	0.14	4.35	0.36	0.00	0.36
1.80	0.15	0.00	0.15	4.40	0.36	0.00	0.36
1.85	0.15	0.00	0.15	4.45	0.36	0.00	0.36
1.90	0.16	0.00	0.16	4.50	0.36	0.00	0.36
1.95	0.17	0.00	0.17	4.55	0.37	0.00	0.37
2.00	0.17	0.00	0.17	4.60	0.37	0.00	0.37
2.05	0.18	0.00	0.18	4.65	0.37	0.00	0.37
2.10	0.18	0.00	0.18	4.70	0.37	0.00	0.37
2.15	0.19	0.00	0.19	4.75	0.38	0.00	0.38
2.20	0.19	0.00	0.19	4.80	0.38	0.00	0.38
2.25	0.20	0.00	0.20	4.85	0.38	0.00	0.38
2.30	0.20	0.00	0.20	4.90	0.39	0.00	0.39
2.35	0.21	0.00	0.21	4.95	0.39	0.00	0.39
2.40	0.21	0.00	0.21	5.00	0.39	0.00	0.39
2.45	0.22	0.00	0.22	5.05	0.39	0.00	0.39
2.50	0.22	0.00	0.22	5.10	0.40	0.00	0.40
2.55	0.23	0.00	0.23	5.15	0.40	0.00	0.40

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.41	0.00	0.41	7.80	0.79	0.00	0.79
5.25	0.41	0.00	0.41	7.85	0.80	0.00	0.80
5.30	0.41	0.00	0.41	7.90	0.81	0.00	0.81
5.35	0.42	0.00	0.42	7.95	0.82	0.00	0.82
5.40	0.42	0.00	0.42	8.00	0.83	0.00	0.83
5.45	0.42	0.00	0.42	8.05	0.84	0.00	0.84
5.50	0.43	0.00	0.43	8.10	0.85	0.00	0.85
5.55	0.43	0.00	0.43	8.15	0.86	0.00	0.86
5.60	0.44	0.00	0.44	8.20	0.87	0.00	0.87
5.65	0.44	0.00	0.44	8.25	0.88	0.00	0.88
5.70	0.44	0.00	0.44	8.30	0.89	0.00	0.89
5.75	0.45	0.00	0.45	8.35	0.90	0.00	0.90
5.80	0.45	0.00	0.45	8.40	0.91	0.00	0.91
5.85	0.46	0.00	0.46	8.45	0.92	0.00	0.92
5.90	0.46	0.00	0.46	8.50	0.93	0.00	0.93
5.95	0.46	0.00	0.46	8.55	0.94	0.00	0.94
6.00	0.47	0.00	0.47	8.60	0.95	0.00	0.95
6.05	0.47	0.00	0.47	8.65	0.96	0.00	0.96
6.10	0.48	0.00	0.48	8.70	0.97	0.00	0.97
6.15	0.49	0.00	0.49	8.75	0.99	0.00	0.99
6.20	0.50	0.00	0.50	8.80	1.00	0.00	1.00
6.25	0.50	0.00	0.50	8.85	1.01	0.00	1.01
6.30	0.51	0.00	0.51	8.90	1.02	0.00	1.02
6.35	0.52	0.00	0.52	8.95	1.03	0.00	1.03
6.40	0.53	0.00	0.53	9.00	1.04	0.00	1.04
6.45	0.54	0.00	0.54	9.05	1.06	0.00	1.06
6.50	0.55	0.00	0.55	9.10	1.08	0.00	1.08
6.55	0.56	0.00	0.56	9.15	1.11	0.00	1.11
6.60	0.56	0.00	0.56	9.20	1.14	0.00	1.14
6.65	0.57	0.00	0.57	9.25	1.17	0.00	1.17
6.70	0.58	0.00	0.58	9.30	1.20	0.00	1.20
6.75	0.59	0.00	0.59	9.35	1.23	0.00	1.23
6.80	0.60	0.00	0.60	9.40	1.26	0.00	1.26
6.85	0.61	0.00	0.61	9.45	1.29	0.00	1.29
6.90	0.62	0.00	0.62	9.50	1.32	0.00	1.32
6.95	0.63	0.00	0.63	9.55	1.36	0.00	1.36
7.00	0.64	0.00	0.64	9.60	1.39	0.00	1.39
7.05	0.65	0.00	0.65	9.65	1.43	0.00	1.43
7.10	0.65	0.00	0.65	9.70	1.46	0.00	1.46
7.15	0.66	0.00	0.66	9.75	1.49	0.00	1.49
7.20	0.67	0.00	0.67	9.80	1.53	0.00	1.53
7.25	0.68	0.00	0.68	9.85	1.56	0.00	1.56
7.30	0.69	0.00	0.69	9.90	1.60	0.00	1.60
7.35	0.70	0.00	0.70	9.95	1.63	0.00	1.63
7.40	0.71	0.00	0.71	10.00	1.67	0.00	1.67
7.45	0.72	0.00	0.72	10.05	1.70	0.00	1.70
7.50	0.73	0.00	0.73	10.10	1.74	0.00	1.74
7.55	0.74	0.00	0.74	10.15	1.77	0.00	1.77
7.60	0.75	0.00	0.75	10.20	1.81	0.00	1.81
7.65	0.76	0.00	0.76	10.25	1.85	0.00	1.85
7.70	0.77	0.00	0.77	10.30	1.88	0.00	1.88
7.75	0.78	0.00	0.78	10.35	1.92	0.00	1.92

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	1.95	0.00	1.95	13.00	5.79	0.00	5.79
10.45	1.99	0.00	1.99	13.05	5.43	0.00	5.43
10.50	2.03	0.00	2.03	13.10	5.09	0.00	5.09
10.55	2.11	0.00	2.11	13.15	4.79	0.00	4.79
10.60	2.19	0.00	2.19	13.20	4.54	0.00	4.54
10.65	2.30	0.00	2.30	13.25	4.32	0.00	4.32
10.70	2.41	0.00	2.41	13.30	4.11	0.00	4.11
10.75	2.53	0.00	2.53	13.35	3.92	0.00	3.92
10.80	2.65	0.00	2.65	13.40	3.74	0.00	3.74
10.85	2.78	0.00	2.78	13.45	3.56	0.00	3.56
10.90	2.90	0.00	2.90	13.50	3.39	0.00	3.39
10.95	3.03	0.00	3.03	13.55	3.22	0.00	3.22
11.00	3.16	0.00	3.16	13.60	3.06	0.00	3.06
11.05	3.34	0.00	3.34	13.65	2.93	0.00	2.93
11.10	3.54	0.00	3.54	13.70	2.84	0.00	2.84
11.15	3.76	0.00	3.76	13.75	2.75	0.00	2.75
11.20	3.98	0.00	3.98	13.80	2.69	0.00	2.69
11.25	4.23	0.00	4.23	13.85	2.62	0.00	2.62
11.30	4.46	0.00	4.46	13.90	2.57	0.00	2.57
11.35	4.72	0.00	4.72	13.95	2.52	0.00	2.52
11.40	4.96	0.00	4.96	14.00	2.47	0.00	2.47
11.45	5.20	0.00	5.20	14.05	2.42	0.00	2.42
11.50	5.42	0.00	5.42	14.10	2.38	0.00	2.38
11.55	6.26	0.00	6.26	14.15	2.33	0.00	2.33
11.60	7.29	0.00	7.29	14.20	2.29	0.00	2.29
11.65	8.04	0.00	8.04	14.25	2.25	0.00	2.25
11.70	8.61	0.00	8.61	14.30	2.21	0.00	2.21
11.75	9.76	0.00	9.76	14.35	2.16	0.00	2.16
11.80	11.08	0.00	11.08	14.40	2.12	0.00	2.12
11.85	13.03	0.00	13.03	14.45	2.08	0.00	2.08
11.90	15.13	0.00	15.13	14.50	2.05	0.00	2.05
11.95	19.41	0.00	19.41	14.55	2.00	0.00	2.00
12.00	24.34	0.00	24.34	14.60	1.96	0.00	1.96
12.05	32.22	0.00	32.22	14.65	1.92	0.00	1.92
12.10	**40.89**	0.00	**40.89**	14.70	1.88	0.00	1.88
12.15	**38.60**	0.00	**38.60**	14.75	1.84	0.00	1.84
12.20	31.58	0.00	31.58	14.80	1.81	0.00	1.81
12.25	26.38	0.00	26.38	14.85	1.77	0.00	1.77
12.30	22.35	0.00	22.35	14.90	1.73	0.00	1.73
12.35	19.12	0.00	19.12	14.95	1.69	0.00	1.69
12.40	16.51	0.00	16.51	15.00	1.65	0.00	1.65
12.45	14.76	0.00	14.76	15.05	1.61	0.00	1.61
12.50	13.55	0.00	13.55	15.10	1.57	0.00	1.57
12.55	12.02	0.00	12.02	15.15	1.54	0.00	1.54
12.60	10.47	0.00	10.47	15.20	1.52	0.00	1.52
12.65	9.40	0.00	9.40	15.25	1.50	0.00	1.50
12.70	8.62	0.00	8.62	15.30	1.48	0.00	1.48
12.75	7.98	0.00	7.98	15.35	1.47	0.00	1.47
12.80	7.46	0.00	7.46	15.40	1.46	0.00	1.46
12.85	6.99	0.00	6.99	15.45	1.44	0.00	1.44
12.90	6.57	0.00	6.57	15.50	1.43	0.00	1.43
12.95	6.16	0.00	6.16	15.55	1.42	0.00	1.42

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	1.41	0.00	1.41	18.20	0.86	0.00	0.86
15.65	1.39	0.00	1.39	18.25	0.86	0.00	0.86
15.70	1.38	0.00	1.38	18.30	0.86	0.00	0.86
15.75	1.37	0.00	1.37	18.35	0.85	0.00	0.85
15.80	1.36	0.00	1.36	18.40	0.85	0.00	0.85
15.85	1.35	0.00	1.35	18.45	0.84	0.00	0.84
15.90	1.34	0.00	1.34	18.50	0.84	0.00	0.84
15.95	1.33	0.00	1.33	18.55	0.84	0.00	0.84
16.00	1.32	0.00	1.32	18.60	0.84	0.00	0.84
16.05	1.31	0.00	1.31	18.65	0.83	0.00	0.83
16.10	1.30	0.00	1.30	18.70	0.83	0.00	0.83
16.15	1.29	0.00	1.29	18.75	0.83	0.00	0.83
16.20	1.28	0.00	1.28	18.80	0.82	0.00	0.82
16.25	1.27	0.00	1.27	18.85	0.82	0.00	0.82
16.30	1.25	0.00	1.25	18.90	0.82	0.00	0.82
16.35	1.24	0.00	1.24	18.95	0.82	0.00	0.82
16.40	1.23	0.00	1.23	19.00	0.81	0.00	0.81
16.45	1.22	0.00	1.22	19.05	0.81	0.00	0.81
16.50	1.21	0.00	1.21	19.10	0.81	0.00	0.81
16.55	1.20	0.00	1.20	19.15	0.81	0.00	0.81
16.60	1.19	0.00	1.19	19.20	0.80	0.00	0.80
16.65	1.18	0.00	1.18	19.25	0.80	0.00	0.80
16.70	1.17	0.00	1.17	19.30	0.80	0.00	0.80
16.75	1.16	0.00	1.16	19.35	0.79	0.00	0.79
16.80	1.15	0.00	1.15	19.40	0.79	0.00	0.79
16.85	1.14	0.00	1.14	19.45	0.79	0.00	0.79
16.90	1.13	0.00	1.13	19.50	0.79	0.00	0.79
16.95	1.12	0.00	1.12	19.55	0.78	0.00	0.78
17.00	1.11	0.00	1.11	19.60	0.78	0.00	0.78
17.05	1.10	0.00	1.10	19.65	0.78	0.00	0.78
17.10	1.09	0.00	1.09	19.70	0.78	0.00	0.78
17.15	1.08	0.00	1.08	19.75	0.77	0.00	0.77
17.20	1.07	0.00	1.07	19.80	0.77	0.00	0.77
17.25	1.06	0.00	1.06	19.85	0.77	0.00	0.77
17.30	1.04	0.00	1.04	19.90	0.77	0.00	0.77
17.35	1.03	0.00	1.03	19.95	0.76	0.00	0.76
17.40	1.02	0.00	1.02	20.00	0.76	0.00	0.76
17.45	1.01	0.00	1.01	20.05	0.76	0.00	0.76
17.50	1.00	0.00	1.00	20.10	0.76	0.00	0.76
17.55	0.99	0.00	0.99	20.15	0.75	0.00	0.75
17.60	0.98	0.00	0.98	20.20	0.75	0.00	0.75
17.65	0.97	0.00	0.97	20.25	0.75	0.00	0.75
17.70	0.96	0.00	0.96	20.30	0.74	0.00	0.74
17.75	0.95	0.00	0.95	20.35	0.74	0.00	0.74
17.80	0.94	0.00	0.94	20.40	0.74	0.00	0.74
17.85	0.93	0.00	0.93	20.45	0.74	0.00	0.74
17.90	0.92	0.00	0.92	20.50	0.73	0.00	0.73
17.95	0.91	0.00	0.91	20.55	0.73	0.00	0.73
18.00	0.90	0.00	0.90	20.60	0.73	0.00	0.73
18.05	0.89	0.00	0.89	20.65	0.73	0.00	0.73
18.10	0.88	0.00	0.88	20.70	0.73	0.00	0.73
18.15	0.87	0.00	0.87	20.75	0.72	0.00	0.72

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.72	0.00	0.72	23.40	0.58	0.00	0.58
20.85	0.72	0.00	0.72	23.45	0.58	0.00	0.58
20.90	0.71	0.00	0.71	23.50	0.58	0.00	0.58
20.95	0.71	0.00	0.71	23.55	0.57	0.00	0.57
21.00	0.71	0.00	0.71	23.60	0.57	0.00	0.57
21.05	0.71	0.00	0.71	23.65	0.57	0.00	0.57
21.10	0.70	0.00	0.70	23.70	0.57	0.00	0.57
21.15	0.70	0.00	0.70	23.75	0.57	0.00	0.57
21.20	0.70	0.00	0.70	23.80	0.56	0.00	0.56
21.25	0.70	0.00	0.70	23.85	0.56	0.00	0.56
21.30	0.69	0.00	0.69	23.90	0.56	0.00	0.56
21.35	0.69	0.00	0.69	23.95	0.58	0.00	0.58
21.40	0.69	0.00	0.69	24.00	0.62	0.00	0.62
21.45	0.69	0.00	0.69				
21.50	0.68	0.00	0.68				
21.55	0.68	0.00	0.68				
21.60	0.68	0.00	0.68				
21.65	0.67	0.00	0.67				
21.70	0.67	0.00	0.67				
21.75	0.67	0.00	0.67				
21.80	0.67	0.00	0.67				
21.85	0.67	0.00	0.67				
21.90	0.66	0.00	0.66				
21.95	0.66	0.00	0.66				
22.00	0.66	0.00	0.66				
22.05	0.65	0.00	0.65				
22.10	0.65	0.00	0.65				
22.15	0.65	0.00	0.65				
22.20	0.65	0.00	0.65				
22.25	0.64	0.00	0.64				
22.30	0.64	0.00	0.64				
22.35	0.64	0.00	0.64				
22.40	0.64	0.00	0.64				
22.45	0.63	0.00	0.63				
22.50	0.63	0.00	0.63				
22.55	0.63	0.00	0.63				
22.60	0.63	0.00	0.63				
22.65	0.62	0.00	0.62				
22.70	0.62	0.00	0.62				
22.75	0.62	0.00	0.62				
22.80	0.61	0.00	0.61				
22.85	0.61	0.00	0.61				
22.90	0.61	0.00	0.61				
22.95	0.61	0.00	0.61				
23.00	0.61	0.00	0.61				
23.05	0.60	0.00	0.60				
23.10	0.60	0.00	0.60				
23.15	0.60	0.00	0.60				
23.20	0.59	0.00	0.59				
23.25	0.59	0.00	0.59				
23.30	0.59	0.00	0.59				
23.35	0.59	0.00	0.59				

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

SubcatchmentEDA 1B PERV: EDA-1B PERV Runoff Area=0.380 ac 0.00% Impervious Runoff Depth>5.34"
Flow Length=761' Tc=5.4 min CN=53 Runoff=2.21 cfs 0.169 af

SubcatchmentEDA1A IMP: EDA1A IMP Runoff Area=1.100 ac 68.18% Impervious Runoff Depth>11.47"
Flow Length=496' Tc=3.1 min CN=97 Runoff=13.71 cfs 1.051 af

SubcatchmentEDA1A PERV: EDA-1APERV Runoff Area=0.280 ac 0.00% Impervious Runoff Depth>9.28"
Flow Length=496' Tc=3.1 min CN=80 Runoff=3.17 cfs 0.217 af

SubcatchmentEDA1B IMP: EDA1B IMP Runoff Area=1.550 ac 19.35% Impervious Runoff Depth>11.33"
Flow Length=787' Tc=6.2 min CN=96 Runoff=15.79 cfs 1.464 af

SubcatchmentEDA2 IMP: EDA2 IMP Runoff Area=0.310 ac 100.00% Impervious Runoff Depth>11.59"
Flow Length=351' Tc=2.2 min CN=98 Runoff=4.12 cfs 0.299 af

SubcatchmentEDA3 IMP: EDA3 IMP Runoff Area=0.800 ac 100.00% Impervious Runoff Depth>11.58"
Flow Length=804' Tc=4.7 min CN=98 Runoff=8.97 cfs 0.772 af

SubcatchmentEDA3 PERV: EDA3 PERV Runoff Area=0.850 ac 0.00% Impervious Runoff Depth>9.28"
Flow Length=131' Tc=3.4 min CN=80 Runoff=9.44 cfs 0.657 af

SubcatchmentEDA4 IMP: EDA4 IMP Runoff Area=0.170 ac 70.59% Impervious Runoff Depth>11.47"
Flow Length=188' Tc=1.8 min CN=97 Runoff=2.30 cfs 0.163 af

SubcatchmentEDA4 PERV: EDA4 PERV Runoff Area=1.440 ac 0.00% Impervious Runoff Depth>9.24"
Flow Length=415' Tc=15.0 min CN=80 Runoff=8.92 cfs 1.109 af

Link E1A: E1A Inflow=16.89 cfs 1.268 af
Primary=16.89 cfs 1.268 af

Link E1B: E1B Inflow=21.37 cfs 1.932 af
Primary=21.37 cfs 1.932 af

Link EPOI-1: EPOI-1 Inflow=64.96 cfs 5.901 af
Primary=64.96 cfs 5.901 af

Total Runoff Area = 6.880 ac Runoff Volume = 5.901 af Average Runoff Depth = 10.29"
66.86% Pervious = 4.600 ac 33.14% Impervious = 2.280 ac

Summary for Subcatchment EDA 1B PERV: EDA-1B PERV

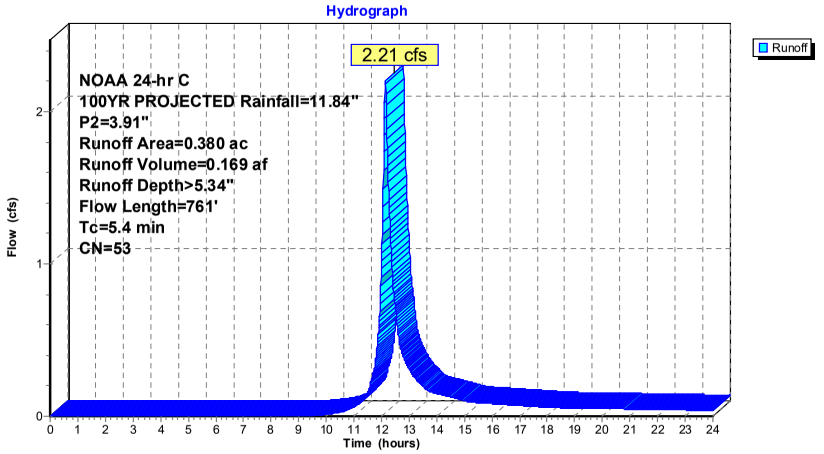
Runoff = 2.21 cfs @ 12.14 hrs, Volume= 0.169 af, Depth> 5.34"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"

Area (ac)	CN	Description
0.250	39	>75% Grass cover, Good, HSG A
0.130	80	>75% Grass cover, Good, HSG D
0.380	53	Weighted Average
0.380		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	93	0.0100	1.14		**Sheet Flow, Grass** Smooth surfaces n= 0.011 P2= 3.91"
0.8	74	0.0100	1.50		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.3	93	0.0110	5.40	9.55	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
5.4	761	Total			

Subcatchment EDA 1B PERV: EDA-1B PERV



Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.36	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.36	0.00	0.00
0.10	0.02	0.00	0.00	2.70	0.37	0.00	0.00
0.15	0.02	0.00	0.00	2.75	0.38	0.00	0.00
0.20	0.03	0.00	0.00	2.80	0.39	0.00	0.00
0.25	0.03	0.00	0.00	2.85	0.39	0.00	0.00
0.30	0.04	0.00	0.00	2.90	0.40	0.00	0.00
0.35	0.05	0.00	0.00	2.95	0.41	0.00	0.00
0.40	0.05	0.00	0.00	3.00	0.42	0.00	0.00
0.45	0.06	0.00	0.00	3.05	0.43	0.00	0.00
0.50	0.06	0.00	0.00	3.10	0.43	0.00	0.00
0.55	0.07	0.00	0.00	3.15	0.44	0.00	0.00
0.60	0.08	0.00	0.00	3.20	0.45	0.00	0.00
0.65	0.08	0.00	0.00	3.25	0.46	0.00	0.00
0.70	0.09	0.00	0.00	3.30	0.46	0.00	0.00
0.75	0.10	0.00	0.00	3.35	0.47	0.00	0.00
0.80	0.10	0.00	0.00	3.40	0.48	0.00	0.00
0.85	0.11	0.00	0.00	3.45	0.49	0.00	0.00
0.90	0.12	0.00	0.00	3.50	0.50	0.00	0.00
0.95	0.12	0.00	0.00	3.55	0.51	0.00	0.00
1.00	0.13	0.00	0.00	3.60	0.51	0.00	0.00
1.05	0.14	0.00	0.00	3.65	0.52	0.00	0.00
1.10	0.14	0.00	0.00	3.70	0.53	0.00	0.00
1.15	0.15	0.00	0.00	3.75	0.54	0.00	0.00
1.20	0.16	0.00	0.00	3.80	0.55	0.00	0.00
1.25	0.16	0.00	0.00	3.85	0.55	0.00	0.00
1.30	0.17	0.00	0.00	3.90	0.56	0.00	0.00
1.35	0.18	0.00	0.00	3.95	0.57	0.00	0.00
1.40	0.18	0.00	0.00	4.00	0.58	0.00	0.00
1.45	0.19	0.00	0.00	4.05	0.59	0.00	0.00
1.50	0.20	0.00	0.00	4.10	0.60	0.00	0.00
1.55	0.20	0.00	0.00	4.15	0.60	0.00	0.00
1.60	0.21	0.00	0.00	4.20	0.61	0.00	0.00
1.65	0.22	0.00	0.00	4.25	0.62	0.00	0.00
1.70	0.22	0.00	0.00	4.30	0.63	0.00	0.00
1.75	0.23	0.00	0.00	4.35	0.64	0.00	0.00
1.80	0.24	0.00	0.00	4.40	0.65	0.00	0.00
1.85	0.25	0.00	0.00	4.45	0.66	0.00	0.00
1.90	0.25	0.00	0.00	4.50	0.66	0.00	0.00
1.95	0.26	0.00	0.00	4.55	0.67	0.00	0.00
2.00	0.27	0.00	0.00	4.60	0.68	0.00	0.00
2.05	0.27	0.00	0.00	4.65	0.69	0.00	0.00
2.10	0.28	0.00	0.00	4.70	0.70	0.00	0.00
2.15	0.29	0.00	0.00	4.75	0.71	0.00	0.00
2.20	0.30	0.00	0.00	4.80	0.72	0.00	0.00
2.25	0.30	0.00	0.00	4.85	0.73	0.00	0.00
2.30	0.31	0.00	0.00	4.90	0.74	0.00	0.00
2.35	0.32	0.00	0.00	4.95	0.74	0.00	0.00
2.40	0.33	0.00	0.00	5.00	0.75	0.00	0.00
2.45	0.33	0.00	0.00	5.05	0.76	0.00	0.00
2.50	0.34	0.00	0.00	5.10	0.77	0.00	0.00
2.55	0.35	0.00	0.00	5.15	0.78	0.00	0.00

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.79	0.00	0.00	7.80	1.36	0.00	0.00
5.25	0.80	0.00	0.00	7.85	1.38	0.00	0.00
5.30	0.81	0.00	0.00	7.90	1.39	0.00	0.00
5.35	0.82	0.00	0.00	7.95	1.40	0.00	0.00
5.40	0.83	0.00	0.00	8.00	1.42	0.00	0.00
5.45	0.83	0.00	0.00	8.05	1.43	0.00	0.00
5.50	0.84	0.00	0.00	8.10	1.45	0.00	0.00
5.55	0.85	0.00	0.00	8.15	1.46	0.00	0.00
5.60	0.86	0.00	0.00	8.20	1.48	0.00	0.00
5.65	0.87	0.00	0.00	8.25	1.49	0.00	0.00
5.70	0.88	0.00	0.00	8.30	1.51	0.00	0.00
5.75	0.89	0.00	0.00	8.35	1.52	0.00	0.00
5.80	0.90	0.00	0.00	8.40	1.54	0.00	0.00
5.85	0.91	0.00	0.00	8.45	1.55	0.00	0.00
5.90	0.92	0.00	0.00	8.50	1.57	0.00	0.00
5.95	0.93	0.00	0.00	8.55	1.58	0.00	0.00
6.00	0.94	0.00	0.00	8.60	1.60	0.00	0.00
6.05	0.95	0.00	0.00	8.65	1.62	0.00	0.00
6.10	0.96	0.00	0.00	8.70	1.63	0.00	0.00
6.15	0.97	0.00	0.00	8.75	1.65	0.00	0.00
6.20	0.98	0.00	0.00	8.80	1.66	0.00	0.00
6.25	0.99	0.00	0.00	8.85	1.68	0.00	0.00
6.30	1.00	0.00	0.00	8.90	1.70	0.00	0.00
6.35	1.01	0.00	0.00	8.95	1.71	0.00	0.00
6.40	1.02	0.00	0.00	9.00	1.73	0.00	0.00
6.45	1.03	0.00	0.00	9.05	1.75	0.00	0.00
6.50	1.04	0.00	0.00	9.10	1.76	0.00	0.00
6.55	1.05	0.00	0.00	9.15	1.78	0.00	0.00
6.60	1.06	0.00	0.00	9.20	1.80	0.00	0.00
6.65	1.07	0.00	0.00	9.25	1.82	0.00	0.00
6.70	1.09	0.00	0.00	9.30	1.84	0.00	0.00
6.75	1.10	0.00	0.00	9.35	1.86	0.00	0.00
6.80	1.11	0.00	0.00	9.40	1.88	0.00	0.00
6.85	1.12	0.00	0.00	9.45	1.90	0.00	0.00
6.90	1.13	0.00	0.00	9.50	1.92	0.00	0.00
6.95	1.14	0.00	0.00	9.55	1.94	0.00	0.00
7.00	1.15	0.00	0.00	9.60	1.97	0.00	0.00
7.05	1.17	0.00	0.00	9.65	1.99	0.01	0.01
7.10	1.18	0.00	0.00	9.70	2.01	0.01	0.01
7.15	1.19	0.00	0.00	9.75	2.03	0.01	0.01
7.20	1.20	0.00	0.00	9.80	2.06	0.01	0.01
7.25	1.22	0.00	0.00	9.85	2.08	0.01	0.01
7.30	1.23	0.00	0.00	9.90	2.11	0.01	0.01
7.35	1.24	0.00	0.00	9.95	2.13	0.01	0.01
7.40	1.25	0.00	0.00	10.00	2.16	0.02	0.01
7.45	1.27	0.00	0.00	10.05	2.19	0.02	0.01
7.50	1.28	0.00	0.00	10.10	2.21	0.02	0.02
7.55	1.29	0.00	0.00	10.15	2.24	0.02	0.02
7.60	1.31	0.00	0.00	10.20	2.27	0.03	0.02
7.65	1.32	0.00	0.00	10.25	2.29	0.03	0.02
7.70	1.33	0.00	0.00	10.30	2.32	0.03	0.02
7.75	1.35	0.00	0.00	10.35	2.35	0.04	0.02

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	2.38	0.04	0.02	13.00	9.00	3.24	0.31
10.45	2.41	0.04	0.03	13.05	9.05	3.28	0.30
10.50	2.44	0.05	0.03	13.10	9.09	3.31	0.28
10.55	2.47	0.05	0.03	13.15	9.14	3.34	0.27
10.60	2.51	0.06	0.03	13.20	9.18	3.37	0.25
10.65	2.54	0.06	0.03	13.25	9.22	3.40	0.24
10.70	2.58	0.07	0.04	13.30	9.26	3.43	0.23
10.75	2.62	0.07	0.04	13.35	9.30	3.45	0.22
10.80	2.66	0.08	0.04	13.40	9.33	3.48	0.21
10.85	2.70	0.09	0.05	13.45	9.37	3.50	0.21
10.90	2.75	0.10	0.05	13.50	9.40	3.53	0.20
10.95	2.79	0.11	0.06	13.55	9.43	3.55	0.19
11.00	2.84	0.11	0.06	13.60	9.46	3.57	0.18
11.05	2.89	0.13	0.07	13.65	9.49	3.59	0.17
11.10	2.95	0.14	0.07	13.70	9.52	3.61	0.17
11.15	3.01	0.15	0.08	13.75	9.55	3.63	0.16
11.20	3.07	0.16	0.09	13.80	9.57	3.65	0.16
11.25	3.13	0.18	0.10	13.85	9.60	3.67	0.16
11.30	3.20	0.20	0.11	13.90	9.63	3.69	0.15
11.35	3.27	0.22	0.12	13.95	9.65	3.71	0.15
11.40	3.34	0.24	0.13	14.00	9.68	3.73	0.15
11.45	3.42	0.26	0.14	14.05	9.71	3.75	0.15
11.50	3.50	0.28	0.15	14.10	9.73	3.76	0.14
11.55	3.62	0.32	0.17	14.15	9.76	3.78	0.14
11.60	3.74	0.36	0.21	14.20	9.78	3.80	0.14
11.65	3.86	0.40	0.25	14.25	9.81	3.82	0.14
11.70	3.99	0.44	0.28	14.30	9.83	3.83	0.14
11.75	4.16	0.51	0.32	14.35	9.85	3.85	0.13
11.80	4.34	0.57	0.39	14.40	9.87	3.87	0.13
11.85	4.58	0.67	0.46	14.45	9.90	3.88	0.13
11.90	4.82	0.78	0.58	14.50	9.92	3.90	0.13
11.95	5.23	0.97	0.74	14.55	9.94	3.91	0.12
12.00	5.64	1.18	1.02	14.60	9.96	3.93	0.12
12.05	6.33	1.55	1.38	14.65	9.98	3.94	0.12
12.10	7.02	1.95	**1.96**	14.70	10.00	3.96	0.12
12.15	7.26	2.10	**2.18**	14.75	10.02	3.97	0.11
12.20	7.50	2.25	1.82	14.80	10.04	3.99	0.11
12.25	7.68	2.36	1.54	14.85	10.06	4.00	0.11
12.30	7.85	2.47	1.28	14.90	10.08	4.01	0.11
12.35	7.98	2.55	1.10	14.95	10.09	4.03	0.11
12.40	8.10	2.64	0.92	15.00	10.11	4.04	0.10
12.45	8.22	2.71	0.79	15.05	10.13	4.05	0.10
12.50	8.34	2.79	0.72	15.10	10.14	4.06	0.10
12.55	8.42	2.85	0.65	15.15	10.16	4.08	0.10
12.60	8.50	2.90	0.55	15.20	10.18	4.09	0.09
12.65	8.57	2.95	0.49	15.25	10.19	4.10	0.09
12.70	8.64	3.00	0.44	15.30	10.21	4.11	0.09
12.75	8.71	3.04	0.41	15.35	10.22	4.12	0.09
12.80	8.77	3.09	0.38	15.40	10.24	4.14	0.09
12.85	8.83	3.13	0.36	15.45	10.26	4.15	0.09
12.90	8.89	3.17	0.34	15.50	10.27	4.16	0.09
12.95	8.95	3.21	0.33	15.55	10.29	4.17	0.09

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	10.30	4.18	0.09	18.20	10.94	4.66	0.06
15.65	10.32	4.19	0.09	18.25	10.95	4.67	0.06
15.70	10.33	4.20	0.09	18.30	10.96	4.67	0.06
15.75	10.35	4.22	0.09	18.35	10.97	4.68	0.05
15.80	10.36	4.23	0.09	18.40	10.98	4.69	0.05
15.85	10.38	4.24	0.09	18.45	10.99	4.69	0.05
15.90	10.39	4.25	0.08	18.50	11.00	4.70	0.05
15.95	10.41	4.26	0.08	18.55	11.01	4.71	0.05
16.00	10.42	4.27	0.08	18.60	11.01	4.72	0.05
16.05	10.44	4.28	0.08	18.65	11.02	4.72	0.05
16.10	10.45	4.29	0.08	18.70	11.03	4.73	0.05
16.15	10.46	4.30	0.08	18.75	11.04	4.74	0.05
16.20	10.48	4.31	0.08	18.80	11.05	4.74	0.05
16.25	10.49	4.32	0.08	18.85	11.06	4.75	0.05
16.30	10.51	4.33	0.08	18.90	11.07	4.76	0.05
16.35	10.52	4.34	0.08	18.95	11.08	4.76	0.05
16.40	10.53	4.35	0.08	19.00	11.09	4.77	0.05
16.45	10.55	4.36	0.08	19.05	11.10	4.78	0.05
16.50	10.56	4.37	0.08	19.10	11.10	4.78	0.05
16.55	10.57	4.38	0.08	19.15	11.11	4.79	0.05
16.60	10.59	4.39	0.08	19.20	11.12	4.80	0.05
16.65	10.60	4.40	0.08	19.25	11.13	4.80	0.05
16.70	10.61	4.41	0.07	19.30	11.14	4.81	0.05
16.75	10.62	4.42	0.07	19.35	11.15	4.82	0.05
16.80	10.64	4.43	0.07	19.40	11.16	4.82	0.05
16.85	10.65	4.44	0.07	19.45	11.17	4.83	0.05
16.90	10.66	4.45	0.07	19.50	11.18	4.84	0.05
16.95	10.67	4.46	0.07	19.55	11.18	4.84	0.05
17.00	10.69	4.47	0.07	19.60	11.19	4.85	0.05
17.05	10.70	4.48	0.07	19.65	11.20	4.86	0.05
17.10	10.71	4.48	0.07	19.70	11.21	4.86	0.05
17.15	10.72	4.49	0.07	19.75	11.22	4.87	0.05
17.20	10.73	4.50	0.07	19.80	11.23	4.88	0.05
17.25	10.74	4.51	0.07	19.85	11.24	4.88	0.05
17.30	10.75	4.52	0.07	19.90	11.24	4.89	0.05
17.35	10.77	4.53	0.07	19.95	11.25	4.90	0.05
17.40	10.78	4.54	0.07	20.00	11.26	4.90	0.05
17.45	10.79	4.54	0.07	20.05	11.27	4.91	0.05
17.50	10.80	4.55	0.06	20.10	11.28	4.92	0.05
17.55	10.81	4.56	0.06	20.15	11.29	4.92	0.05
17.60	10.82	4.57	0.06	20.20	11.29	4.93	0.05
17.65	10.83	4.58	0.06	20.25	11.30	4.94	0.05
17.70	10.84	4.58	0.06	20.30	11.31	4.94	0.05
17.75	10.85	4.59	0.06	20.35	11.32	4.95	0.05
17.80	10.86	4.60	0.06	20.40	11.33	4.95	0.05
17.85	10.87	4.61	0.06	20.45	11.33	4.96	0.05
17.90	10.88	4.62	0.06	20.50	11.34	4.97	0.05
17.95	10.89	4.62	0.06	20.55	11.35	4.97	0.05
18.00	10.90	4.63	0.06	20.60	11.36	4.98	0.05
18.05	10.91	4.64	0.06	20.65	11.37	4.99	0.05
18.10	10.92	4.64	0.06	20.70	11.38	4.99	0.05
18.15	10.93	4.65	0.06	20.75	11.38	5.00	0.05

Hydrograph for Subcatchment EDA 1B PERV: EDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	11.39	5.00	0.05	23.40	11.76	5.29	0.04
20.85	11.40	5.01	0.05	23.45	11.77	5.30	0.04
20.90	11.41	5.02	0.05	23.50	11.78	5.30	0.04
20.95	11.41	5.02	0.05	23.55	11.78	5.31	0.04
21.00	11.42	5.03	0.05	23.60	11.79	5.31	0.04
21.05	11.43	5.03	0.05	23.65	11.79	5.32	0.04
21.10	11.44	5.04	0.05	23.70	11.80	5.32	0.04
21.15	11.45	5.05	0.05	23.75	11.81	5.33	0.04
21.20	11.45	5.05	0.05	23.80	11.81	5.33	0.04
21.25	11.46	5.06	0.05	23.85	11.82	5.34	0.04
21.30	11.47	5.06	0.05	23.90	11.82	5.34	0.04
21.35	11.48	5.07	0.05	23.95	11.83	5.35	0.04
21.40	11.48	5.08	0.05	24.00	**11.84**	**5.35**	0.04
21.45	11.49	5.08	0.05				
21.50	11.50	5.09	0.04				
21.55	11.51	5.09	0.04				
21.60	11.51	5.10	0.04				
21.65	11.52	5.10	0.04				
21.70	11.53	5.11	0.04				
21.75	11.54	5.12	0.04				
21.80	11.54	5.12	0.04				
21.85	11.55	5.13	0.04				
21.90	11.56	5.13	0.04				
21.95	11.57	5.14	0.04				
22.00	11.57	5.14	0.04				
22.05	11.58	5.15	0.04				
22.10	11.59	5.15	0.04				
22.15	11.59	5.16	0.04				
22.20	11.60	5.17	0.04				
22.25	11.61	5.17	0.04				
22.30	11.62	5.18	0.04				
22.35	11.62	5.18	0.04				
22.40	11.63	5.19	0.04				
22.45	11.64	5.19	0.04				
22.50	11.64	5.20	0.04				
22.55	11.65	5.20	0.04				
22.60	11.66	5.21	0.04				
22.65	11.66	5.21	0.04				
22.70	11.67	5.22	0.04				
22.75	11.68	5.22	0.04				
22.80	11.68	5.23	0.04				
22.85	11.69	5.24	0.04				
22.90	11.70	5.24	0.04				
22.95	11.70	5.25	0.04				
23.00	11.71	5.25	0.04				
23.05	11.72	5.26	0.04				
23.10	11.72	5.26	0.04				
23.15	11.73	5.27	0.04				
23.20	11.74	5.27	0.04				
23.25	11.74	5.28	0.04				
23.30	11.75	5.28	0.04				
23.35	11.76	5.29	0.04				

Summary for Subcatchment EDA1A IMP: EDA1A IMP

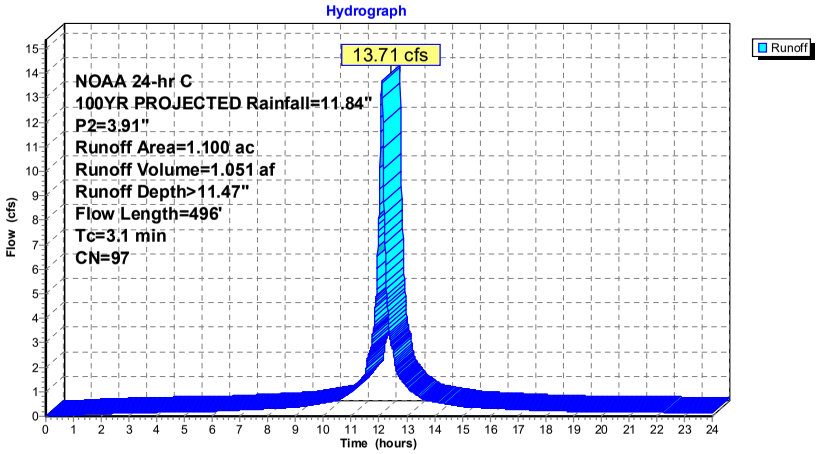
Runoff = 13.71 cfs @ 12.11 hrs, Volume= 1.051 af, Depth>11.47"
Routed to Link E1A : E1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"

	Area (ac)	CN	Description
	0.350	96	Gravel surface, HSG D
*	0.570	98	Impervious vehicular
*	0.180	98	Impervious non vehicular
	1.100	97	Weighted Average
	0.350		31.82% Pervious Area
	0.750		68.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0100	1.15		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
3.1	496	Total			

Subcatchment EDA1A IMP: EDA1A IMP



Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.36	0.14	0.12
0.05	0.01	0.00	0.00	2.65	0.36	0.15	0.12
0.10	0.02	0.00	0.00	2.70	0.37	0.15	0.12
0.15	0.02	0.00	0.00	2.75	0.38	0.16	0.13
0.20	0.03	0.00	0.00	2.80	0.39	0.17	0.13
0.25	0.03	0.00	0.00	2.85	0.39	0.17	0.13
0.30	0.04	0.00	0.00	2.90	0.40	0.18	0.13
0.35	0.05	0.00	0.00	2.95	0.41	0.18	0.13
0.40	0.05	0.00	0.00	3.00	0.42	0.19	0.13
0.45	0.06	0.00	0.00	3.05	0.43	0.20	0.13
0.50	0.06	0.00	0.00	3.10	0.43	0.20	0.14
0.55	0.07	0.00	0.00	3.15	0.44	0.21	0.14
0.60	0.08	0.00	0.01	3.20	0.45	0.22	0.14
0.65	0.08	0.00	0.01	3.25	0.46	0.22	0.14
0.70	0.09	0.00	0.02	3.30	0.46	0.23	0.14
0.75	0.10	0.00	0.02	3.35	0.47	0.23	0.14
0.80	0.10	0.00	0.02	3.40	0.48	0.24	0.14
0.85	0.11	0.01	0.03	3.45	0.49	0.25	0.15
0.90	0.12	0.01	0.03	3.50	0.50	0.25	0.15
0.95	0.12	0.01	0.04	3.55	0.51	0.26	0.15
1.00	0.13	0.01	0.04	3.60	0.51	0.27	0.15
1.05	0.14	0.01	0.05	3.65	0.52	0.27	0.15
1.10	0.14	0.02	0.05	3.70	0.53	0.28	0.15
1.15	0.15	0.02	0.05	3.75	0.54	0.29	0.15
1.20	0.16	0.02	0.06	3.80	0.55	0.30	0.15
1.25	0.16	0.02	0.06	3.85	0.55	0.30	0.15
1.30	0.17	0.03	0.06	3.90	0.56	0.31	0.16
1.35	0.18	0.03	0.07	3.95	0.57	0.32	0.16
1.40	0.18	0.03	0.07	4.00	0.58	0.32	0.16
1.45	0.19	0.04	0.07	4.05	0.59	0.33	0.16
1.50	0.20	0.04	0.08	4.10	0.60	0.34	0.16
1.55	0.20	0.04	0.08	4.15	0.60	0.35	0.16
1.60	0.21	0.05	0.08	4.20	0.61	0.35	0.16
1.65	0.22	0.05	0.08	4.25	0.62	0.36	0.16
1.70	0.22	0.06	0.09	4.30	0.63	0.37	0.17
1.75	0.23	0.06	0.09	4.35	0.64	0.38	0.17
1.80	0.24	0.06	0.09	4.40	0.65	0.38	0.17
1.85	0.25	0.07	0.09	4.45	0.66	0.39	0.17
1.90	0.25	0.07	0.09	4.50	0.66	0.40	0.17
1.95	0.26	0.08	0.10	4.55	0.67	0.41	0.17
2.00	0.27	0.08	0.10	4.60	0.68	0.41	0.17
2.05	0.27	0.09	0.10	4.65	0.69	0.42	0.17
2.10	0.28	0.09	0.10	4.70	0.70	0.43	0.17
2.15	0.29	0.10	0.10	4.75	0.71	0.44	0.17
2.20	0.30	0.10	0.11	4.80	0.72	0.45	0.17
2.25	0.30	0.11	0.11	4.85	0.73	0.45	0.18
2.30	0.31	0.11	0.11	4.90	0.74	0.46	0.18
2.35	0.32	0.12	0.11	4.95	0.74	0.47	0.18
2.40	0.33	0.12	0.11	5.00	0.75	0.48	0.18
2.45	0.33	0.13	0.12	5.05	0.76	0.49	0.18
2.50	0.34	0.13	0.12	5.10	0.77	0.49	0.18
2.55	0.35	0.14	0.12	5.15	0.78	0.50	0.18

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.79	0.51	0.18	7.80	1.36	1.05	0.29
5.25	0.80	0.52	0.18	7.85	1.38	1.06	0.30
5.30	0.81	0.53	0.18	7.90	1.39	1.08	0.30
5.35	0.82	0.54	0.18	7.95	1.40	1.09	0.30
5.40	0.83	0.54	0.19	8.00	1.42	1.10	0.30
5.45	0.83	0.55	0.19	8.05	1.43	1.12	0.31
5.50	0.84	0.56	0.19	8.10	1.45	1.13	0.31
5.55	0.85	0.57	0.19	8.15	1.46	1.15	0.31
5.60	0.86	0.58	0.19	8.20	1.48	1.16	0.31
5.65	0.87	0.59	0.19	8.25	1.49	1.18	0.32
5.70	0.88	0.60	0.19	8.30	1.51	1.19	0.32
5.75	0.89	0.60	0.19	8.35	1.52	1.20	0.32
5.80	0.90	0.61	0.19	8.40	1.54	1.22	0.32
5.85	0.91	0.62	0.19	8.45	1.55	1.23	0.33
5.90	0.92	0.63	0.19	8.50	1.57	1.25	0.33
5.95	0.93	0.64	0.20	8.55	1.58	1.26	0.33
6.00	0.94	0.65	0.20	8.60	1.60	1.28	0.34
6.05	0.95	0.66	0.20	8.65	1.62	1.30	0.34
6.10	0.96	0.67	0.20	8.70	1.63	1.31	0.34
6.15	0.97	0.68	0.20	8.75	1.65	1.33	0.34
6.20	0.98	0.68	0.21	8.80	1.66	1.34	0.35
6.25	0.99	0.69	0.21	8.85	1.68	1.36	0.35
6.30	1.00	0.70	0.21	8.90	1.70	1.37	0.35
6.35	1.01	0.71	0.21	8.95	1.71	1.39	0.35
6.40	1.02	0.72	0.22	9.00	1.73	1.41	0.36
6.45	1.03	0.73	0.22	9.05	1.75	1.42	0.37
6.50	1.04	0.74	0.22	9.10	1.76	1.44	0.37
6.55	1.05	0.75	0.23	9.15	1.78	1.46	0.38
6.60	1.06	0.76	0.23	9.20	1.80	1.48	0.39
6.65	1.07	0.78	0.23	9.25	1.82	1.50	0.40
6.70	1.09	0.79	0.23	9.30	1.84	1.51	0.41
6.75	1.10	0.80	0.24	9.35	1.86	1.53	0.42
6.80	1.11	0.81	0.24	9.40	1.88	1.55	0.43
6.85	1.12	0.82	0.24	9.45	1.90	1.57	0.44
6.90	1.13	0.83	0.24	9.50	1.92	1.59	0.45
6.95	1.14	0.84	0.25	9.55	1.94	1.62	0.46
7.00	1.15	0.85	0.25	9.60	1.97	1.64	0.47
7.05	1.17	0.86	0.25	9.65	1.99	1.66	0.48
7.10	1.18	0.88	0.25	9.70	2.01	1.68	0.49
7.15	1.19	0.89	0.26	9.75	2.03	1.71	0.50
7.20	1.20	0.90	0.26	9.80	2.06	1.73	0.51
7.25	1.22	0.91	0.26	9.85	2.08	1.75	0.52
7.30	1.23	0.92	0.26	9.90	2.11	1.78	0.53
7.35	1.24	0.93	0.27	9.95	2.13	1.80	0.54
7.40	1.25	0.95	0.27	10.00	2.16	1.83	0.55
7.45	1.27	0.96	0.27	10.05	2.19	1.85	0.56
7.50	1.28	0.97	0.28	10.10	2.21	1.88	0.57
7.55	1.29	0.99	0.28	10.15	2.24	1.91	0.58
7.60	1.31	1.00	0.28	10.20	2.27	1.93	0.59
7.65	1.32	1.01	0.28	10.25	2.29	1.96	0.60
7.70	1.33	1.02	0.29	10.30	2.32	1.99	0.61
7.75	1.35	1.04	0.29	10.35	2.35	2.02	0.62

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	2.38	2.05	0.63	13.00	9.00	8.64	1.22
10.45	2.41	2.08	0.64	13.05	9.05	8.68	1.15
10.50	2.44	2.10	0.65	13.10	9.09	8.73	1.08
10.55	2.47	2.14	0.68	13.15	9.14	8.77	1.03
10.60	2.51	2.17	0.71	13.20	9.18	8.82	0.99
10.65	2.54	2.21	0.75	13.25	9.22	8.86	0.95
10.70	2.58	2.24	0.78	13.30	9.26	8.90	0.91
10.75	2.62	2.28	0.82	13.35	9.30	8.94	0.87
10.80	2.66	2.32	0.86	13.40	9.33	8.97	0.84
10.85	2.70	2.37	0.90	13.45	9.37	9.01	0.80
10.90	2.75	2.41	0.93	13.50	9.40	9.04	0.76
10.95	2.79	2.45	0.97	13.55	9.43	9.07	0.72
11.00	2.84	2.50	1.01	13.60	9.46	9.10	0.69
11.05	2.89	2.55	1.07	13.65	9.49	9.13	0.67
11.10	2.95	2.61	1.13	13.70	9.52	9.16	0.65
11.15	3.01	2.67	1.21	13.75	9.55	9.18	0.64
11.20	3.07	2.73	1.27	13.80	9.57	9.21	0.63
11.25	3.13	2.79	1.35	13.85	9.60	9.24	0.62
11.30	3.20	2.86	1.41	13.90	9.63	9.27	0.61
11.35	3.27	2.93	1.49	13.95	9.65	9.29	0.60
11.40	3.34	3.00	1.55	14.00	9.68	9.32	0.59
11.45	3.42	3.08	1.62	14.05	9.71	9.35	0.58
11.50	3.50	3.15	1.67	14.10	9.73	9.37	0.57
11.55	3.62	3.27	2.03	14.15	9.76	9.40	0.56
11.60	3.74	3.39	2.38	14.20	9.78	9.42	0.55
11.65	3.86	3.52	2.58	14.25	9.81	9.44	0.54
11.70	3.99	3.64	2.70	14.30	9.83	9.47	0.53
11.75	4.16	3.81	3.13	14.35	9.85	9.49	0.52
11.80	4.34	3.99	3.52	14.40	9.87	9.51	0.51
11.85	4.58	4.22	4.24	14.45	9.90	9.53	0.50
11.90	4.82	4.46	4.86	14.50	9.92	9.56	0.49
11.95	5.23	4.88	6.52	14.55	9.94	9.58	0.48
12.00	5.64	5.29	8.05	14.60	9.96	9.60	0.47
12.05	6.33	5.98	10.94	14.65	9.98	9.62	0.46
12.10	7.02	6.67	**13.48**	14.70	10.00	9.64	0.45
12.15	7.26	6.91	**10.96**	14.75	10.02	9.66	0.44
12.20	7.50	7.15	7.78	14.80	10.04	9.68	0.43
12.25	7.68	7.32	5.80	14.85	10.06	9.70	0.42
12.30	7.85	7.49	4.59	14.90	10.08	9.71	0.41
12.35	7.98	7.62	3.73	14.95	10.09	9.73	0.40
12.40	8.10	7.74	3.16	15.00	10.11	9.75	0.39
12.45	8.22	7.86	2.87	15.05	10.13	9.77	0.38
12.50	8.34	7.98	2.73	15.10	10.14	9.78	0.37
12.55	8.42	8.06	2.34	15.15	10.16	9.80	0.37
12.60	8.50	8.14	1.98	15.20	10.18	9.81	0.36
12.65	8.57	8.21	1.78	15.25	10.19	9.83	0.36
12.70	8.64	8.28	1.67	15.30	10.21	9.85	0.36
12.75	8.71	8.35	1.58	15.35	10.22	9.86	0.36
12.80	8.77	8.41	1.51	15.40	10.24	9.88	0.35
12.85	8.83	8.47	1.43	15.45	10.26	9.89	0.35
12.90	8.89	8.53	1.37	15.50	10.27	9.91	0.35
12.95	8.95	8.58	1.29	15.55	10.29	9.93	0.35

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	10.30	9.94	0.34	18.20	10.94	10.58	0.21
15.65	10.32	9.96	0.34	18.25	10.95	10.59	0.21
15.70	10.33	9.97	0.34	18.30	10.96	10.60	0.21
15.75	10.35	9.99	0.33	18.35	10.97	10.61	0.21
15.80	10.36	10.00	0.33	18.40	10.98	10.61	0.21
15.85	10.38	10.02	0.33	18.45	10.99	10.62	0.21
15.90	10.39	10.03	0.33	18.50	11.00	10.63	0.21
15.95	10.41	10.04	0.32	18.55	11.01	10.64	0.21
16.00	10.42	10.06	0.32	18.60	11.01	10.65	0.21
16.05	10.44	10.07	0.32	18.65	11.02	10.66	0.20
16.10	10.45	10.09	0.32	18.70	11.03	10.67	0.20
16.15	10.46	10.10	0.31	18.75	11.04	10.68	0.20
16.20	10.48	10.12	0.31	18.80	11.05	10.69	0.20
16.25	10.49	10.13	0.31	18.85	11.06	10.70	0.20
16.30	10.51	10.14	0.31	18.90	11.07	10.71	0.20
16.35	10.52	10.16	0.30	18.95	11.08	10.72	0.20
16.40	10.53	10.17	0.30	19.00	11.09	10.72	0.20
16.45	10.55	10.18	0.30	19.05	11.10	10.73	0.20
16.50	10.56	10.20	0.30	19.10	11.10	10.74	0.20
16.55	10.57	10.21	0.29	19.15	11.11	10.75	0.20
16.60	10.59	10.22	0.29	19.20	11.12	10.76	0.20
16.65	10.60	10.24	0.29	19.25	11.13	10.77	0.20
16.70	10.61	10.25	0.29	19.30	11.14	10.78	0.20
16.75	10.62	10.26	0.28	19.35	11.15	10.79	0.20
16.80	10.64	10.27	0.28	19.40	11.16	10.80	0.19
16.85	10.65	10.29	0.28	19.45	11.17	10.80	0.19
16.90	10.66	10.30	0.28	19.50	11.18	10.81	0.19
16.95	10.67	10.31	0.27	19.55	11.18	10.82	0.19
17.00	10.69	10.32	0.27	19.60	11.19	10.83	0.19
17.05	10.70	10.33	0.27	19.65	11.20	10.84	0.19
17.10	10.71	10.35	0.27	19.70	11.21	10.85	0.19
17.15	10.72	10.36	0.26	19.75	11.22	10.86	0.19
17.20	10.73	10.37	0.26	19.80	11.23	10.86	0.19
17.25	10.74	10.38	0.26	19.85	11.24	10.87	0.19
17.30	10.75	10.39	0.25	19.90	11.24	10.88	0.19
17.35	10.77	10.40	0.25	19.95	11.25	10.89	0.19
17.40	10.78	10.41	0.25	20.00	11.26	10.90	0.19
17.45	10.79	10.43	0.25	20.05	11.27	10.91	0.19
17.50	10.80	10.44	0.24	20.10	11.28	10.91	0.19
17.55	10.81	10.45	0.24	20.15	11.29	10.92	0.18
17.60	10.82	10.46	0.24	20.20	11.29	10.93	0.18
17.65	10.83	10.47	0.24	20.25	11.30	10.94	0.18
17.70	10.84	10.48	0.23	20.30	11.31	10.95	0.18
17.75	10.85	10.49	0.23	20.35	11.32	10.96	0.18
17.80	10.86	10.50	0.23	20.40	11.33	10.96	0.18
17.85	10.87	10.51	0.23	20.45	11.33	10.97	0.18
17.90	10.88	10.52	0.22	20.50	11.34	10.98	0.18
17.95	10.89	10.53	0.22	20.55	11.35	10.99	0.18
18.00	10.90	10.54	0.22	20.60	11.36	11.00	0.18
18.05	10.91	10.55	0.22	20.65	11.37	11.00	0.18
18.10	10.92	10.56	0.21	20.70	11.38	11.01	0.18
18.15	10.93	10.57	0.21	20.75	11.38	11.02	0.18

Hydrograph for Subcatchment EDA1A IMP: EDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	11.39	11.03	0.18	23.40	11.76	11.40	0.14
20.85	11.40	11.04	0.18	23.45	11.77	11.41	0.14
20.90	11.41	11.04	0.17	23.50	11.78	11.41	0.14
20.95	11.41	11.05	0.17	23.55	11.78	11.42	0.14
21.00	11.42	11.06	0.17	23.60	11.79	11.42	0.14
21.05	11.43	11.07	0.17	23.65	11.79	11.43	0.14
21.10	11.44	11.07	0.17	23.70	11.80	11.44	0.14
21.15	11.45	11.08	0.17	23.75	11.81	11.44	0.14
21.20	11.45	11.09	0.17	23.80	11.81	11.45	0.14
21.25	11.46	11.10	0.17	23.85	11.82	11.46	0.14
21.30	11.47	11.11	0.17	23.90	11.82	11.46	0.14
21.35	11.48	11.11	0.17	23.95	11.83	11.47	0.15
21.40	11.48	11.12	0.17	24.00	**11.84**	**11.48**	0.16
21.45	11.49	11.13	0.17				
21.50	11.50	11.14	0.17				
21.55	11.51	11.14	0.17				
21.60	11.51	11.15	0.17				
21.65	11.52	11.16	0.17				
21.70	11.53	11.17	0.16				
21.75	11.54	11.17	0.16				
21.80	11.54	11.18	0.16				
21.85	11.55	11.19	0.16				
21.90	11.56	11.19	0.16				
21.95	11.57	11.20	0.16				
22.00	11.57	11.21	0.16				
22.05	11.58	11.22	0.16				
22.10	11.59	11.22	0.16				
22.15	11.59	11.23	0.16				
22.20	11.60	11.24	0.16				
22.25	11.61	11.24	0.16				
22.30	11.62	11.25	0.16				
22.35	11.62	11.26	0.16				
22.40	11.63	11.27	0.16				
22.45	11.64	11.27	0.15				
22.50	11.64	11.28	0.15				
22.55	11.65	11.29	0.15				
22.60	11.66	11.29	0.15				
22.65	11.66	11.30	0.15				
22.70	11.67	11.31	0.15				
22.75	11.68	11.31	0.15				
22.80	11.68	11.32	0.15				
22.85	11.69	11.33	0.15				
22.90	11.70	11.33	0.15				
22.95	11.70	11.34	0.15				
23.00	11.71	11.35	0.15				
23.05	11.72	11.35	0.15				
23.10	11.72	11.36	0.15				
23.15	11.73	11.37	0.15				
23.20	11.74	11.37	0.14				
23.25	11.74	11.38	0.14				
23.30	11.75	11.39	0.14				
23.35	11.76	11.39	0.14				

Summary for Subcatchment EDA1A PERV: EDA-1A PERV

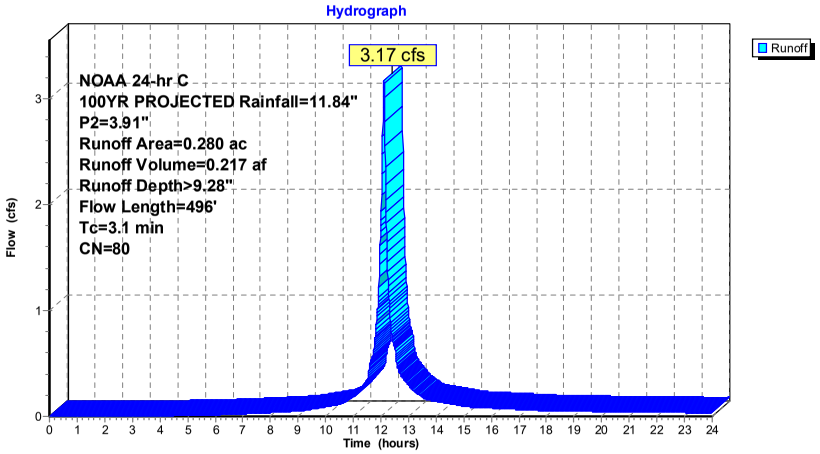
Runoff = 3.17 cfs @ 12.11 hrs, Volume= 0.217 af, Depth> 9.28"
Routed to Link E1A : E1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"

Area (ac)	CN	Description
0.280	80	>75% Grass cover, Good, HSG D
0.280		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0100	1.15		**Sheet Flow, paved** Smooth surfaces n= 0.011 P2= 3.91"
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP-2 Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
3.1	496	Total			

Subcatchment EDA1A PERV: EDA-1A PERV



Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.36	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.36	0.00	0.00
0.10	0.02	0.00	0.00	2.70	0.37	0.00	0.00
0.15	0.02	0.00	0.00	2.75	0.38	0.00	0.00
0.20	0.03	0.00	0.00	2.80	0.39	0.00	0.00
0.25	0.03	0.00	0.00	2.85	0.39	0.00	0.00
0.30	0.04	0.00	0.00	2.90	0.40	0.00	0.00
0.35	0.05	0.00	0.00	2.95	0.41	0.00	0.00
0.40	0.05	0.00	0.00	3.00	0.42	0.00	0.00
0.45	0.06	0.00	0.00	3.05	0.43	0.00	0.00
0.50	0.06	0.00	0.00	3.10	0.43	0.00	0.00
0.55	0.07	0.00	0.00	3.15	0.44	0.00	0.00
0.60	0.08	0.00	0.00	3.20	0.45	0.00	0.00
0.65	0.08	0.00	0.00	3.25	0.46	0.00	0.00
0.70	0.09	0.00	0.00	3.30	0.46	0.00	0.00
0.75	0.10	0.00	0.00	3.35	0.47	0.00	0.00
0.80	0.10	0.00	0.00	3.40	0.48	0.00	0.00
0.85	0.11	0.00	0.00	3.45	0.49	0.00	0.00
0.90	0.12	0.00	0.00	3.50	0.50	0.00	0.00
0.95	0.12	0.00	0.00	3.55	0.51	0.00	0.00
1.00	0.13	0.00	0.00	3.60	0.51	0.00	0.00
1.05	0.14	0.00	0.00	3.65	0.52	0.00	0.00
1.10	0.14	0.00	0.00	3.70	0.53	0.00	0.00
1.15	0.15	0.00	0.00	3.75	0.54	0.00	0.00
1.20	0.16	0.00	0.00	3.80	0.55	0.00	0.00
1.25	0.16	0.00	0.00	3.85	0.55	0.00	0.00
1.30	0.17	0.00	0.00	3.90	0.56	0.00	0.00
1.35	0.18	0.00	0.00	3.95	0.57	0.00	0.00
1.40	0.18	0.00	0.00	4.00	0.58	0.00	0.00
1.45	0.19	0.00	0.00	4.05	0.59	0.00	0.00
1.50	0.20	0.00	0.00	4.10	0.60	0.00	0.00
1.55	0.20	0.00	0.00	4.15	0.60	0.00	0.00
1.60	0.21	0.00	0.00	4.20	0.61	0.00	0.00
1.65	0.22	0.00	0.00	4.25	0.62	0.01	0.00
1.70	0.22	0.00	0.00	4.30	0.63	0.01	0.00
1.75	0.23	0.00	0.00	4.35	0.64	0.01	0.00
1.80	0.24	0.00	0.00	4.40	0.65	0.01	0.00
1.85	0.25	0.00	0.00	4.45	0.66	0.01	0.01
1.90	0.25	0.00	0.00	4.50	0.66	0.01	0.01
1.95	0.26	0.00	0.00	4.55	0.67	0.01	0.01
2.00	0.27	0.00	0.00	4.60	0.68	0.01	0.01
2.05	0.27	0.00	0.00	4.65	0.69	0.01	0.01
2.10	0.28	0.00	0.00	4.70	0.70	0.01	0.01
2.15	0.29	0.00	0.00	4.75	0.71	0.02	0.01
2.20	0.30	0.00	0.00	4.80	0.72	0.02	0.01
2.25	0.30	0.00	0.00	4.85	0.73	0.02	0.01
2.30	0.31	0.00	0.00	4.90	0.74	0.02	0.01
2.35	0.32	0.00	0.00	4.95	0.74	0.02	0.01
2.40	0.33	0.00	0.00	5.00	0.75	0.02	0.01
2.45	0.33	0.00	0.00	5.05	0.76	0.02	0.01
2.50	0.34	0.00	0.00	5.10	0.77	0.03	0.01
2.55	0.35	0.00	0.00	5.15	0.78	0.03	0.01

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.79	0.03	0.01	7.80	1.36	0.22	0.03
5.25	0.80	0.03	0.01	7.85	1.38	0.23	0.03
5.30	0.81	0.03	0.01	7.90	1.39	0.23	0.04
5.35	0.82	0.04	0.01	7.95	1.40	0.24	0.04
5.40	0.83	0.04	0.01	8.00	1.42	0.25	0.04
5.45	0.83	0.04	0.01	8.05	1.43	0.25	0.04
5.50	0.84	0.04	0.01	8.10	1.45	0.26	0.04
5.55	0.85	0.04	0.01	8.15	1.46	0.27	0.04
5.60	0.86	0.05	0.01	8.20	1.48	0.27	0.04
5.65	0.87	0.05	0.01	8.25	1.49	0.28	0.04
5.70	0.88	0.05	0.01	8.30	1.51	0.29	0.04
5.75	0.89	0.05	0.01	8.35	1.52	0.30	0.04
5.80	0.90	0.06	0.01	8.40	1.54	0.30	0.04
5.85	0.91	0.06	0.01	8.45	1.55	0.31	0.04
5.90	0.92	0.06	0.01	8.50	1.57	0.32	0.04
5.95	0.93	0.06	0.01	8.55	1.58	0.33	0.04
6.00	0.94	0.07	0.01	8.60	1.60	0.34	0.04
6.05	0.95	0.07	0.01	8.65	1.62	0.34	0.05
6.10	0.96	0.07	0.02	8.70	1.63	0.35	0.05
6.15	0.97	0.07	0.02	8.75	1.65	0.36	0.05
6.20	0.98	0.08	0.02	8.80	1.66	0.37	0.05
6.25	0.99	0.08	0.02	8.85	1.68	0.38	0.05
6.30	1.00	0.08	0.02	8.90	1.70	0.39	0.05
6.35	1.01	0.09	0.02	8.95	1.71	0.40	0.05
6.40	1.02	0.09	0.02	9.00	1.73	0.41	0.05
6.45	1.03	0.09	0.02	9.05	1.75	0.41	0.05
6.50	1.04	0.10	0.02	9.10	1.76	0.42	0.05
6.55	1.05	0.10	0.02	9.15	1.78	0.43	0.06
6.60	1.06	0.10	0.02	9.20	1.80	0.45	0.06
6.65	1.07	0.11	0.02	9.25	1.82	0.46	0.06
6.70	1.09	0.11	0.02	9.30	1.84	0.47	0.06
6.75	1.10	0.11	0.02	9.35	1.86	0.48	0.06
6.80	1.11	0.12	0.02	9.40	1.88	0.49	0.06
6.85	1.12	0.12	0.02	9.45	1.90	0.50	0.07
6.90	1.13	0.13	0.02	9.50	1.92	0.52	0.07
6.95	1.14	0.13	0.02	9.55	1.94	0.53	0.07
7.00	1.15	0.14	0.02	9.60	1.97	0.54	0.07
7.05	1.17	0.14	0.02	9.65	1.99	0.56	0.08
7.10	1.18	0.15	0.03	9.70	2.01	0.57	0.08
7.15	1.19	0.15	0.03	9.75	2.03	0.58	0.08
7.20	1.20	0.15	0.03	9.80	2.06	0.60	0.08
7.25	1.22	0.16	0.03	9.85	2.08	0.61	0.08
7.30	1.23	0.16	0.03	9.90	2.11	0.63	0.09
7.35	1.24	0.17	0.03	9.95	2.13	0.65	0.09
7.40	1.25	0.17	0.03	10.00	2.16	0.66	0.09
7.45	1.27	0.18	0.03	10.05	2.19	0.68	0.09
7.50	1.28	0.19	0.03	10.10	2.21	0.70	0.09
7.55	1.29	0.19	0.03	10.15	2.24	0.71	0.10
7.60	1.31	0.20	0.03	10.20	2.27	0.73	0.10
7.65	1.32	0.20	0.03	10.25	2.29	0.75	0.10
7.70	1.33	0.21	0.03	10.30	2.32	0.77	0.10
7.75	1.35	0.21	0.03	10.35	2.35	0.79	0.11

pre and post projected rainfall *NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"*
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Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	2.38	0.81	0.11	13.00	9.00	6.57	0.30
10.45	2.41	0.83	0.11	13.05	9.05	6.61	0.28
10.50	2.44	0.85	0.11	13.10	9.09	6.66	0.26
10.55	2.47	0.87	0.12	13.15	9.14	6.70	0.25
10.60	2.51	0.89	0.13	13.20	9.18	6.74	0.24
10.65	2.54	0.92	0.13	13.25	9.22	6.78	0.23
10.70	2.58	0.94	0.14	13.30	9.26	6.81	0.22
10.75	2.62	0.97	0.15	13.35	9.30	6.85	0.21
10.80	2.66	1.00	0.16	13.40	9.33	6.88	0.20
10.85	2.70	1.03	0.16	13.45	9.37	6.92	0.19
10.90	2.75	1.06	0.17	13.50	9.40	6.95	0.18
10.95	2.79	1.10	0.18	13.55	9.43	6.98	0.17
11.00	2.84	1.13	0.19	13.60	9.46	7.01	0.17
11.05	2.89	1.17	0.20	13.65	9.49	7.03	0.16
11.10	2.95	1.21	0.21	13.70	9.52	7.06	0.16
11.15	3.01	1.26	0.23	13.75	9.55	7.09	0.16
11.20	3.07	1.30	0.24	13.80	9.57	7.11	0.15
11.25	3.13	1.35	0.26	13.85	9.60	7.14	0.15
11.30	3.20	1.40	0.27	13.90	9.63	7.17	0.15
11.35	3.27	1.46	0.29	13.95	9.65	7.19	0.15
11.40	3.34	1.51	0.31	14.00	9.68	7.22	0.14
11.45	3.42	1.57	0.32	14.05	9.71	7.24	0.14
11.50	3.50	1.64	0.34	14.10	9.73	7.26	0.14
11.55	3.62	1.73	0.41	14.15	9.76	7.29	0.14
11.60	3.74	1.83	0.49	14.20	9.78	7.31	0.13
11.65	3.86	1.93	0.53	14.25	9.81	7.33	0.13
11.70	3.99	2.03	0.56	14.30	9.83	7.36	0.13
11.75	4.16	2.18	0.66	14.35	9.85	7.38	0.13
11.80	4.34	2.32	0.75	14.40	9.87	7.40	0.12
11.85	4.58	2.53	0.91	14.45	9.90	7.42	0.12
11.90	4.82	2.73	1.06	14.50	9.92	7.44	0.12
11.95	5.23	3.09	1.44	14.55	9.94	7.46	0.12
12.00	5.64	3.46	1.80	14.60	9.96	7.48	0.12
12.05	6.33	4.08	2.48	14.65	9.98	7.50	0.11
12.10	7.02	4.72	**3.11**	14.70	10.00	7.52	0.11
12.15	7.26	4.94	**2.55**	14.75	10.02	7.54	0.11
12.20	7.50	5.16	1.82	14.80	10.04	7.56	0.11
12.25	7.68	5.32	1.37	14.85	10.06	7.58	0.10
12.30	7.85	5.48	1.09	14.90	10.08	7.59	0.10
12.35	7.98	5.60	0.89	14.95	10.09	7.61	0.10
12.40	8.10	5.72	0.75	15.00	10.11	7.63	0.10
12.45	8.22	5.83	0.69	15.05	10.13	7.64	0.09
12.50	8.34	5.95	0.65	15.10	10.14	7.66	0.09
12.55	8.42	6.02	0.56	15.15	10.16	7.67	0.09
12.60	8.50	6.09	0.47	15.20	10.18	7.69	0.09
12.65	8.57	6.16	0.43	15.25	10.19	7.71	0.09
12.70	8.64	6.23	0.40	15.30	10.21	7.72	0.09
12.75	8.71	6.29	0.38	15.35	10.22	7.74	0.09
12.80	8.77	6.35	0.36	15.40	10.24	7.75	0.09
12.85	8.83	6.41	0.34	15.45	10.26	7.77	0.09
12.90	8.89	6.47	0.33	15.50	10.27	7.78	0.09
12.95	8.95	6.52	0.31	15.55	10.29	7.80	0.08

Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	10.30	7.81	0.08	18.20	10.94	8.42	0.05
15.65	10.32	7.83	0.08	18.25	10.95	8.43	0.05
15.70	10.33	7.84	0.08	18.30	10.96	8.44	0.05
15.75	10.35	7.85	0.08	18.35	10.97	8.45	0.05
15.80	10.36	7.87	0.08	18.40	10.98	8.46	0.05
15.85	10.38	7.88	0.08	18.45	10.99	8.47	0.05
15.90	10.39	7.90	0.08	18.50	11.00	8.48	0.05
15.95	10.41	7.91	0.08	18.55	11.01	8.49	0.05
16.00	10.42	7.92	0.08	18.60	11.01	8.49	0.05
16.05	10.44	7.94	0.08	18.65	11.02	8.50	0.05
16.10	10.45	7.95	0.08	18.70	11.03	8.51	0.05
16.15	10.46	7.97	0.08	18.75	11.04	8.52	0.05
16.20	10.48	7.98	0.08	18.80	11.05	8.53	0.05
16.25	10.49	7.99	0.08	18.85	11.06	8.54	0.05
16.30	10.51	8.01	0.07	18.90	11.07	8.55	0.05
16.35	10.52	8.02	0.07	18.95	11.08	8.56	0.05
16.40	10.53	8.03	0.07	19.00	11.09	8.56	0.05
16.45	10.55	8.04	0.07	19.05	11.10	8.57	0.05
16.50	10.56	8.06	0.07	19.10	11.10	8.58	0.05
16.55	10.57	8.07	0.07	19.15	11.11	8.59	0.05
16.60	10.59	8.08	0.07	19.20	11.12	8.60	0.05
16.65	10.60	8.09	0.07	19.25	11.13	8.61	0.05
16.70	10.61	8.11	0.07	19.30	11.14	8.62	0.05
16.75	10.62	8.12	0.07	19.35	11.15	8.62	0.05
16.80	10.64	8.13	0.07	19.40	11.16	8.63	0.05
16.85	10.65	8.14	0.07	19.45	11.17	8.64	0.05
16.90	10.66	8.15	0.07	19.50	11.18	8.65	0.05
16.95	10.67	8.17	0.07	19.55	11.18	8.66	0.05
17.00	10.69	8.18	0.07	19.60	11.19	8.67	0.05
17.05	10.70	8.19	0.07	19.65	11.20	8.67	0.05
17.10	10.71	8.20	0.06	19.70	11.21	8.68	0.05
17.15	10.72	8.21	0.06	19.75	11.22	8.69	0.05
17.20	10.73	8.22	0.06	19.80	11.23	8.70	0.05
17.25	10.74	8.23	0.06	19.85	11.24	8.71	0.05
17.30	10.75	8.24	0.06	19.90	11.24	8.72	0.05
17.35	10.77	8.26	0.06	19.95	11.25	8.72	0.05
17.40	10.78	8.27	0.06	20.00	11.26	8.73	0.05
17.45	10.79	8.28	0.06	20.05	11.27	8.74	0.05
17.50	10.80	8.29	0.06	20.10	11.28	8.75	0.05
17.55	10.81	8.30	0.06	20.15	11.29	8.76	0.05
17.60	10.82	8.31	0.06	20.20	11.29	8.76	0.05
17.65	10.83	8.32	0.06	20.25	11.30	8.77	0.05
17.70	10.84	8.33	0.06	20.30	11.31	8.78	0.04
17.75	10.85	8.34	0.06	20.35	11.32	8.79	0.04
17.80	10.86	8.35	0.06	20.40	11.33	8.80	0.04
17.85	10.87	8.36	0.06	20.45	11.33	8.80	0.04
17.90	10.88	8.37	0.05	20.50	11.34	8.81	0.04
17.95	10.89	8.38	0.05	20.55	11.35	8.82	0.04
18.00	10.90	8.39	0.05	20.60	11.36	8.83	0.04
18.05	10.91	8.40	0.05	20.65	11.37	8.83	0.04
18.10	10.92	8.40	0.05	20.70	11.38	8.84	0.04
18.15	10.93	8.41	0.05	20.75	11.38	8.85	0.04

pre and post projected rainfall *NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"*
Prepared by Pennoni Associates, Inc Printed 3/31/2026
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Hydrograph for Subcatchment EDA1A PERV: EDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	11.39	8.86	0.04	23.40	11.76	9.22	0.04
20.85	11.40	8.87	0.04	23.45	11.77	9.22	0.04
20.90	11.41	8.87	0.04	23.50	11.78	9.23	0.03
20.95	11.41	8.88	0.04	23.55	11.78	9.24	0.03
21.00	11.42	8.89	0.04	23.60	11.79	9.24	0.03
21.05	11.43	8.90	0.04	23.65	11.79	9.25	0.03
21.10	11.44	8.90	0.04	23.70	11.80	9.25	0.03
21.15	11.45	8.91	0.04	23.75	11.81	9.26	0.03
21.20	11.45	8.92	0.04	23.80	11.81	9.27	0.03
21.25	11.46	8.93	0.04	23.85	11.82	9.27	0.03
21.30	11.47	8.93	0.04	23.90	11.82	9.28	0.03
21.35	11.48	8.94	0.04	23.95	11.83	9.28	0.04
21.40	11.48	8.95	0.04	24.00	**11.84**	**9.29**	0.04
21.45	11.49	8.95	0.04				
21.50	11.50	8.96	0.04				
21.55	11.51	8.97	0.04				
21.60	11.51	8.98	0.04				
21.65	11.52	8.98	0.04				
21.70	11.53	8.99	0.04				
21.75	11.54	9.00	0.04				
21.80	11.54	9.00	0.04				
21.85	11.55	9.01	0.04				
21.90	11.56	9.02	0.04				
21.95	11.57	9.03	0.04				
22.00	11.57	9.03	0.04				
22.05	11.58	9.04	0.04				
22.10	11.59	9.05	0.04				
22.15	11.59	9.05	0.04				
22.20	11.60	9.06	0.04				
22.25	11.61	9.07	0.04				
22.30	11.62	9.07	0.04				
22.35	11.62	9.08	0.04				
22.40	11.63	9.09	0.04				
22.45	11.64	9.09	0.04				
22.50	11.64	9.10	0.04				
22.55	11.65	9.11	0.04				
22.60	11.66	9.11	0.04				
22.65	11.66	9.12	0.04				
22.70	11.67	9.13	0.04				
22.75	11.68	9.13	0.04				
22.80	11.68	9.14	0.04				
22.85	11.69	9.15	0.04				
22.90	11.70	9.15	0.04				
22.95	11.70	9.16	0.04				
23.00	11.71	9.17	0.04				
23.05	11.72	9.17	0.04				
23.10	11.72	9.18	0.04				
23.15	11.73	9.19	0.04				
23.20	11.74	9.19	0.04				
23.25	11.74	9.20	0.04				
23.30	11.75	9.20	0.04				
23.35	11.76	9.21	0.04				

Summary for Subcatchment EDA1B IMP: EDA1B IMP

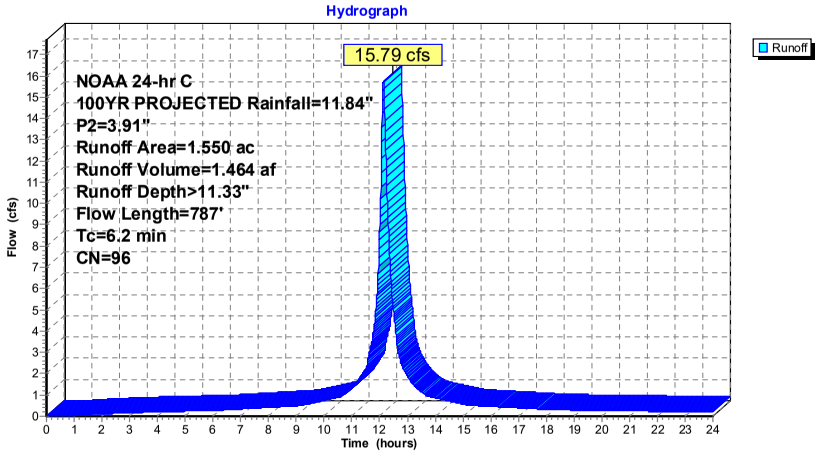
Runoff = 15.79 cfs @ 12.14 hrs, Volume= 1.464 af, Depth>11.33"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"

	Area (ac)	CN	Description
	0.940	96	Gravel surface, HSG A
	0.310	96	Gravel surface, HSG D
*	0.190	98	Impervious vehicular
*	0.110	98	Impervious non vehicular
	1.550	96	Weighted Average
	1.250		80.65% Pervious Area
	0.300		19.35% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	100	0.0100	1.15		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
1.0	93	0.0100	1.50		**Shallow Concentrated Flow, Paved** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.9	93	0.0011	1.71	3.02	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
6.2	787	Total			

Subcatchment EDA1B IMP: EDA1B IMP



Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.36	0.11	0.14
0.05	0.01	0.00	0.00	2.65	0.36	0.11	0.14
0.10	0.02	0.00	0.00	2.70	0.37	0.12	0.15
0.15	0.02	0.00	0.00	2.75	0.38	0.12	0.15
0.20	0.03	0.00	0.00	2.80	0.39	0.13	0.15
0.25	0.03	0.00	0.00	2.85	0.39	0.13	0.15
0.30	0.04	0.00	0.00	2.90	0.40	0.14	0.16
0.35	0.05	0.00	0.00	2.95	0.41	0.14	0.16
0.40	0.05	0.00	0.00	3.00	0.42	0.15	0.16
0.45	0.06	0.00	0.00	3.05	0.43	0.15	0.16
0.50	0.06	0.00	0.00	3.10	0.43	0.16	0.17
0.55	0.07	0.00	0.00	3.15	0.44	0.17	0.17
0.60	0.08	0.00	0.00	3.20	0.45	0.17	0.17
0.65	0.08	0.00	0.00	3.25	0.46	0.18	0.17
0.70	0.09	0.00	0.00	3.30	0.46	0.18	0.17
0.75	0.10	0.00	0.00	3.35	0.47	0.19	0.18
0.80	0.10	0.00	0.00	3.40	0.48	0.19	0.18
0.85	0.11	0.00	0.01	3.45	0.49	0.20	0.18
0.90	0.12	0.00	0.01	3.50	0.50	0.21	0.18
0.95	0.12	0.00	0.02	3.55	0.51	0.21	0.19
1.00	0.13	0.00	0.02	3.60	0.51	0.22	0.19
1.05	0.14	0.01	0.03	3.65	0.52	0.22	0.19
1.10	0.14	0.01	0.03	3.70	0.53	0.23	0.19
1.15	0.15	0.01	0.04	3.75	0.54	0.24	0.19
1.20	0.16	0.01	0.04	3.80	0.55	0.24	0.19
1.25	0.16	0.01	0.05	3.85	0.55	0.25	0.20
1.30	0.17	0.01	0.05	3.90	0.56	0.26	0.20
1.35	0.18	0.02	0.06	3.95	0.57	0.26	0.20
1.40	0.18	0.02	0.06	4.00	0.58	0.27	0.20
1.45	0.19	0.02	0.07	4.05	0.59	0.28	0.20
1.50	0.20	0.02	0.07	4.10	0.60	0.28	0.21
1.55	0.20	0.03	0.07	4.15	0.60	0.29	0.21
1.60	0.21	0.03	0.08	4.20	0.61	0.30	0.21
1.65	0.22	0.03	0.08	4.25	0.62	0.30	0.21
1.70	0.22	0.04	0.09	4.30	0.63	0.31	0.21
1.75	0.23	0.04	0.09	4.35	0.64	0.32	0.21
1.80	0.24	0.04	0.09	4.40	0.65	0.32	0.22
1.85	0.25	0.05	0.10	4.45	0.66	0.33	0.22
1.90	0.25	0.05	0.10	4.50	0.66	0.34	0.22
1.95	0.26	0.05	0.10	4.55	0.67	0.35	0.22
2.00	0.27	0.06	0.11	4.60	0.68	0.35	0.22
2.05	0.27	0.06	0.11	4.65	0.69	0.36	0.22
2.10	0.28	0.06	0.11	4.70	0.70	0.37	0.23
2.15	0.29	0.07	0.12	4.75	0.71	0.38	0.23
2.20	0.30	0.07	0.12	4.80	0.72	0.38	0.23
2.25	0.30	0.08	0.12	4.85	0.73	0.39	0.23
2.30	0.31	0.08	0.13	4.90	0.74	0.40	0.23
2.35	0.32	0.09	0.13	4.95	0.74	0.41	0.23
2.40	0.33	0.09	0.13	5.00	0.75	0.41	0.23
2.45	0.33	0.09	0.13	5.05	0.76	0.42	0.24
2.50	0.34	0.10	0.14	5.10	0.77	0.43	0.24
2.55	0.35	0.10	0.14	5.15	0.78	0.44	0.24

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.79	0.44	0.24	7.80	1.36	0.96	0.40
5.25	0.80	0.45	0.24	7.85	1.38	0.98	0.40
5.30	0.81	0.46	0.24	7.90	1.39	0.99	0.40
5.35	0.82	0.47	0.24	7.95	1.40	1.00	0.41
5.40	0.83	0.48	0.25	8.00	1.42	1.02	0.41
5.45	0.83	0.48	0.25	8.05	1.43	1.03	0.42
5.50	0.84	0.49	0.25	8.10	1.45	1.04	0.42
5.55	0.85	0.50	0.25	8.15	1.46	1.06	0.42
5.60	0.86	0.51	0.25	8.20	1.48	1.07	0.43
5.65	0.87	0.52	0.25	8.25	1.49	1.09	0.43
5.70	0.88	0.52	0.25	8.30	1.51	1.10	0.43
5.75	0.89	0.53	0.26	8.35	1.52	1.12	0.44
5.80	0.90	0.54	0.26	8.40	1.54	1.13	0.44
5.85	0.91	0.55	0.26	8.45	1.55	1.14	0.45
5.90	0.92	0.56	0.26	8.50	1.57	1.16	0.45
5.95	0.93	0.57	0.26	8.55	1.58	1.17	0.45
6.00	0.94	0.57	0.26	8.60	1.60	1.19	0.46
6.05	0.95	0.58	0.26	8.65	1.62	1.20	0.46
6.10	0.96	0.59	0.27	8.70	1.63	1.22	0.47
6.15	0.97	0.60	0.27	8.75	1.65	1.23	0.47
6.20	0.98	0.61	0.27	8.80	1.66	1.25	0.47
6.25	0.99	0.62	0.28	8.85	1.68	1.27	0.48
6.30	1.00	0.63	0.28	8.90	1.70	1.28	0.48
6.35	1.01	0.64	0.28	8.95	1.71	1.30	0.48
6.40	1.02	0.65	0.29	9.00	1.73	1.31	0.49
6.45	1.03	0.66	0.29	9.05	1.75	1.33	0.49
6.50	1.04	0.67	0.30	9.10	1.76	1.35	0.50
6.55	1.05	0.68	0.30	9.15	1.78	1.36	0.51
6.60	1.06	0.69	0.30	9.20	1.80	1.38	0.53
6.65	1.07	0.70	0.31	9.25	1.82	1.40	0.54
6.70	1.09	0.71	0.31	9.30	1.84	1.42	0.55
6.75	1.10	0.72	0.31	9.35	1.86	1.44	0.56
6.80	1.11	0.73	0.32	9.40	1.88	1.46	0.58
6.85	1.12	0.74	0.32	9.45	1.90	1.48	0.59
6.90	1.13	0.75	0.33	9.50	1.92	1.50	0.60
6.95	1.14	0.76	0.33	9.55	1.94	1.52	0.62
7.00	1.15	0.77	0.33	9.60	1.97	1.54	0.63
7.05	1.17	0.78	0.34	9.65	1.99	1.56	0.65
7.10	1.18	0.79	0.34	9.70	2.01	1.59	0.66
7.15	1.19	0.81	0.35	9.75	2.03	1.61	0.67
7.20	1.20	0.82	0.35	9.80	2.06	1.63	0.69
7.25	1.22	0.83	0.35	9.85	2.08	1.66	0.70
7.30	1.23	0.84	0.36	9.90	2.11	1.68	0.72
7.35	1.24	0.85	0.36	9.95	2.13	1.70	0.73
7.40	1.25	0.86	0.36	10.00	2.16	1.73	0.74
7.45	1.27	0.88	0.37	10.05	2.19	1.75	0.76
7.50	1.28	0.89	0.37	10.10	2.21	1.78	0.77
7.55	1.29	0.90	0.38	10.15	2.24	1.81	0.78
7.60	1.31	0.91	0.38	10.20	2.27	1.83	0.80
7.65	1.32	0.93	0.38	10.25	2.29	1.86	0.81
7.70	1.33	0.94	0.39	10.30	2.32	1.89	0.83
7.75	1.35	0.95	0.39	10.35	2.35	1.92	0.84

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	2.38	1.94	0.86	13.00	9.00	8.52	1.89
10.45	2.41	1.97	0.87	13.05	9.05	8.56	1.79
10.50	2.44	2.00	0.88	13.10	9.09	8.61	1.68
10.55	2.47	2.04	0.90	13.15	9.14	8.65	1.59
10.60	2.51	2.07	0.94	13.20	9.18	8.70	1.51
10.65	2.54	2.10	0.98	13.25	9.22	8.74	1.45
10.70	2.58	2.14	1.02	13.30	9.26	8.78	1.38
10.75	2.62	2.18	1.07	13.35	9.30	8.81	1.32
10.80	2.66	2.22	1.12	13.40	9.33	8.85	1.26
10.85	2.70	2.26	1.17	13.45	9.37	8.88	1.21
10.90	2.75	2.30	1.22	13.50	9.40	8.92	1.15
10.95	2.79	2.35	1.27	13.55	9.43	8.95	1.10
11.00	2.84	2.40	1.33	13.60	9.46	8.98	1.05
11.05	2.89	2.45	1.38	13.65	9.49	9.01	1.00
11.10	2.95	2.50	1.47	13.70	9.52	9.04	0.97
11.15	3.01	2.56	1.54	13.75	9.55	9.06	0.94
11.20	3.07	2.62	1.64	13.80	9.57	9.09	0.92
11.25	3.13	2.68	1.72	13.85	9.60	9.12	0.90
11.30	3.20	2.75	1.83	13.90	9.63	9.15	0.88
11.35	3.27	2.82	1.92	13.95	9.65	9.17	0.87
11.40	3.34	2.89	2.02	14.00	9.68	9.20	0.85
11.45	3.42	2.97	2.11	14.05	9.71	9.22	0.84
11.50	3.50	3.04	2.20	14.10	9.73	9.25	0.82
11.55	3.62	3.16	2.37	14.15	9.76	9.27	0.81
11.60	3.74	3.28	2.79	14.20	9.78	9.30	0.80
11.65	3.86	3.41	3.12	14.25	9.81	9.32	0.78
11.70	3.99	3.53	3.39	14.30	9.83	9.35	0.77
11.75	4.16	3.70	3.69	14.35	9.85	9.37	0.76
11.80	4.34	3.87	4.22	14.40	9.87	9.39	0.74
11.85	4.58	4.11	4.79	14.45	9.90	9.41	0.73
11.90	4.82	4.35	5.64	14.50	9.92	9.44	0.71
11.95	5.23	4.76	6.70	14.55	9.94	9.46	0.70
12.00	5.64	5.17	8.66	14.60	9.96	9.48	0.69
12.05	6.33	5.86	10.80	14.65	9.98	9.50	0.67
12.10	7.02	6.55	**14.25**	14.70	10.00	9.52	0.66
12.15	7.26	6.79	**15.70**	14.75	10.02	9.54	0.65
12.20	7.50	7.03	13.39	14.80	10.04	9.56	0.63
12.25	7.68	7.20	11.24	14.85	10.06	9.57	0.62
12.30	7.85	7.37	9.34	14.90	10.08	9.59	0.60
12.35	7.98	7.50	7.89	14.95	10.09	9.61	0.59
12.40	8.10	7.62	6.57	15.00	10.11	9.63	0.57
12.45	8.22	7.74	5.60	15.05	10.13	9.64	0.56
12.50	8.34	7.86	4.90	15.10	10.14	9.66	0.55
12.55	8.42	7.94	4.33	15.15	10.16	9.68	0.54
12.60	8.50	8.02	3.68	15.20	10.18	9.69	0.53
12.65	8.57	8.09	3.20	15.25	10.19	9.71	0.52
12.70	8.64	8.16	2.86	15.30	10.21	9.73	0.51
12.75	8.71	8.23	2.60	15.35	10.22	9.74	0.51
12.80	8.77	8.29	2.40	15.40	10.24	9.76	0.50
12.85	8.83	8.35	2.26	15.45	10.26	9.77	0.50
12.90	8.89	8.41	2.11	15.50	10.27	9.79	0.50
12.95	8.95	8.46	2.00	15.55	10.29	9.80	0.49

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	10.30	9.82	0.49	18.20	10.94	10.46	0.30
15.65	10.32	9.83	0.49	18.25	10.95	10.46	0.30
15.70	10.33	9.85	0.48	18.30	10.96	10.47	0.30
15.75	10.35	9.86	0.48	18.35	10.97	10.48	0.30
15.80	10.36	9.88	0.47	18.40	10.98	10.49	0.29
15.85	10.38	9.89	0.47	18.45	10.99	10.50	0.29
15.90	10.39	9.91	0.47	18.50	11.00	10.51	0.29
15.95	10.41	9.92	0.46	18.55	11.01	10.52	0.29
16.00	10.42	9.94	0.46	18.60	11.01	10.53	0.29
16.05	10.44	9.95	0.46	18.65	11.02	10.54	0.29
16.10	10.45	9.97	0.45	18.70	11.03	10.55	0.29
16.15	10.46	9.98	0.45	18.75	11.04	10.56	0.29
16.20	10.48	9.99	0.45	18.80	11.05	10.57	0.29
16.25	10.49	10.01	0.44	18.85	11.06	10.58	0.29
16.30	10.51	10.02	0.44	18.90	11.07	10.58	0.28
16.35	10.52	10.04	0.43	18.95	11.08	10.59	0.28
16.40	10.53	10.05	0.43	19.00	11.09	10.60	0.28
16.45	10.55	10.06	0.43	19.05	11.10	10.61	0.28
16.50	10.56	10.08	0.42	19.10	11.10	10.62	0.28
16.55	10.57	10.09	0.42	19.15	11.11	10.63	0.28
16.60	10.59	10.10	0.42	19.20	11.12	10.64	0.28
16.65	10.60	10.11	0.41	19.25	11.13	10.65	0.28
16.70	10.61	10.13	0.41	19.30	11.14	10.66	0.28
16.75	10.62	10.14	0.41	19.35	11.15	10.66	0.28
16.80	10.64	10.15	0.40	19.40	11.16	10.67	0.28
16.85	10.65	10.16	0.40	19.45	11.17	10.68	0.27
16.90	10.66	10.18	0.39	19.50	11.18	10.69	0.27
16.95	10.67	10.19	0.39	19.55	11.18	10.70	0.27
17.00	10.69	10.20	0.39	19.60	11.19	10.71	0.27
17.05	10.70	10.21	0.38	19.65	11.20	10.72	0.27
17.10	10.71	10.22	0.38	19.70	11.21	10.72	0.27
17.15	10.72	10.24	0.38	19.75	11.22	10.73	0.27
17.20	10.73	10.25	0.37	19.80	11.23	10.74	0.27
17.25	10.74	10.26	0.37	19.85	11.24	10.75	0.27
17.30	10.75	10.27	0.36	19.90	11.24	10.76	0.27
17.35	10.77	10.28	0.36	19.95	11.25	10.77	0.27
17.40	10.78	10.29	0.36	20.00	11.26	10.78	0.26
17.45	10.79	10.30	0.35	20.05	11.27	10.78	0.26
17.50	10.80	10.31	0.35	20.10	11.28	10.79	0.26
17.55	10.81	10.33	0.35	20.15	11.29	10.80	0.26
17.60	10.82	10.34	0.34	20.20	11.29	10.81	0.26
17.65	10.83	10.35	0.34	20.25	11.30	10.82	0.26
17.70	10.84	10.36	0.33	20.30	11.31	10.83	0.26
17.75	10.85	10.37	0.33	20.35	11.32	10.83	0.26
17.80	10.86	10.38	0.33	20.40	11.33	10.84	0.26
17.85	10.87	10.39	0.32	20.45	11.33	10.85	0.26
17.90	10.88	10.40	0.32	20.50	11.34	10.86	0.26
17.95	10.89	10.41	0.32	20.55	11.35	10.87	0.25
18.00	10.90	10.42	0.31	20.60	11.36	10.87	0.25
18.05	10.91	10.43	0.31	20.65	11.37	10.88	0.25
18.10	10.92	10.44	0.31	20.70	11.38	10.89	0.25
18.15	10.93	10.45	0.30	20.75	11.38	10.90	0.25

Hydrograph for Subcatchment EDA1B IMP: EDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	11.39	10.91	0.25	23.40	11.76	11.28	0.20
20.85	11.40	10.91	0.25	23.45	11.77	11.28	0.20
20.90	11.41	10.92	0.25	23.50	11.78	11.29	0.20
20.95	11.41	10.93	0.25	23.55	11.78	11.30	0.20
21.00	11.42	10.94	0.25	23.60	11.79	11.30	0.20
21.05	11.43	10.94	0.25	23.65	11.79	11.31	0.20
21.10	11.44	10.95	0.24	23.70	11.80	11.31	0.20
21.15	11.45	10.96	0.24	23.75	11.81	11.32	0.20
21.20	11.45	10.97	0.24	23.80	11.81	11.33	0.19
21.25	11.46	10.98	0.24	23.85	11.82	11.33	0.19
21.30	11.47	10.98	0.24	23.90	11.82	11.34	0.19
21.35	11.48	10.99	0.24	23.95	11.83	11.35	0.20
21.40	11.48	11.00	0.24	24.00	**11.84**	**11.35**	0.21
21.45	11.49	11.01	0.24				
21.50	11.50	11.01	0.24				
21.55	11.51	11.02	0.24				
21.60	11.51	11.03	0.23				
21.65	11.52	11.04	0.23				
21.70	11.53	11.04	0.23				
21.75	11.54	11.05	0.23				
21.80	11.54	11.06	0.23				
21.85	11.55	11.07	0.23				
21.90	11.56	11.07	0.23				
21.95	11.57	11.08	0.23				
22.00	11.57	11.09	0.23				
22.05	11.58	11.09	0.23				
22.10	11.59	11.10	0.23				
22.15	11.59	11.11	0.22				
22.20	11.60	11.12	0.22				
22.25	11.61	11.12	0.22				
22.30	11.62	11.13	0.22				
22.35	11.62	11.14	0.22				
22.40	11.63	11.14	0.22				
22.45	11.64	11.15	0.22				
22.50	11.64	11.16	0.22				
22.55	11.65	11.16	0.22				
22.60	11.66	11.17	0.22				
22.65	11.66	11.18	0.22				
22.70	11.67	11.18	0.22				
22.75	11.68	11.19	0.21				
22.80	11.68	11.20	0.21				
22.85	11.69	11.20	0.21				
22.90	11.70	11.21	0.21				
22.95	11.70	11.22	0.21				
23.00	11.71	11.23	0.21				
23.05	11.72	11.23	0.21				
23.10	11.72	11.24	0.21				
23.15	11.73	11.24	0.21				
23.20	11.74	11.25	0.21				
23.25	11.74	11.26	0.20				
23.30	11.75	11.26	0.20				
23.35	11.76	11.27	0.20				

Summary for Subcatchment EDA2 IMP: EDA2 IMP

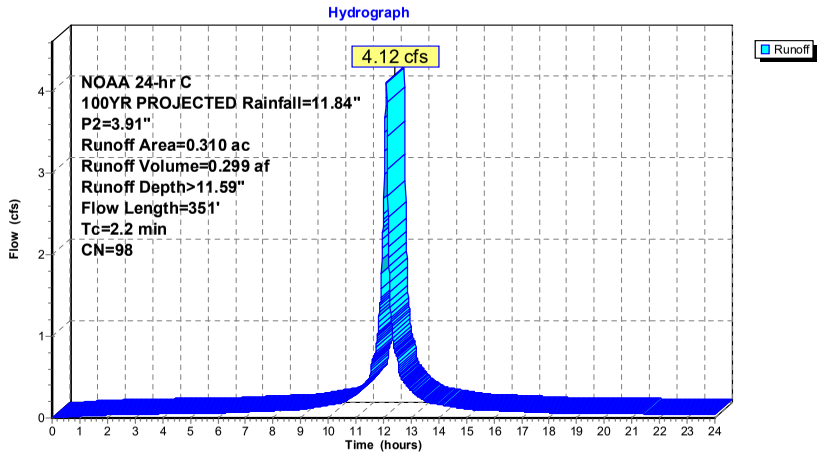
Runoff = 4.12 cfs @ 12.11 hrs, Volume= 0.299 af, Depth>11.59"
Routed to Link E1B : E1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"

	Area (ac)	CN	Description
*	0.310	98	Impervious vehicular
	0.310		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	100	0.0180	1.46		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
1.1	251	0.0360	3.85		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
2.2	351	Total			

Subcatchment EDA2 IMP: EDA2 IMP



Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.36	0.19	0.04
0.05	0.01	0.00	0.00	2.65	0.36	0.20	0.04
0.10	0.02	0.00	0.00	2.70	0.37	0.20	0.04
0.15	0.02	0.00	0.00	2.75	0.38	0.21	0.04
0.20	0.03	0.00	0.00	2.80	0.39	0.22	0.04
0.25	0.03	0.00	0.00	2.85	0.39	0.22	0.04
0.30	0.04	0.00	0.00	2.90	0.40	0.23	0.04
0.35	0.05	0.00	0.00	2.95	0.41	0.24	0.04
0.40	0.05	0.00	0.00	3.00	0.42	0.24	0.04
0.45	0.06	0.00	0.00	3.05	0.43	0.25	0.04
0.50	0.06	0.00	0.01	3.10	0.43	0.26	0.04
0.55	0.07	0.00	0.01	3.15	0.44	0.27	0.04
0.60	0.08	0.01	0.01	3.20	0.45	0.27	0.04
0.65	0.08	0.01	0.01	3.25	0.46	0.28	0.04
0.70	0.09	0.01	0.01	3.30	0.46	0.29	0.04
0.75	0.10	0.01	0.01	3.35	0.47	0.29	0.04
0.80	0.10	0.01	0.02	3.40	0.48	0.30	0.04
0.85	0.11	0.02	0.02	3.45	0.49	0.31	0.05
0.90	0.12	0.02	0.02	3.50	0.50	0.32	0.05
0.95	0.12	0.02	0.02	3.55	0.51	0.32	0.05
1.00	0.13	0.03	0.02	3.60	0.51	0.33	0.05
1.05	0.14	0.03	0.02	3.65	0.52	0.34	0.05
1.10	0.14	0.03	0.02	3.70	0.53	0.34	0.05
1.15	0.15	0.04	0.02	3.75	0.54	0.35	0.05
1.20	0.16	0.04	0.02	3.80	0.55	0.36	0.05
1.25	0.16	0.05	0.02	3.85	0.55	0.37	0.05
1.30	0.17	0.05	0.03	3.90	0.56	0.38	0.05
1.35	0.18	0.05	0.03	3.95	0.57	0.38	0.05
1.40	0.18	0.06	0.03	4.00	0.58	0.39	0.05
1.45	0.19	0.06	0.03	4.05	0.59	0.40	0.05
1.50	0.20	0.07	0.03	4.10	0.60	0.41	0.05
1.55	0.20	0.07	0.03	4.15	0.60	0.41	0.05
1.60	0.21	0.08	0.03	4.20	0.61	0.42	0.05
1.65	0.22	0.08	0.03	4.25	0.62	0.43	0.05
1.70	0.22	0.09	0.03	4.30	0.63	0.44	0.05
1.75	0.23	0.09	0.03	4.35	0.64	0.45	0.05
1.80	0.24	0.10	0.03	4.40	0.65	0.45	0.05
1.85	0.25	0.10	0.03	4.45	0.66	0.46	0.05
1.90	0.25	0.11	0.03	4.50	0.66	0.47	0.05
1.95	0.26	0.11	0.03	4.55	0.67	0.48	0.05
2.00	0.27	0.12	0.03	4.60	0.68	0.49	0.05
2.05	0.27	0.13	0.03	4.65	0.69	0.49	0.05
2.10	0.28	0.13	0.04	4.70	0.70	0.50	0.05
2.15	0.29	0.14	0.04	4.75	0.71	0.51	0.05
2.20	0.30	0.14	0.04	4.80	0.72	0.52	0.05
2.25	0.30	0.15	0.04	4.85	0.73	0.53	0.05
2.30	0.31	0.15	0.04	4.90	0.74	0.54	0.05
2.35	0.32	0.16	0.04	4.95	0.74	0.55	0.05
2.40	0.33	0.17	0.04	5.00	0.75	0.55	0.05
2.45	0.33	0.17	0.04	5.05	0.76	0.56	0.05
2.50	0.34	0.18	0.04	5.10	0.77	0.57	0.05
2.55	0.35	0.19	0.04	5.15	0.78	0.58	0.05

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.79	0.59	0.05	7.80	1.36	1.14	0.08
5.25	0.80	0.60	0.05	7.85	1.38	1.16	0.09
5.30	0.81	0.61	0.05	7.90	1.39	1.17	0.09
5.35	0.82	0.61	0.05	7.95	1.40	1.19	0.09
5.40	0.83	0.62	0.05	8.00	1.42	1.20	0.09
5.45	0.83	0.63	0.06	8.05	1.43	1.21	0.09
5.50	0.84	0.64	0.06	8.10	1.45	1.23	0.09
5.55	0.85	0.65	0.06	8.15	1.46	1.24	0.09
5.60	0.86	0.66	0.06	8.20	1.48	1.26	0.09
5.65	0.87	0.67	0.06	8.25	1.49	1.27	0.09
5.70	0.88	0.68	0.06	8.30	1.51	1.29	0.09
5.75	0.89	0.69	0.06	8.35	1.52	1.30	0.09
5.80	0.90	0.69	0.06	8.40	1.54	1.32	0.09
5.85	0.91	0.70	0.06	8.45	1.55	1.33	0.09
5.90	0.92	0.71	0.06	8.50	1.57	1.35	0.09
5.95	0.93	0.72	0.06	8.55	1.58	1.36	0.10
6.00	0.94	0.73	0.06	8.60	1.60	1.38	0.10
6.05	0.95	0.74	0.06	8.65	1.62	1.39	0.10
6.10	0.96	0.75	0.06	8.70	1.63	1.41	0.10
6.15	0.97	0.76	0.06	8.75	1.65	1.43	0.10
6.20	0.98	0.77	0.06	8.80	1.66	1.44	0.10
6.25	0.99	0.78	0.06	8.85	1.68	1.46	0.10
6.30	1.00	0.79	0.06	8.90	1.70	1.47	0.10
6.35	1.01	0.80	0.06	8.95	1.71	1.49	0.10
6.40	1.02	0.81	0.06	9.00	1.73	1.51	0.10
6.45	1.03	0.82	0.06	9.05	1.75	1.52	0.11
6.50	1.04	0.83	0.06	9.10	1.76	1.54	0.11
6.55	1.05	0.84	0.07	9.15	1.78	1.56	0.11
6.60	1.06	0.85	0.07	9.20	1.80	1.58	0.11
6.65	1.07	0.86	0.07	9.25	1.82	1.60	0.12
6.70	1.09	0.87	0.07	9.30	1.84	1.62	0.12
6.75	1.10	0.88	0.07	9.35	1.86	1.64	0.12
6.80	1.11	0.90	0.07	9.40	1.88	1.66	0.12
6.85	1.12	0.91	0.07	9.45	1.90	1.68	0.13
6.90	1.13	0.92	0.07	9.50	1.92	1.70	0.13
6.95	1.14	0.93	0.07	9.55	1.94	1.72	0.13
7.00	1.15	0.94	0.07	9.60	1.97	1.74	0.14
7.05	1.17	0.95	0.07	9.65	1.99	1.76	0.14
7.10	1.18	0.97	0.07	9.70	2.01	1.79	0.14
7.15	1.19	0.98	0.07	9.75	2.03	1.81	0.14
7.20	1.20	0.99	0.08	9.80	2.06	1.83	0.15
7.25	1.22	1.00	0.08	9.85	2.08	1.86	0.15
7.30	1.23	1.01	0.08	9.90	2.11	1.88	0.15
7.35	1.24	1.03	0.08	9.95	2.13	1.91	0.16
7.40	1.25	1.04	0.08	10.00	2.16	1.93	0.16
7.45	1.27	1.05	0.08	10.05	2.19	1.96	0.16
7.50	1.28	1.06	0.08	10.10	2.21	1.98	0.16
7.55	1.29	1.08	0.08	10.15	2.24	2.01	0.17
7.60	1.31	1.09	0.08	10.20	2.27	2.04	0.17
7.65	1.32	1.10	0.08	10.25	2.29	2.07	0.17
7.70	1.33	1.12	0.08	10.30	2.32	2.09	0.17
7.75	1.35	1.13	0.08	10.35	2.35	2.12	0.18

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	2.38	2.15	0.18	13.00	9.00	8.76	0.34
10.45	2.41	2.18	0.18	13.05	9.05	8.81	0.31
10.50	2.44	2.21	0.19	13.10	9.09	8.85	0.30
10.55	2.47	2.24	0.20	13.15	9.14	8.90	0.28
10.60	2.51	2.28	0.20	13.20	9.18	8.94	0.27
10.65	2.54	2.31	0.22	13.25	9.22	8.98	0.26
10.70	2.58	2.35	0.23	13.30	9.26	9.02	0.25
10.75	2.62	2.39	0.24	13.35	9.30	9.06	0.24
10.80	2.66	2.43	0.25	13.40	9.33	9.09	0.23
10.85	2.70	2.47	0.26	13.45	9.37	9.13	0.22
10.90	2.75	2.52	0.27	13.50	9.40	9.16	0.21
10.95	2.79	2.56	0.28	13.55	9.43	9.19	0.20
11.00	2.84	2.61	0.29	13.60	9.46	9.22	0.19
11.05	2.89	2.66	0.31	13.65	9.49	9.25	0.18
11.10	2.95	2.72	0.33	13.70	9.52	9.28	0.18
11.15	3.01	2.78	0.35	13.75	9.55	9.31	0.18
11.20	3.07	2.84	0.37	13.80	9.57	9.33	0.18
11.25	3.13	2.90	0.39	13.85	9.60	9.36	0.17
11.30	3.20	2.97	0.41	13.90	9.63	9.39	0.17
11.35	3.27	3.04	0.43	13.95	9.65	9.41	0.17
11.40	3.34	3.11	0.45	14.00	9.68	9.44	0.17
11.45	3.42	3.19	0.47	14.05	9.71	9.47	0.16
11.50	3.50	3.27	0.48	14.10	9.73	9.49	0.16
11.55	3.62	3.38	0.63	14.15	9.76	9.52	0.16
11.60	3.74	3.50	0.71	14.20	9.78	9.54	0.15
11.65	3.86	3.63	0.76	14.25	9.81	9.56	0.15
11.70	3.99	3.76	0.78	14.30	9.83	9.59	0.15
11.75	4.16	3.93	0.94	14.35	9.85	9.61	0.15
11.80	4.34	4.10	1.04	14.40	9.87	9.63	0.14
11.85	4.58	4.34	1.30	14.45	9.90	9.66	0.14
11.90	4.82	4.58	1.44	14.50	9.92	9.68	0.14
11.95	5.23	4.99	2.08	14.55	9.94	9.70	0.13
12.00	5.64	5.41	2.44	14.60	9.96	9.72	0.13
12.05	6.33	6.10	3.50	14.65	9.98	9.74	0.13
12.10	7.02	6.79	**4.08**	14.70	10.00	9.76	0.13
12.15	7.26	7.03	**2.72**	14.75	10.02	9.78	0.12
12.20	7.50	7.26	1.86	14.80	10.04	9.80	0.12
12.25	7.68	7.44	1.35	14.85	10.06	9.82	0.12
12.30	7.85	7.61	1.15	14.90	10.08	9.84	0.12
12.35	7.98	7.74	0.93	14.95	10.09	9.85	0.11
12.40	8.10	7.86	0.83	15.00	10.11	9.87	0.11
12.45	8.22	7.98	0.77	15.05	10.13	9.89	0.11
12.50	8.34	8.10	0.75	15.10	10.14	9.90	0.10
12.55	8.42	8.18	0.60	15.15	10.16	9.92	0.10
12.60	8.50	8.26	0.52	15.20	10.18	9.94	0.10
12.65	8.57	8.33	0.47	15.25	10.19	9.95	0.10
12.70	8.64	8.40	0.46	15.30	10.21	9.97	0.10
12.75	8.71	8.47	0.43	15.35	10.22	9.98	0.10
12.80	8.77	8.53	0.42	15.40	10.24	10.00	0.10
12.85	8.83	8.59	0.39	15.45	10.26	10.02	0.10
12.90	8.89	8.65	0.38	15.50	10.27	10.03	0.10
12.95	8.95	8.70	0.35	15.55	10.29	10.05	0.10

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	10.30	10.06	0.10	18.20	10.94	10.70	0.06
15.65	10.32	10.08	0.10	18.25	10.95	10.71	0.06
15.70	10.33	10.09	0.09	18.30	10.96	10.72	0.06
15.75	10.35	10.11	0.09	18.35	10.97	10.73	0.06
15.80	10.36	10.12	0.09	18.40	10.98	10.74	0.06
15.85	10.38	10.14	0.09	18.45	10.99	10.75	0.06
15.90	10.39	10.15	0.09	18.50	11.00	10.75	0.06
15.95	10.41	10.17	0.09	18.55	11.01	10.76	0.06
16.00	10.42	10.18	0.09	18.60	11.01	10.77	0.06
16.05	10.44	10.19	0.09	18.65	11.02	10.78	0.06
16.10	10.45	10.21	0.09	18.70	11.03	10.79	0.06
16.15	10.46	10.22	0.09	18.75	11.04	10.80	0.06
16.20	10.48	10.24	0.09	18.80	11.05	10.81	0.06
16.25	10.49	10.25	0.09	18.85	11.06	10.82	0.06
16.30	10.51	10.26	0.09	18.90	11.07	10.83	0.06
16.35	10.52	10.28	0.09	18.95	11.08	10.84	0.06
16.40	10.53	10.29	0.08	19.00	11.09	10.85	0.06
16.45	10.55	10.30	0.08	19.05	11.10	10.85	0.06
16.50	10.56	10.32	0.08	19.10	11.10	10.86	0.06
16.55	10.57	10.33	0.08	19.15	11.11	10.87	0.06
16.60	10.59	10.34	0.08	19.20	11.12	10.88	0.06
16.65	10.60	10.36	0.08	19.25	11.13	10.89	0.06
16.70	10.61	10.37	0.08	19.30	11.14	10.90	0.06
16.75	10.62	10.38	0.08	19.35	11.15	10.91	0.05
16.80	10.64	10.40	0.08	19.40	11.16	10.92	0.05
16.85	10.65	10.41	0.08	19.45	11.17	10.93	0.05
16.90	10.66	10.42	0.08	19.50	11.18	10.93	0.05
16.95	10.67	10.43	0.08	19.55	11.18	10.94	0.05
17.00	10.69	10.44	0.08	19.60	11.19	10.95	0.05
17.05	10.70	10.46	0.08	19.65	11.20	10.96	0.05
17.10	10.71	10.47	0.07	19.70	11.21	10.97	0.05
17.15	10.72	10.48	0.07	19.75	11.22	10.98	0.05
17.20	10.73	10.49	0.07	19.80	11.23	10.99	0.05
17.25	10.74	10.50	0.07	19.85	11.24	10.99	0.05
17.30	10.75	10.51	0.07	19.90	11.24	11.00	0.05
17.35	10.77	10.53	0.07	19.95	11.25	11.01	0.05
17.40	10.78	10.54	0.07	20.00	11.26	11.02	0.05
17.45	10.79	10.55	0.07	20.05	11.27	11.03	0.05
17.50	10.80	10.56	0.07	20.10	11.28	11.04	0.05
17.55	10.81	10.57	0.07	20.15	11.29	11.04	0.05
17.60	10.82	10.58	0.07	20.20	11.29	11.05	0.05
17.65	10.83	10.59	0.07	20.25	11.30	11.06	0.05
17.70	10.84	10.60	0.07	20.30	11.31	11.07	0.05
17.75	10.85	10.61	0.06	20.35	11.32	11.08	0.05
17.80	10.86	10.62	0.06	20.40	11.33	11.09	0.05
17.85	10.87	10.63	0.06	20.45	11.33	11.09	0.05
17.90	10.88	10.64	0.06	20.50	11.34	11.10	0.05
17.95	10.89	10.65	0.06	20.55	11.35	11.11	0.05
18.00	10.90	10.66	0.06	20.60	11.36	11.12	0.05
18.05	10.91	10.67	0.06	20.65	11.37	11.13	0.05
18.10	10.92	10.68	0.06	20.70	11.38	11.13	0.05
18.15	10.93	10.69	0.06	20.75	11.38	11.14	0.05

Hydrograph for Subcatchment EDA2 IMP: EDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	11.39	11.15	0.05	23.40	11.76	11.52	0.04
20.85	11.40	11.16	0.05	23.45	11.77	11.53	0.04
20.90	11.41	11.17	0.05	23.50	11.78	11.53	0.04
20.95	11.41	11.17	0.05	23.55	11.78	11.54	0.04
21.00	11.42	11.18	0.05	23.60	11.79	11.55	0.04
21.05	11.43	11.19	0.05	23.65	11.79	11.55	0.04
21.10	11.44	11.20	0.05	23.70	11.80	11.56	0.04
21.15	11.45	11.20	0.05	23.75	11.81	11.57	0.04
21.20	11.45	11.21	0.05	23.80	11.81	11.57	0.04
21.25	11.46	11.22	0.05	23.85	11.82	11.58	0.04
21.30	11.47	11.23	0.05	23.90	11.82	11.58	0.04
21.35	11.48	11.23	0.05	23.95	11.83	11.59	0.04
21.40	11.48	11.24	0.05	24.00	**11.84**	**11.60**	0.05
21.45	11.49	11.25	0.05				
21.50	11.50	11.26	0.05				
21.55	11.51	11.26	0.05				
21.60	11.51	11.27	0.05				
21.65	11.52	11.28	0.05				
21.70	11.53	11.29	0.05				
21.75	11.54	11.29	0.05				
21.80	11.54	11.30	0.05				
21.85	11.55	11.31	0.05				
21.90	11.56	11.32	0.05				
21.95	11.57	11.32	0.05				
22.00	11.57	11.33	0.05				
22.05	11.58	11.34	0.04				
22.10	11.59	11.35	0.04				
22.15	11.59	11.35	0.04				
22.20	11.60	11.36	0.04				
22.25	11.61	11.37	0.04				
22.30	11.62	11.37	0.04				
22.35	11.62	11.38	0.04				
22.40	11.63	11.39	0.04				
22.45	11.64	11.39	0.04				
22.50	11.64	11.40	0.04				
22.55	11.65	11.41	0.04				
22.60	11.66	11.42	0.04				
22.65	11.66	11.42	0.04				
22.70	11.67	11.43	0.04				
22.75	11.68	11.44	0.04				
22.80	11.68	11.44	0.04				
22.85	11.69	11.45	0.04				
22.90	11.70	11.46	0.04				
22.95	11.70	11.46	0.04				
23.00	11.71	11.47	0.04				
23.05	11.72	11.48	0.04				
23.10	11.72	11.48	0.04				
23.15	11.73	11.49	0.04				
23.20	11.74	11.50	0.04				
23.25	11.74	11.50	0.04				
23.30	11.75	11.51	0.04				
23.35	11.76	11.51	0.04				

Summary for Subcatchment EDA3 IMP: EDA3 IMP

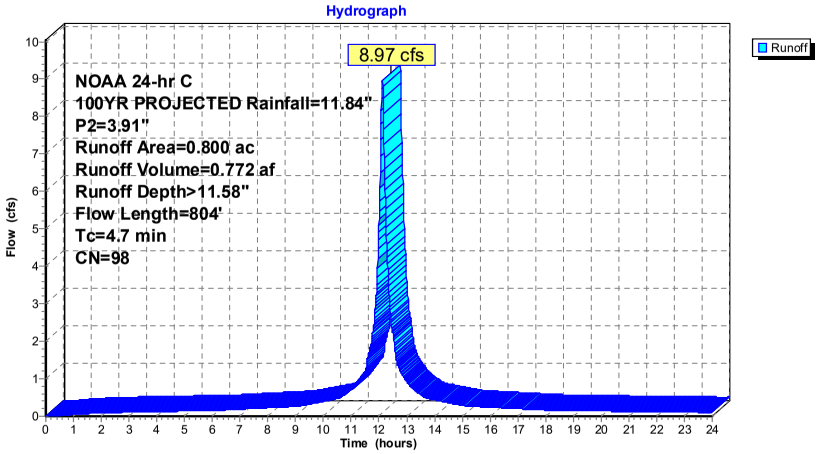
Runoff = 8.97 cfs @ 12.13 hrs, Volume= 0.772 af, Depth>11.58"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"

	Area (ac)	CN	Description
*	0.750	98	Impervious vehicular
*	0.050	98	Impervious non vehicular
	0.800	98	Weighted Average
	0.800		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	100	0.0071	1.00		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.7	172	0.0039	3.90	12.24	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
0.1	27	0.0120	6.84	21.48	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
1.6	439	0.0015	4.45	87.42	**Pipe Channel, RCP_Round 60"** 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.015
4.7	804	Total			

Subcatchment EDA3 IMP: EDA3 IMP



Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.36	0.19	0.10
0.05	0.01	0.00	0.00	2.65	0.36	0.20	0.10
0.10	0.02	0.00	0.00	2.70	0.37	0.20	0.10
0.15	0.02	0.00	0.00	2.75	0.38	0.21	0.10
0.20	0.03	0.00	0.00	2.80	0.39	0.22	0.10
0.25	0.03	0.00	0.00	2.85	0.39	0.22	0.11
0.30	0.04	0.00	0.00	2.90	0.40	0.23	0.11
0.35	0.05	0.00	0.00	2.95	0.41	0.24	0.11
0.40	0.05	0.00	0.00	3.00	0.42	0.24	0.11
0.45	0.06	0.00	0.01	3.05	0.43	0.25	0.11
0.50	0.06	0.00	0.01	3.10	0.43	0.26	0.11
0.55	0.07	0.00	0.01	3.15	0.44	0.27	0.11
0.60	0.08	0.01	0.02	3.20	0.45	0.27	0.11
0.65	0.08	0.01	0.02	3.25	0.46	0.28	0.11
0.70	0.09	0.01	0.03	3.30	0.46	0.29	0.11
0.75	0.10	0.01	0.03	3.35	0.47	0.29	0.11
0.80	0.10	0.01	0.03	3.40	0.48	0.30	0.11
0.85	0.11	0.02	0.04	3.45	0.49	0.31	0.12
0.90	0.12	0.02	0.04	3.50	0.50	0.32	0.12
0.95	0.12	0.02	0.04	3.55	0.51	0.32	0.12
1.00	0.13	0.03	0.05	3.60	0.51	0.33	0.12
1.05	0.14	0.03	0.05	3.65	0.52	0.34	0.12
1.10	0.14	0.03	0.05	3.70	0.53	0.34	0.12
1.15	0.15	0.04	0.06	3.75	0.54	0.35	0.12
1.20	0.16	0.04	0.06	3.80	0.55	0.36	0.12
1.25	0.16	0.05	0.06	3.85	0.55	0.37	0.12
1.30	0.17	0.05	0.06	3.90	0.56	0.38	0.12
1.35	0.18	0.05	0.07	3.95	0.57	0.38	0.12
1.40	0.18	0.06	0.07	4.00	0.58	0.39	0.12
1.45	0.19	0.06	0.07	4.05	0.59	0.40	0.12
1.50	0.20	0.07	0.07	4.10	0.60	0.41	0.12
1.55	0.20	0.07	0.07	4.15	0.60	0.41	0.13
1.60	0.21	0.08	0.08	4.20	0.61	0.42	0.13
1.65	0.22	0.08	0.08	4.25	0.62	0.43	0.13
1.70	0.22	0.09	0.08	4.30	0.63	0.44	0.13
1.75	0.23	0.09	0.08	4.35	0.64	0.45	0.13
1.80	0.24	0.10	0.08	4.40	0.65	0.45	0.13
1.85	0.25	0.10	0.08	4.45	0.66	0.46	0.13
1.90	0.25	0.11	0.08	4.50	0.66	0.47	0.13
1.95	0.26	0.11	0.09	4.55	0.67	0.48	0.13
2.00	0.27	0.12	0.09	4.60	0.68	0.49	0.13
2.05	0.27	0.13	0.09	4.65	0.69	0.49	0.13
2.10	0.28	0.13	0.09	4.70	0.70	0.50	0.13
2.15	0.29	0.14	0.09	4.75	0.71	0.51	0.13
2.20	0.30	0.14	0.09	4.80	0.72	0.52	0.13
2.25	0.30	0.15	0.09	4.85	0.73	0.53	0.13
2.30	0.31	0.15	0.09	4.90	0.74	0.54	0.13
2.35	0.32	0.16	0.10	4.95	0.74	0.55	0.14
2.40	0.33	0.17	0.10	5.00	0.75	0.55	0.14
2.45	0.33	0.17	0.10	5.05	0.76	0.56	0.14
2.50	0.34	0.18	0.10	5.10	0.77	0.57	0.14
2.55	0.35	0.19	0.10	5.15	0.78	0.58	0.14

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.79	0.59	0.14	7.80	1.36	1.14	0.22
5.25	0.80	0.60	0.14	7.85	1.38	1.16	0.22
5.30	0.81	0.61	0.14	7.90	1.39	1.17	0.22
5.35	0.82	0.61	0.14	7.95	1.40	1.19	0.22
5.40	0.83	0.62	0.14	8.00	1.42	1.20	0.22
5.45	0.83	0.63	0.14	8.05	1.43	1.21	0.23
5.50	0.84	0.64	0.14	8.10	1.45	1.23	0.23
5.55	0.85	0.65	0.14	8.15	1.46	1.24	0.23
5.60	0.86	0.66	0.14	8.20	1.48	1.26	0.23
5.65	0.87	0.67	0.14	8.25	1.49	1.27	0.23
5.70	0.88	0.68	0.14	8.30	1.51	1.29	0.23
5.75	0.89	0.69	0.14	8.35	1.52	1.30	0.24
5.80	0.90	0.69	0.15	8.40	1.54	1.32	0.24
5.85	0.91	0.70	0.15	8.45	1.55	1.33	0.24
5.90	0.92	0.71	0.15	8.50	1.57	1.35	0.24
5.95	0.93	0.72	0.15	8.55	1.58	1.36	0.24
6.00	0.94	0.73	0.15	8.60	1.60	1.38	0.25
6.05	0.95	0.74	0.15	8.65	1.62	1.39	0.25
6.10	0.96	0.75	0.15	8.70	1.63	1.41	0.25
6.15	0.97	0.76	0.15	8.75	1.65	1.43	0.25
6.20	0.98	0.77	0.15	8.80	1.66	1.44	0.25
6.25	0.99	0.78	0.16	8.85	1.68	1.46	0.26
6.30	1.00	0.79	0.16	8.90	1.70	1.47	0.26
6.35	1.01	0.80	0.16	8.95	1.71	1.49	0.26
6.40	1.02	0.81	0.16	9.00	1.73	1.51	0.26
6.45	1.03	0.82	0.16	9.05	1.75	1.52	0.27
6.50	1.04	0.83	0.17	9.10	1.76	1.54	0.27
6.55	1.05	0.84	0.17	9.15	1.78	1.56	0.28
6.60	1.06	0.85	0.17	9.20	1.80	1.58	0.28
6.65	1.07	0.86	0.17	9.25	1.82	1.60	0.29
6.70	1.09	0.87	0.17	9.30	1.84	1.62	0.30
6.75	1.10	0.88	0.17	9.35	1.86	1.64	0.30
6.80	1.11	0.90	0.18	9.40	1.88	1.66	0.31
6.85	1.12	0.91	0.18	9.45	1.90	1.68	0.32
6.90	1.13	0.92	0.18	9.50	1.92	1.70	0.33
6.95	1.14	0.93	0.18	9.55	1.94	1.72	0.33
7.00	1.15	0.94	0.18	9.60	1.97	1.74	0.34
7.05	1.17	0.95	0.19	9.65	1.99	1.76	0.35
7.10	1.18	0.97	0.19	9.70	2.01	1.79	0.35
7.15	1.19	0.98	0.19	9.75	2.03	1.81	0.36
7.20	1.20	0.99	0.19	9.80	2.06	1.83	0.37
7.25	1.22	1.00	0.19	9.85	2.08	1.86	0.38
7.30	1.23	1.01	0.20	9.90	2.11	1.88	0.38
7.35	1.24	1.03	0.20	9.95	2.13	1.91	0.39
7.40	1.25	1.04	0.20	10.00	2.16	1.93	0.40
7.45	1.27	1.05	0.20	10.05	2.19	1.96	0.40
7.50	1.28	1.06	0.20	10.10	2.21	1.98	0.41
7.55	1.29	1.08	0.21	10.15	2.24	2.01	0.42
7.60	1.31	1.09	0.21	10.20	2.27	2.04	0.43
7.65	1.32	1.10	0.21	10.25	2.29	2.07	0.43
7.70	1.33	1.12	0.21	10.30	2.32	2.09	0.44
7.75	1.35	1.13	0.21	10.35	2.35	2.12	0.45

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	2.38	2.15	0.46	13.00	9.00	8.76	0.93
10.45	2.41	2.18	0.46	13.05	9.05	8.81	0.88
10.50	2.44	2.21	0.47	13.10	9.09	8.85	0.83
10.55	2.47	2.24	0.48	13.15	9.14	8.90	0.79
10.60	2.51	2.28	0.51	13.20	9.18	8.94	0.75
10.65	2.54	2.31	0.53	13.25	9.22	8.98	0.72
10.70	2.58	2.35	0.55	13.30	9.26	9.02	0.69
10.75	2.62	2.39	0.58	13.35	9.30	9.06	0.66
10.80	2.66	2.43	0.61	13.40	9.33	9.09	0.63
10.85	2.70	2.47	0.63	13.45	9.37	9.13	0.60
10.90	2.75	2.52	0.66	13.50	9.40	9.16	0.58
10.95	2.79	2.56	0.69	13.55	9.43	9.19	0.55
11.00	2.84	2.61	0.72	13.60	9.46	9.22	0.52
11.05	2.89	2.66	0.75	13.65	9.49	9.25	0.50
11.10	2.95	2.72	0.80	13.70	9.52	9.28	0.49
11.15	3.01	2.78	0.84	13.75	9.55	9.31	0.48
11.20	3.07	2.84	0.89	13.80	9.57	9.33	0.47
11.25	3.13	2.90	0.94	13.85	9.60	9.36	0.46
11.30	3.20	2.97	0.99	13.90	9.63	9.39	0.45
11.35	3.27	3.04	1.04	13.95	9.65	9.41	0.44
11.40	3.34	3.11	1.09	14.00	9.68	9.44	0.44
11.45	3.42	3.19	1.14	14.05	9.71	9.47	0.43
11.50	3.50	3.27	1.18	14.10	9.73	9.49	0.42
11.55	3.62	3.38	1.32	14.15	9.76	9.52	0.41
11.60	3.74	3.50	1.58	14.20	9.78	9.54	0.41
11.65	3.86	3.63	1.74	14.25	9.81	9.56	0.40
11.70	3.99	3.76	1.87	14.30	9.83	9.59	0.39
11.75	4.16	3.93	2.06	14.35	9.85	9.61	0.39
11.80	4.34	4.10	2.37	14.40	9.87	9.63	0.38
11.85	4.58	4.34	2.73	14.45	9.90	9.66	0.37
11.90	4.82	4.58	3.21	14.50	9.92	9.68	0.36
11.95	5.23	4.99	3.95	14.55	9.94	9.70	0.36
12.00	5.64	5.41	5.11	14.60	9.96	9.72	0.35
12.05	6.33	6.10	6.51	14.65	9.98	9.74	0.34
12.10	7.02	6.79	**8.49**	14.70	10.00	9.76	0.33
12.15	7.26	7.03	**8.48**	14.75	10.02	9.78	0.33
12.20	7.50	7.26	6.59	14.80	10.04	9.80	0.32
12.25	7.68	7.44	5.28	14.85	10.06	9.82	0.31
12.30	7.85	7.61	4.23	14.90	10.08	9.84	0.31
12.35	7.98	7.74	3.47	14.95	10.09	9.85	0.30
12.40	8.10	7.86	2.82	15.00	10.11	9.87	0.29
12.45	8.22	7.98	2.43	15.05	10.13	9.89	0.28
12.50	8.34	8.10	2.20	15.10	10.14	9.90	0.28
12.55	8.42	8.18	1.95	15.15	10.16	9.92	0.27
12.60	8.50	8.26	1.64	15.20	10.18	9.94	0.27
12.65	8.57	8.33	1.45	15.25	10.19	9.95	0.27
12.70	8.64	8.40	1.32	15.30	10.21	9.97	0.26
12.75	8.71	8.47	1.23	15.35	10.22	9.98	0.26
12.80	8.77	8.53	1.15	15.40	10.24	10.00	0.26
12.85	8.83	8.59	1.10	15.45	10.26	10.02	0.26
12.90	8.89	8.65	1.04	15.50	10.27	10.03	0.26
12.95	8.95	8.70	0.99	15.55	10.29	10.05	0.25

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	10.30	10.06	0.25	18.20	10.94	10.70	0.15
15.65	10.32	10.08	0.25	18.25	10.95	10.71	0.15
15.70	10.33	10.09	0.25	18.30	10.96	10.72	0.15
15.75	10.35	10.11	0.25	18.35	10.97	10.73	0.15
15.80	10.36	10.12	0.24	18.40	10.98	10.74	0.15
15.85	10.38	10.14	0.24	18.45	10.99	10.75	0.15
15.90	10.39	10.15	0.24	18.50	11.00	10.75	0.15
15.95	10.41	10.17	0.24	18.55	11.01	10.76	0.15
16.00	10.42	10.18	0.24	18.60	11.01	10.77	0.15
16.05	10.44	10.19	0.23	18.65	11.02	10.78	0.15
16.10	10.45	10.21	0.23	18.70	11.03	10.79	0.15
16.15	10.46	10.22	0.23	18.75	11.04	10.80	0.15
16.20	10.48	10.24	0.23	18.80	11.05	10.81	0.15
16.25	10.49	10.25	0.23	18.85	11.06	10.82	0.15
16.30	10.51	10.26	0.22	18.90	11.07	10.83	0.15
16.35	10.52	10.28	0.22	18.95	11.08	10.84	0.15
16.40	10.53	10.29	0.22	19.00	11.09	10.85	0.15
16.45	10.55	10.30	0.22	19.05	11.10	10.85	0.15
16.50	10.56	10.32	0.22	19.10	11.10	10.86	0.14
16.55	10.57	10.33	0.22	19.15	11.11	10.87	0.14
16.60	10.59	10.34	0.21	19.20	11.12	10.88	0.14
16.65	10.60	10.36	0.21	19.25	11.13	10.89	0.14
16.70	10.61	10.37	0.21	19.30	11.14	10.90	0.14
16.75	10.62	10.38	0.21	19.35	11.15	10.91	0.14
16.80	10.64	10.40	0.21	19.40	11.16	10.92	0.14
16.85	10.65	10.41	0.20	19.45	11.17	10.93	0.14
16.90	10.66	10.42	0.20	19.50	11.18	10.93	0.14
16.95	10.67	10.43	0.20	19.55	11.18	10.94	0.14
17.00	10.69	10.44	0.20	19.60	11.19	10.95	0.14
17.05	10.70	10.46	0.20	19.65	11.20	10.96	0.14
17.10	10.71	10.47	0.19	19.70	11.21	10.97	0.14
17.15	10.72	10.48	0.19	19.75	11.22	10.98	0.14
17.20	10.73	10.49	0.19	19.80	11.23	10.99	0.14
17.25	10.74	10.50	0.19	19.85	11.24	10.99	0.14
17.30	10.75	10.51	0.19	19.90	11.24	11.00	0.14
17.35	10.77	10.53	0.18	19.95	11.25	11.01	0.14
17.40	10.78	10.54	0.18	20.00	11.26	11.02	0.14
17.45	10.79	10.55	0.18	20.05	11.27	11.03	0.14
17.50	10.80	10.56	0.18	20.10	11.28	11.04	0.14
17.55	10.81	10.57	0.18	20.15	11.29	11.04	0.13
17.60	10.82	10.58	0.18	20.20	11.29	11.05	0.13
17.65	10.83	10.59	0.17	20.25	11.30	11.06	0.13
17.70	10.84	10.60	0.17	20.30	11.31	11.07	0.13
17.75	10.85	10.61	0.17	20.35	11.32	11.08	0.13
17.80	10.86	10.62	0.17	20.40	11.33	11.09	0.13
17.85	10.87	10.63	0.17	20.45	11.33	11.09	0.13
17.90	10.88	10.64	0.16	20.50	11.34	11.10	0.13
17.95	10.89	10.65	0.16	20.55	11.35	11.11	0.13
18.00	10.90	10.66	0.16	20.60	11.36	11.12	0.13
18.05	10.91	10.67	0.16	20.65	11.37	11.13	0.13
18.10	10.92	10.68	0.16	20.70	11.38	11.13	0.13
18.15	10.93	10.69	0.16	20.75	11.38	11.14	0.13

Hydrograph for Subcatchment EDA3 IMP: EDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	11.39	11.15	0.13	23.40	11.76	11.52	0.10
20.85	11.40	11.16	0.13	23.45	11.77	11.53	0.10
20.90	11.41	11.17	0.13	23.50	11.78	11.53	0.10
20.95	11.41	11.17	0.13	23.55	11.78	11.54	0.10
21.00	11.42	11.18	0.13	23.60	11.79	11.55	0.10
21.05	11.43	11.19	0.13	23.65	11.79	11.55	0.10
21.10	11.44	11.20	0.13	23.70	11.80	11.56	0.10
21.15	11.45	11.20	0.13	23.75	11.81	11.57	0.10
21.20	11.45	11.21	0.12	23.80	11.81	11.57	0.10
21.25	11.46	11.22	0.12	23.85	11.82	11.58	0.10
21.30	11.47	11.23	0.12	23.90	11.82	11.58	0.10
21.35	11.48	11.23	0.12	23.95	11.83	11.59	0.10
21.40	11.48	11.24	0.12	24.00	**11.84**	**11.60**	0.11
21.45	11.49	11.25	0.12				
21.50	11.50	11.26	0.12				
21.55	11.51	11.26	0.12				
21.60	11.51	11.27	0.12				
21.65	11.52	11.28	0.12				
21.70	11.53	11.29	0.12				
21.75	11.54	11.29	0.12				
21.80	11.54	11.30	0.12				
21.85	11.55	11.31	0.12				
21.90	11.56	11.32	0.12				
21.95	11.57	11.32	0.12				
22.00	11.57	11.33	0.12				
22.05	11.58	11.34	0.12				
22.10	11.59	11.35	0.12				
22.15	11.59	11.35	0.12				
22.20	11.60	11.36	0.12				
22.25	11.61	11.37	0.12				
22.30	11.62	11.37	0.11				
22.35	11.62	11.38	0.11				
22.40	11.63	11.39	0.11				
22.45	11.64	11.39	0.11				
22.50	11.64	11.40	0.11				
22.55	11.65	11.41	0.11				
22.60	11.66	11.42	0.11				
22.65	11.66	11.42	0.11				
22.70	11.67	11.43	0.11				
22.75	11.68	11.44	0.11				
22.80	11.68	11.44	0.11				
22.85	11.69	11.45	0.11				
22.90	11.70	11.46	0.11				
22.95	11.70	11.46	0.11				
23.00	11.71	11.47	0.11				
23.05	11.72	11.48	0.11				
23.10	11.72	11.48	0.11				
23.15	11.73	11.49	0.11				
23.20	11.74	11.50	0.11				
23.25	11.74	11.50	0.11				
23.30	11.75	11.51	0.10				
23.35	11.76	11.51	0.10				

Summary for Subcatchment EDA3 PERV: EDA3 PERV

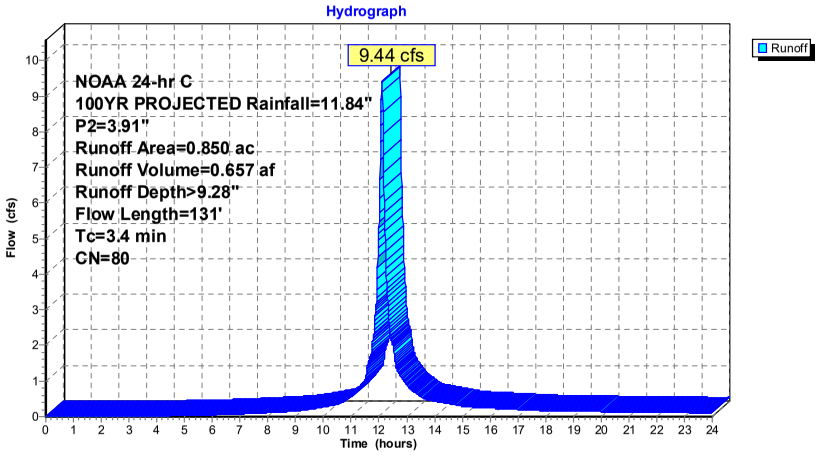
Runoff = 9.44 cfs @ 12.12 hrs, Volume= 0.657 af, Depth> 9.28"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"

Area (ac)	CN	Description
0.850	80	>75% Grass cover, Good, HSG D
0.850		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.7	23	0.0200	0.14		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.1	42	0.0150	5.59	6.86	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
3.4	131	Total			

Subcatchment EDA3 PERV: EDA3 PERV



Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.36	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.36	0.00	0.00
0.10	0.02	0.00	0.00	2.70	0.37	0.00	0.00
0.15	0.02	0.00	0.00	2.75	0.38	0.00	0.00
0.20	0.03	0.00	0.00	2.80	0.39	0.00	0.00
0.25	0.03	0.00	0.00	2.85	0.39	0.00	0.00
0.30	0.04	0.00	0.00	2.90	0.40	0.00	0.00
0.35	0.05	0.00	0.00	2.95	0.41	0.00	0.00
0.40	0.05	0.00	0.00	3.00	0.42	0.00	0.00
0.45	0.06	0.00	0.00	3.05	0.43	0.00	0.00
0.50	0.06	0.00	0.00	3.10	0.43	0.00	0.00
0.55	0.07	0.00	0.00	3.15	0.44	0.00	0.00
0.60	0.08	0.00	0.00	3.20	0.45	0.00	0.00
0.65	0.08	0.00	0.00	3.25	0.46	0.00	0.00
0.70	0.09	0.00	0.00	3.30	0.46	0.00	0.00
0.75	0.10	0.00	0.00	3.35	0.47	0.00	0.00
0.80	0.10	0.00	0.00	3.40	0.48	0.00	0.00
0.85	0.11	0.00	0.00	3.45	0.49	0.00	0.00
0.90	0.12	0.00	0.00	3.50	0.50	0.00	0.00
0.95	0.12	0.00	0.00	3.55	0.51	0.00	0.00
1.00	0.13	0.00	0.00	3.60	0.51	0.00	0.00
1.05	0.14	0.00	0.00	3.65	0.52	0.00	0.00
1.10	0.14	0.00	0.00	3.70	0.53	0.00	0.00
1.15	0.15	0.00	0.00	3.75	0.54	0.00	0.00
1.20	0.16	0.00	0.00	3.80	0.55	0.00	0.00
1.25	0.16	0.00	0.00	3.85	0.55	0.00	0.00
1.30	0.17	0.00	0.00	3.90	0.56	0.00	0.01
1.35	0.18	0.00	0.00	3.95	0.57	0.00	0.01
1.40	0.18	0.00	0.00	4.00	0.58	0.00	0.01
1.45	0.19	0.00	0.00	4.05	0.59	0.00	0.01
1.50	0.20	0.00	0.00	4.10	0.60	0.00	0.01
1.55	0.20	0.00	0.00	4.15	0.60	0.00	0.01
1.60	0.21	0.00	0.00	4.20	0.61	0.00	0.01
1.65	0.22	0.00	0.00	4.25	0.62	0.01	0.01
1.70	0.22	0.00	0.00	4.30	0.63	0.01	0.01
1.75	0.23	0.00	0.00	4.35	0.64	0.01	0.01
1.80	0.24	0.00	0.00	4.40	0.65	0.01	0.01
1.85	0.25	0.00	0.00	4.45	0.66	0.01	0.02
1.90	0.25	0.00	0.00	4.50	0.66	0.01	0.02
1.95	0.26	0.00	0.00	4.55	0.67	0.01	0.02
2.00	0.27	0.00	0.00	4.60	0.68	0.01	0.02
2.05	0.27	0.00	0.00	4.65	0.69	0.01	0.02
2.10	0.28	0.00	0.00	4.70	0.70	0.01	0.02
2.15	0.29	0.00	0.00	4.75	0.71	0.02	0.02
2.20	0.30	0.00	0.00	4.80	0.72	0.02	0.02
2.25	0.30	0.00	0.00	4.85	0.73	0.02	0.02
2.30	0.31	0.00	0.00	4.90	0.74	0.02	0.02
2.35	0.32	0.00	0.00	4.95	0.74	0.02	0.02
2.40	0.33	0.00	0.00	5.00	0.75	0.02	0.03
2.45	0.33	0.00	0.00	5.05	0.76	0.02	0.03
2.50	0.34	0.00	0.00	5.10	0.77	0.03	0.03
2.55	0.35	0.00	0.00	5.15	0.78	0.03	0.03

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.79	0.03	0.03	7.80	1.36	0.22	0.10
5.25	0.80	0.03	0.03	7.85	1.38	0.23	0.10
5.30	0.81	0.03	0.03	7.90	1.39	0.23	0.11
5.35	0.82	0.04	0.03	7.95	1.40	0.24	0.11
5.40	0.83	0.04	0.03	8.00	1.42	0.25	0.11
5.45	0.83	0.04	0.03	8.05	1.43	0.25	0.11
5.50	0.84	0.04	0.03	8.10	1.45	0.26	0.11
5.55	0.85	0.04	0.04	8.15	1.46	0.27	0.12
5.60	0.86	0.05	0.04	8.20	1.48	0.27	0.12
5.65	0.87	0.05	0.04	8.25	1.49	0.28	0.12
5.70	0.88	0.05	0.04	8.30	1.51	0.29	0.12
5.75	0.89	0.05	0.04	8.35	1.52	0.30	0.13
5.80	0.90	0.06	0.04	8.40	1.54	0.30	0.13
5.85	0.91	0.06	0.04	8.45	1.55	0.31	0.13
5.90	0.92	0.06	0.04	8.50	1.57	0.32	0.13
5.95	0.93	0.06	0.04	8.55	1.58	0.33	0.13
6.00	0.94	0.07	0.04	8.60	1.60	0.34	0.14
6.05	0.95	0.07	0.04	8.65	1.62	0.34	0.14
6.10	0.96	0.07	0.05	8.70	1.63	0.35	0.14
6.15	0.97	0.07	0.05	8.75	1.65	0.36	0.14
6.20	0.98	0.08	0.05	8.80	1.66	0.37	0.14
6.25	0.99	0.08	0.05	8.85	1.68	0.38	0.15
6.30	1.00	0.08	0.05	8.90	1.70	0.39	0.15
6.35	1.01	0.09	0.05	8.95	1.71	0.40	0.15
6.40	1.02	0.09	0.05	9.00	1.73	0.41	0.15
6.45	1.03	0.09	0.06	9.05	1.75	0.41	0.16
6.50	1.04	0.10	0.06	9.10	1.76	0.42	0.16
6.55	1.05	0.10	0.06	9.15	1.78	0.43	0.17
6.60	1.06	0.10	0.06	9.20	1.80	0.45	0.17
6.65	1.07	0.11	0.06	9.25	1.82	0.46	0.18
6.70	1.09	0.11	0.06	9.30	1.84	0.47	0.18
6.75	1.10	0.11	0.07	9.35	1.86	0.48	0.19
6.80	1.11	0.12	0.07	9.40	1.88	0.49	0.20
6.85	1.12	0.12	0.07	9.45	1.90	0.50	0.20
6.90	1.13	0.13	0.07	9.50	1.92	0.52	0.21
6.95	1.14	0.13	0.07	9.55	1.94	0.53	0.21
7.00	1.15	0.14	0.07	9.60	1.97	0.54	0.22
7.05	1.17	0.14	0.08	9.65	1.99	0.56	0.23
7.10	1.18	0.15	0.08	9.70	2.01	0.57	0.23
7.15	1.19	0.15	0.08	9.75	2.03	0.58	0.24
7.20	1.20	0.15	0.08	9.80	2.06	0.60	0.25
7.25	1.22	0.16	0.08	9.85	2.08	0.61	0.25
7.30	1.23	0.16	0.08	9.90	2.11	0.63	0.26
7.35	1.24	0.17	0.09	9.95	2.13	0.65	0.27
7.40	1.25	0.17	0.09	10.00	2.16	0.66	0.27
7.45	1.27	0.18	0.09	10.05	2.19	0.68	0.28
7.50	1.28	0.19	0.09	10.10	2.21	0.70	0.29
7.55	1.29	0.19	0.09	10.15	2.24	0.71	0.29
7.60	1.31	0.20	0.10	10.20	2.27	0.73	0.30
7.65	1.32	0.20	0.10	10.25	2.29	0.75	0.31
7.70	1.33	0.21	0.10	10.30	2.32	0.77	0.31
7.75	1.35	0.21	0.10	10.35	2.35	0.79	0.32

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	2.38	0.81	0.33	13.00	9.00	6.57	0.90
10.45	2.41	0.83	0.34	13.05	9.05	6.61	0.85
10.50	2.44	0.85	0.34	13.10	9.09	6.66	0.80
10.55	2.47	0.87	0.36	13.15	9.14	6.70	0.76
10.60	2.51	0.89	0.38	13.20	9.18	6.74	0.73
10.65	2.54	0.92	0.40	13.25	9.22	6.78	0.70
10.70	2.58	0.94	0.42	13.30	9.26	6.81	0.67
10.75	2.62	0.97	0.45	13.35	9.30	6.85	0.65
10.80	2.66	1.00	0.47	13.40	9.33	6.88	0.62
10.85	2.70	1.03	0.49	13.45	9.37	6.92	0.59
10.90	2.75	1.06	0.52	13.50	9.40	6.95	0.56
10.95	2.79	1.10	0.54	13.55	9.43	6.98	0.54
11.00	2.84	1.13	0.57	13.60	9.46	7.01	0.51
11.05	2.89	1.17	0.61	13.65	9.49	7.03	0.49
11.10	2.95	1.21	0.64	13.70	9.52	7.06	0.48
11.15	3.01	1.26	0.69	13.75	9.55	7.09	0.47
11.20	3.07	1.30	0.73	13.80	9.57	7.11	0.47
11.25	3.13	1.35	0.78	13.85	9.60	7.14	0.46
11.30	3.20	1.40	0.83	13.90	9.63	7.17	0.45
11.35	3.27	1.46	0.88	13.95	9.65	7.19	0.44
11.40	3.34	1.51	0.92	14.00	9.68	7.22	0.44
11.45	3.42	1.57	0.97	14.05	9.71	7.24	0.43
11.50	3.50	1.64	1.01	14.10	9.73	7.26	0.42
11.55	3.62	1.73	1.22	14.15	9.76	7.29	0.41
11.60	3.74	1.83	1.45	14.20	9.78	7.31	0.41
11.65	3.86	1.93	1.60	14.25	9.81	7.33	0.40
11.70	3.99	2.03	1.69	14.30	9.83	7.36	0.39
11.75	4.16	2.18	1.96	14.35	9.85	7.38	0.39
11.80	4.34	2.32	2.24	14.40	9.87	7.40	0.38
11.85	4.58	2.53	2.69	14.45	9.90	7.42	0.37
11.90	4.82	2.73	3.15	14.50	9.92	7.44	0.37
11.95	5.23	3.09	4.20	14.55	9.94	7.46	0.36
12.00	5.64	3.46	5.32	14.60	9.96	7.48	0.35
12.05	6.33	4.08	7.23	14.65	9.98	7.50	0.34
12.10	7.02	4.72	**9.18**	14.70	10.00	7.52	0.34
12.15	7.26	4.94	**7.93**	14.75	10.02	7.54	0.33
12.20	7.50	5.16	5.75	14.80	10.04	7.56	0.32
12.25	7.68	5.32	4.38	14.85	10.06	7.58	0.31
12.30	7.85	5.48	3.46	14.90	10.08	7.59	0.31
12.35	7.98	5.60	2.81	14.95	10.09	7.61	0.30
12.40	8.10	5.72	2.36	15.00	10.11	7.63	0.29
12.45	8.22	5.83	2.13	15.05	10.13	7.64	0.28
12.50	8.34	5.95	2.01	15.10	10.14	7.66	0.28
12.55	8.42	6.02	1.75	15.15	10.16	7.67	0.27
12.60	8.50	6.09	1.47	15.20	10.18	7.69	0.27
12.65	8.57	6.16	1.32	15.25	10.19	7.71	0.27
12.70	8.64	6.23	1.24	15.30	10.21	7.72	0.27
12.75	8.71	6.29	1.16	15.35	10.22	7.74	0.26
12.80	8.77	6.35	1.11	15.40	10.24	7.75	0.26
12.85	8.83	6.41	1.05	15.45	10.26	7.77	0.26
12.90	8.89	6.47	1.01	15.50	10.27	7.78	0.26
12.95	8.95	6.52	0.95	15.55	10.29	7.80	0.26

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	10.30	7.81	0.26	18.20	10.94	8.42	0.16
15.65	10.32	7.83	0.25	18.25	10.95	8.43	0.16
15.70	10.33	7.84	0.25	18.30	10.96	8.44	0.16
15.75	10.35	7.85	0.25	18.35	10.97	8.45	0.16
15.80	10.36	7.87	0.25	18.40	10.98	8.46	0.15
15.85	10.38	7.88	0.24	18.45	10.99	8.47	0.15
15.90	10.39	7.90	0.24	18.50	11.00	8.48	0.15
15.95	10.41	7.91	0.24	18.55	11.01	8.49	0.15
16.00	10.42	7.92	0.24	18.60	11.01	8.49	0.15
16.05	10.44	7.94	0.24	18.65	11.02	8.50	0.15
16.10	10.45	7.95	0.24	18.70	11.03	8.51	0.15
16.15	10.46	7.97	0.23	18.75	11.04	8.52	0.15
16.20	10.48	7.98	0.23	18.80	11.05	8.53	0.15
16.25	10.49	7.99	0.23	18.85	11.06	8.54	0.15
16.30	10.51	8.01	0.23	18.90	11.07	8.55	0.15
16.35	10.52	8.02	0.23	18.95	11.08	8.56	0.15
16.40	10.53	8.03	0.22	19.00	11.09	8.56	0.15
16.45	10.55	8.04	0.22	19.05	11.10	8.57	0.15
16.50	10.56	8.06	0.22	19.10	11.10	8.58	0.15
16.55	10.57	8.07	0.22	19.15	11.11	8.59	0.15
16.60	10.59	8.08	0.22	19.20	11.12	8.60	0.15
16.65	10.60	8.09	0.21	19.25	11.13	8.61	0.15
16.70	10.61	8.11	0.21	19.30	11.14	8.62	0.15
16.75	10.62	8.12	0.21	19.35	11.15	8.62	0.15
16.80	10.64	8.13	0.21	19.40	11.16	8.63	0.15
16.85	10.65	8.14	0.21	19.45	11.17	8.64	0.14
16.90	10.66	8.15	0.21	19.50	11.18	8.65	0.14
16.95	10.67	8.17	0.20	19.55	11.18	8.66	0.14
17.00	10.69	8.18	0.20	19.60	11.19	8.67	0.14
17.05	10.70	8.19	0.20	19.65	11.20	8.67	0.14
17.10	10.71	8.20	0.20	19.70	11.21	8.68	0.14
17.15	10.72	8.21	0.20	19.75	11.22	8.69	0.14
17.20	10.73	8.22	0.19	19.80	11.23	8.70	0.14
17.25	10.74	8.23	0.19	19.85	11.24	8.71	0.14
17.30	10.75	8.24	0.19	19.90	11.24	8.72	0.14
17.35	10.77	8.26	0.19	19.95	11.25	8.72	0.14
17.40	10.78	8.27	0.19	20.00	11.26	8.73	0.14
17.45	10.79	8.28	0.18	20.05	11.27	8.74	0.14
17.50	10.80	8.29	0.18	20.10	11.28	8.75	0.14
17.55	10.81	8.30	0.18	20.15	11.29	8.76	0.14
17.60	10.82	8.31	0.18	20.20	11.29	8.76	0.14
17.65	10.83	8.32	0.18	20.25	11.30	8.77	0.14
17.70	10.84	8.33	0.17	20.30	11.31	8.78	0.14
17.75	10.85	8.34	0.17	20.35	11.32	8.79	0.14
17.80	10.86	8.35	0.17	20.40	11.33	8.80	0.14
17.85	10.87	8.36	0.17	20.45	11.33	8.80	0.13
17.90	10.88	8.37	0.17	20.50	11.34	8.81	0.13
17.95	10.89	8.38	0.16	20.55	11.35	8.82	0.13
18.00	10.90	8.39	0.16	20.60	11.36	8.83	0.13
18.05	10.91	8.40	0.16	20.65	11.37	8.83	0.13
18.10	10.92	8.40	0.16	20.70	11.38	8.84	0.13
18.15	10.93	8.41	0.16	20.75	11.38	8.85	0.13

Hydrograph for Subcatchment EDA3 PERV: EDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	11.39	8.86	0.13	23.40	11.76	9.22	0.11
20.85	11.40	8.87	0.13	23.45	11.77	9.22	0.11
20.90	11.41	8.87	0.13	23.50	11.78	9.23	0.11
20.95	11.41	8.88	0.13	23.55	11.78	9.24	0.10
21.00	11.42	8.89	0.13	23.60	11.79	9.24	0.10
21.05	11.43	8.90	0.13	23.65	11.79	9.25	0.10
21.10	11.44	8.90	0.13	23.70	11.80	9.25	0.10
21.15	11.45	8.91	0.13	23.75	11.81	9.26	0.10
21.20	11.45	8.92	0.13	23.80	11.81	9.27	0.10
21.25	11.46	8.93	0.13	23.85	11.82	9.27	0.10
21.30	11.47	8.93	0.13	23.90	11.82	9.28	0.10
21.35	11.48	8.94	0.13	23.95	11.83	9.28	0.11
21.40	11.48	8.95	0.13	24.00	**11.84**	**9.29**	0.12
21.45	11.49	8.95	0.13				
21.50	11.50	8.96	0.12				
21.55	11.51	8.97	0.12				
21.60	11.51	8.98	0.12				
21.65	11.52	8.98	0.12				
21.70	11.53	8.99	0.12				
21.75	11.54	9.00	0.12				
21.80	11.54	9.00	0.12				
21.85	11.55	9.01	0.12				
21.90	11.56	9.02	0.12				
21.95	11.57	9.03	0.12				
22.00	11.57	9.03	0.12				
22.05	11.58	9.04	0.12				
22.10	11.59	9.05	0.12				
22.15	11.59	9.05	0.12				
22.20	11.60	9.06	0.12				
22.25	11.61	9.07	0.12				
22.30	11.62	9.07	0.12				
22.35	11.62	9.08	0.12				
22.40	11.63	9.09	0.12				
22.45	11.64	9.09	0.12				
22.50	11.64	9.10	0.12				
22.55	11.65	9.11	0.11				
22.60	11.66	9.11	0.11				
22.65	11.66	9.12	0.11				
22.70	11.67	9.13	0.11				
22.75	11.68	9.13	0.11				
22.80	11.68	9.14	0.11				
22.85	11.69	9.15	0.11				
22.90	11.70	9.15	0.11				
22.95	11.70	9.16	0.11				
23.00	11.71	9.17	0.11				
23.05	11.72	9.17	0.11				
23.10	11.72	9.18	0.11				
23.15	11.73	9.19	0.11				
23.20	11.74	9.19	0.11				
23.25	11.74	9.20	0.11				
23.30	11.75	9.20	0.11				
23.35	11.76	9.21	0.11				

Summary for Subcatchment EDA4 IMP: EDA4 IMP

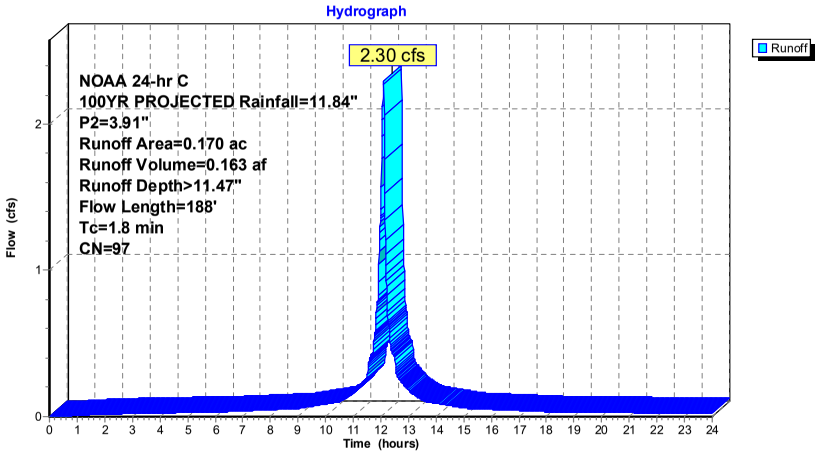
Runoff = 2.30 cfs @ 12.10 hrs, Volume= 0.163 af, Depth>11.47"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"

	Area (ac)	CN	Description
*	0.120	98	Impervious vehicular
	0.050	96	Gravel surface, HSG D
	0.170	97	Weighted Average
	0.050		29.41% Pervious Area
	0.120		70.59% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0160	1.39		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	88	0.0150	2.49		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
1.8	188	Total			

Subcatchment EDA4 IMP: EDA4 IMP



Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.36	0.14	0.02
0.05	0.01	0.00	0.00	2.65	0.36	0.15	0.02
0.10	0.02	0.00	0.00	2.70	0.37	0.15	0.02
0.15	0.02	0.00	0.00	2.75	0.38	0.16	0.02
0.20	0.03	0.00	0.00	2.80	0.39	0.17	0.02
0.25	0.03	0.00	0.00	2.85	0.39	0.17	0.02
0.30	0.04	0.00	0.00	2.90	0.40	0.18	0.02
0.35	0.05	0.00	0.00	2.95	0.41	0.18	0.02
0.40	0.05	0.00	0.00	3.00	0.42	0.19	0.02
0.45	0.06	0.00	0.00	3.05	0.43	0.20	0.02
0.50	0.06	0.00	0.00	3.10	0.43	0.20	0.02
0.55	0.07	0.00	0.00	3.15	0.44	0.21	0.02
0.60	0.08	0.00	0.00	3.20	0.45	0.22	0.02
0.65	0.08	0.00	0.00	3.25	0.46	0.22	0.02
0.70	0.09	0.00	0.00	3.30	0.46	0.23	0.02
0.75	0.10	0.00	0.00	3.35	0.47	0.23	0.02
0.80	0.10	0.00	0.00	3.40	0.48	0.24	0.02
0.85	0.11	0.01	0.00	3.45	0.49	0.25	0.02
0.90	0.12	0.01	0.01	3.50	0.50	0.25	0.02
0.95	0.12	0.01	0.01	3.55	0.51	0.26	0.02
1.00	0.13	0.01	0.01	3.60	0.51	0.27	0.02
1.05	0.14	0.01	0.01	3.65	0.52	0.27	0.02
1.10	0.14	0.02	0.01	3.70	0.53	0.28	0.02
1.15	0.15	0.02	0.01	3.75	0.54	0.29	0.02
1.20	0.16	0.02	0.01	3.80	0.55	0.30	0.02
1.25	0.16	0.02	0.01	3.85	0.55	0.30	0.02
1.30	0.17	0.03	0.01	3.90	0.56	0.31	0.02
1.35	0.18	0.03	0.01	3.95	0.57	0.32	0.02
1.40	0.18	0.03	0.01	4.00	0.58	0.32	0.02
1.45	0.19	0.04	0.01	4.05	0.59	0.33	0.02
1.50	0.20	0.04	0.01	4.10	0.60	0.34	0.02
1.55	0.20	0.04	0.01	4.15	0.60	0.35	0.03
1.60	0.21	0.05	0.01	4.20	0.61	0.35	0.03
1.65	0.22	0.05	0.01	4.25	0.62	0.36	0.03
1.70	0.22	0.06	0.01	4.30	0.63	0.37	0.03
1.75	0.23	0.06	0.01	4.35	0.64	0.38	0.03
1.80	0.24	0.06	0.01	4.40	0.65	0.38	0.03
1.85	0.25	0.07	0.01	4.45	0.66	0.39	0.03
1.90	0.25	0.07	0.01	4.50	0.66	0.40	0.03
1.95	0.26	0.08	0.02	4.55	0.67	0.41	0.03
2.00	0.27	0.08	0.02	4.60	0.68	0.41	0.03
2.05	0.27	0.09	0.02	4.65	0.69	0.42	0.03
2.10	0.28	0.09	0.02	4.70	0.70	0.43	0.03
2.15	0.29	0.10	0.02	4.75	0.71	0.44	0.03
2.20	0.30	0.10	0.02	4.80	0.72	0.45	0.03
2.25	0.30	0.11	0.02	4.85	0.73	0.45	0.03
2.30	0.31	0.11	0.02	4.90	0.74	0.46	0.03
2.35	0.32	0.12	0.02	4.95	0.74	0.47	0.03
2.40	0.33	0.12	0.02	5.00	0.75	0.48	0.03
2.45	0.33	0.13	0.02	5.05	0.76	0.49	0.03
2.50	0.34	0.13	0.02	5.10	0.77	0.49	0.03
2.55	0.35	0.14	0.02	5.15	0.78	0.50	0.03

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.79	0.51	0.03	7.80	1.36	1.05	0.05
5.25	0.80	0.52	0.03	7.85	1.38	1.06	0.05
5.30	0.81	0.53	0.03	7.90	1.39	1.08	0.05
5.35	0.82	0.54	0.03	7.95	1.40	1.09	0.05
5.40	0.83	0.54	0.03	8.00	1.42	1.10	0.05
5.45	0.83	0.55	0.03	8.05	1.43	1.12	0.05
5.50	0.84	0.56	0.03	8.10	1.45	1.13	0.05
5.55	0.85	0.57	0.03	8.15	1.46	1.15	0.05
5.60	0.86	0.58	0.03	8.20	1.48	1.16	0.05
5.65	0.87	0.59	0.03	8.25	1.49	1.18	0.05
5.70	0.88	0.60	0.03	8.30	1.51	1.19	0.05
5.75	0.89	0.60	0.03	8.35	1.52	1.20	0.05
5.80	0.90	0.61	0.03	8.40	1.54	1.22	0.05
5.85	0.91	0.62	0.03	8.45	1.55	1.23	0.05
5.90	0.92	0.63	0.03	8.50	1.57	1.25	0.05
5.95	0.93	0.64	0.03	8.55	1.58	1.26	0.05
6.00	0.94	0.65	0.03	8.60	1.60	1.28	0.05
6.05	0.95	0.66	0.03	8.65	1.62	1.30	0.05
6.10	0.96	0.67	0.03	8.70	1.63	1.31	0.05
6.15	0.97	0.68	0.03	8.75	1.65	1.33	0.05
6.20	0.98	0.68	0.03	8.80	1.66	1.34	0.05
6.25	0.99	0.69	0.03	8.85	1.68	1.36	0.05
6.30	1.00	0.70	0.03	8.90	1.70	1.37	0.05
6.35	1.01	0.71	0.03	8.95	1.71	1.39	0.06
6.40	1.02	0.72	0.03	9.00	1.73	1.41	0.06
6.45	1.03	0.73	0.03	9.05	1.75	1.42	0.06
6.50	1.04	0.74	0.03	9.10	1.76	1.44	0.06
6.55	1.05	0.75	0.04	9.15	1.78	1.46	0.06
6.60	1.06	0.76	0.04	9.20	1.80	1.48	0.06
6.65	1.07	0.78	0.04	9.25	1.82	1.50	0.06
6.70	1.09	0.79	0.04	9.30	1.84	1.51	0.06
6.75	1.10	0.80	0.04	9.35	1.86	1.53	0.07
6.80	1.11	0.81	0.04	9.40	1.88	1.55	0.07
6.85	1.12	0.82	0.04	9.45	1.90	1.57	0.07
6.90	1.13	0.83	0.04	9.50	1.92	1.59	0.07
6.95	1.14	0.84	0.04	9.55	1.94	1.62	0.07
7.00	1.15	0.85	0.04	9.60	1.97	1.64	0.07
7.05	1.17	0.86	0.04	9.65	1.99	1.66	0.08
7.10	1.18	0.88	0.04	9.70	2.01	1.68	0.08
7.15	1.19	0.89	0.04	9.75	2.03	1.71	0.08
7.20	1.20	0.90	0.04	9.80	2.06	1.73	0.08
7.25	1.22	0.91	0.04	9.85	2.08	1.75	0.08
7.30	1.23	0.92	0.04	9.90	2.11	1.78	0.08
7.35	1.24	0.93	0.04	9.95	2.13	1.80	0.08
7.40	1.25	0.95	0.04	10.00	2.16	1.83	0.09
7.45	1.27	0.96	0.04	10.05	2.19	1.85	0.09
7.50	1.28	0.97	0.04	10.10	2.21	1.88	0.09
7.55	1.29	0.99	0.04	10.15	2.24	1.91	0.09
7.60	1.31	1.00	0.04	10.20	2.27	1.93	0.09
7.65	1.32	1.01	0.04	10.25	2.29	1.96	0.09
7.70	1.33	1.02	0.04	10.30	2.32	1.99	0.09
7.75	1.35	1.04	0.05	10.35	2.35	2.02	0.10

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	2.38	2.05	0.10	13.00	9.00	8.64	0.18
10.45	2.41	2.08	0.10	13.05	9.05	8.68	0.17
10.50	2.44	2.10	0.10	13.10	9.09	8.73	0.16
10.55	2.47	2.14	0.11	13.15	9.14	8.77	0.15
10.60	2.51	2.17	0.11	13.20	9.18	8.82	0.15
10.65	2.54	2.21	0.12	13.25	9.22	8.86	0.14
10.70	2.58	2.24	0.12	13.30	9.26	8.90	0.14
10.75	2.62	2.28	0.13	13.35	9.30	8.94	0.13
10.80	2.66	2.32	0.14	13.40	9.33	8.97	0.13
10.85	2.70	2.37	0.14	13.45	9.37	9.01	0.12
10.90	2.75	2.41	0.15	13.50	9.40	9.04	0.11
10.95	2.79	2.45	0.16	13.55	9.43	9.07	0.11
11.00	2.84	2.50	0.16	13.60	9.46	9.10	0.10
11.05	2.89	2.55	0.17	13.65	9.49	9.13	0.10
11.10	2.95	2.61	0.18	13.70	9.52	9.16	0.10
11.15	3.01	2.67	0.19	13.75	9.55	9.18	0.10
11.20	3.07	2.73	0.20	13.80	9.57	9.21	0.10
11.25	3.13	2.79	0.22	13.85	9.60	9.24	0.09
11.30	3.20	2.86	0.22	13.90	9.63	9.27	0.09
11.35	3.27	2.93	0.24	13.95	9.65	9.29	0.09
11.40	3.34	3.00	0.24	14.00	9.68	9.32	0.09
11.45	3.42	3.08	0.26	14.05	9.71	9.35	0.09
11.50	3.50	3.15	0.26	14.10	9.73	9.37	0.09
11.55	3.62	3.27	0.36	14.15	9.76	9.40	0.09
11.60	3.74	3.39	0.40	14.20	9.78	9.42	0.08
11.65	3.86	3.52	0.42	14.25	9.81	9.44	0.08
11.70	3.99	3.64	0.43	14.30	9.83	9.47	0.08
11.75	4.16	3.81	0.53	14.35	9.85	9.49	0.08
11.80	4.34	3.99	0.58	14.40	9.87	9.51	0.08
11.85	4.58	4.22	0.74	14.45	9.90	9.53	0.08
11.90	4.82	4.46	0.80	14.50	9.92	9.56	0.08
11.95	5.23	4.88	1.21	14.55	9.94	9.58	0.07
12.00	5.64	5.29	1.37	14.60	9.96	9.60	0.07
12.05	6.33	5.98	2.03	14.65	9.98	9.62	0.07
12.10	7.02	6.67	**2.30**	14.70	10.00	9.64	0.07
12.15	7.26	6.91	1.34	14.75	10.02	9.66	0.07
12.20	7.50	7.15	0.93	14.80	10.04	9.68	0.07
12.25	7.68	7.32	0.69	14.85	10.06	9.70	0.06
12.30	7.85	7.49	0.61	14.90	10.08	9.71	0.06
12.35	7.98	7.62	0.49	14.95	10.09	9.73	0.06
12.40	8.10	7.74	0.44	15.00	10.11	9.75	0.06
12.45	8.22	7.86	0.42	15.05	10.13	9.77	0.06
12.50	8.34	7.98	0.41	15.10	10.14	9.78	0.06
12.55	8.42	8.06	0.31	15.15	10.16	9.80	0.06
12.60	8.50	8.14	0.27	15.20	10.18	9.81	0.06
12.65	8.57	8.21	0.26	15.25	10.19	9.83	0.06
12.70	8.64	8.28	0.25	15.30	10.21	9.85	0.06
12.75	8.71	8.35	0.23	15.35	10.22	9.86	0.05
12.80	8.77	8.41	0.23	15.40	10.24	9.88	0.05
12.85	8.83	8.47	0.21	15.45	10.26	9.89	0.05
12.90	8.89	8.53	0.21	15.50	10.27	9.91	0.05
12.95	8.95	8.58	0.19	15.55	10.29	9.93	0.05

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	10.30	9.94	0.05	18.20	10.94	10.58	0.03
15.65	10.32	9.96	0.05	18.25	10.95	10.59	0.03
15.70	10.33	9.97	0.05	18.30	10.96	10.60	0.03
15.75	10.35	9.99	0.05	18.35	10.97	10.61	0.03
15.80	10.36	10.00	0.05	18.40	10.98	10.61	0.03
15.85	10.38	10.02	0.05	18.45	10.99	10.62	0.03
15.90	10.39	10.03	0.05	18.50	11.00	10.63	0.03
15.95	10.41	10.04	0.05	18.55	11.01	10.64	0.03
16.00	10.42	10.06	0.05	18.60	11.01	10.65	0.03
16.05	10.44	10.07	0.05	18.65	11.02	10.66	0.03
16.10	10.45	10.09	0.05	18.70	11.03	10.67	0.03
16.15	10.46	10.10	0.05	18.75	11.04	10.68	0.03
16.20	10.48	10.12	0.05	18.80	11.05	10.69	0.03
16.25	10.49	10.13	0.05	18.85	11.06	10.70	0.03
16.30	10.51	10.14	0.05	18.90	11.07	10.71	0.03
16.35	10.52	10.16	0.05	18.95	11.08	10.72	0.03
16.40	10.53	10.17	0.05	19.00	11.09	10.72	0.03
16.45	10.55	10.18	0.05	19.05	11.10	10.73	0.03
16.50	10.56	10.20	0.05	19.10	11.10	10.74	0.03
16.55	10.57	10.21	0.05	19.15	11.11	10.75	0.03
16.60	10.59	10.22	0.04	19.20	11.12	10.76	0.03
16.65	10.60	10.24	0.04	19.25	11.13	10.77	0.03
16.70	10.61	10.25	0.04	19.30	11.14	10.78	0.03
16.75	10.62	10.26	0.04	19.35	11.15	10.79	0.03
16.80	10.64	10.27	0.04	19.40	11.16	10.80	0.03
16.85	10.65	10.29	0.04	19.45	11.17	10.80	0.03
16.90	10.66	10.30	0.04	19.50	11.18	10.81	0.03
16.95	10.67	10.31	0.04	19.55	11.18	10.82	0.03
17.00	10.69	10.32	0.04	19.60	11.19	10.83	0.03
17.05	10.70	10.33	0.04	19.65	11.20	10.84	0.03
17.10	10.71	10.35	0.04	19.70	11.21	10.85	0.03
17.15	10.72	10.36	0.04	19.75	11.22	10.86	0.03
17.20	10.73	10.37	0.04	19.80	11.23	10.86	0.03
17.25	10.74	10.38	0.04	19.85	11.24	10.87	0.03
17.30	10.75	10.39	0.04	19.90	11.24	10.88	0.03
17.35	10.77	10.40	0.04	19.95	11.25	10.89	0.03
17.40	10.78	10.41	0.04	20.00	11.26	10.90	0.03
17.45	10.79	10.43	0.04	20.05	11.27	10.91	0.03
17.50	10.80	10.44	0.04	20.10	11.28	10.91	0.03
17.55	10.81	10.45	0.04	20.15	11.29	10.92	0.03
17.60	10.82	10.46	0.04	20.20	11.29	10.93	0.03
17.65	10.83	10.47	0.04	20.25	11.30	10.94	0.03
17.70	10.84	10.48	0.04	20.30	11.31	10.95	0.03
17.75	10.85	10.49	0.04	20.35	11.32	10.96	0.03
17.80	10.86	10.50	0.04	20.40	11.33	10.96	0.03
17.85	10.87	10.51	0.03	20.45	11.33	10.97	0.03
17.90	10.88	10.52	0.03	20.50	11.34	10.98	0.03
17.95	10.89	10.53	0.03	20.55	11.35	10.99	0.03
18.00	10.90	10.54	0.03	20.60	11.36	11.00	0.03
18.05	10.91	10.55	0.03	20.65	11.37	11.00	0.03
18.10	10.92	10.56	0.03	20.70	11.38	11.01	0.03
18.15	10.93	10.57	0.03	20.75	11.38	11.02	0.03

Hydrograph for Subcatchment EDA4 IMP: EDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	11.39	11.03	0.03	23.40	11.76	11.40	0.02
20.85	11.40	11.04	0.03	23.45	11.77	11.41	0.02
20.90	11.41	11.04	0.03	23.50	11.78	11.41	0.02
20.95	11.41	11.05	0.03	23.55	11.78	11.42	0.02
21.00	11.42	11.06	0.03	23.60	11.79	11.42	0.02
21.05	11.43	11.07	0.03	23.65	11.79	11.43	0.02
21.10	11.44	11.07	0.03	23.70	11.80	11.44	0.02
21.15	11.45	11.08	0.03	23.75	11.81	11.44	0.02
21.20	11.45	11.09	0.03	23.80	11.81	11.45	0.02
21.25	11.46	11.10	0.03	23.85	11.82	11.46	0.02
21.30	11.47	11.11	0.03	23.90	11.82	11.46	0.02
21.35	11.48	11.11	0.03	23.95	11.83	11.47	0.02
21.40	11.48	11.12	0.03	24.00	**11.84**	**11.48**	0.03
21.45	11.49	11.13	0.03				
21.50	11.50	11.14	0.03				
21.55	11.51	11.14	0.03				
21.60	11.51	11.15	0.03				
21.65	11.52	11.16	0.03				
21.70	11.53	11.17	0.03				
21.75	11.54	11.17	0.03				
21.80	11.54	11.18	0.03				
21.85	11.55	11.19	0.03				
21.90	11.56	11.19	0.02				
21.95	11.57	11.20	0.02				
22.00	11.57	11.21	0.02				
22.05	11.58	11.22	0.02				
22.10	11.59	11.22	0.02				
22.15	11.59	11.23	0.02				
22.20	11.60	11.24	0.02				
22.25	11.61	11.24	0.02				
22.30	11.62	11.25	0.02				
22.35	11.62	11.26	0.02				
22.40	11.63	11.27	0.02				
22.45	11.64	11.27	0.02				
22.50	11.64	11.28	0.02				
22.55	11.65	11.29	0.02				
22.60	11.66	11.29	0.02				
22.65	11.66	11.30	0.02				
22.70	11.67	11.31	0.02				
22.75	11.68	11.31	0.02				
22.80	11.68	11.32	0.02				
22.85	11.69	11.33	0.02				
22.90	11.70	11.33	0.02				
22.95	11.70	11.34	0.02				
23.00	11.71	11.35	0.02				
23.05	11.72	11.35	0.02				
23.10	11.72	11.36	0.02				
23.15	11.73	11.37	0.02				
23.20	11.74	11.37	0.02				
23.25	11.74	11.38	0.02				
23.30	11.75	11.39	0.02				
23.35	11.76	11.39	0.02				

Summary for Subcatchment EDA4 PERV: EDA4 PERV

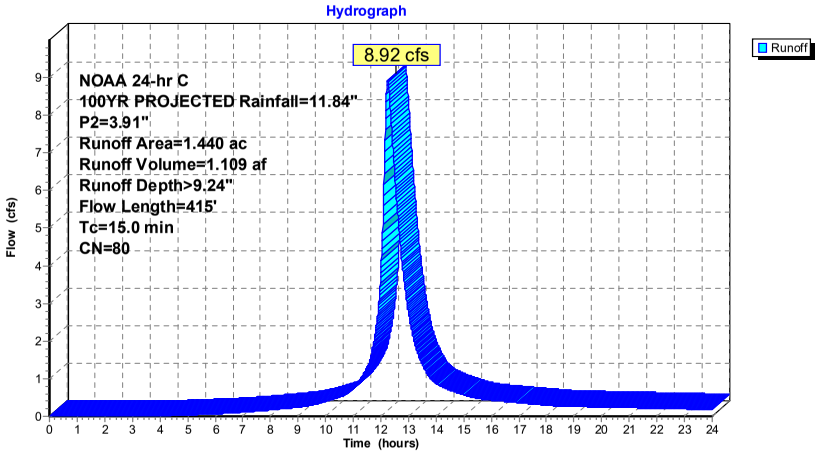
Runoff = 8.92 cfs @ 12.24 hrs, Volume= 1.109 af, Depth> 9.24"
Routed to Link EPOI-1 : EPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"

Area (ac)	CN	Description
1.440	80	>75% Grass cover, Good, HSG D
1.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.8	100	0.0080	0.13		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
1.1	115	0.0140	1.77		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
0.5	100	0.0039	3.22	5.69	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.6	100	0.0020	2.79	8.77	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
15.0	415	Total			

Subcatchment EDA4 PERV: EDA4 PERV



Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.36	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.36	0.00	0.00
0.10	0.02	0.00	0.00	2.70	0.37	0.00	0.00
0.15	0.02	0.00	0.00	2.75	0.38	0.00	0.00
0.20	0.03	0.00	0.00	2.80	0.39	0.00	0.00
0.25	0.03	0.00	0.00	2.85	0.39	0.00	0.00
0.30	0.04	0.00	0.00	2.90	0.40	0.00	0.00
0.35	0.05	0.00	0.00	2.95	0.41	0.00	0.00
0.40	0.05	0.00	0.00	3.00	0.42	0.00	0.00
0.45	0.06	0.00	0.00	3.05	0.43	0.00	0.00
0.50	0.06	0.00	0.00	3.10	0.43	0.00	0.00
0.55	0.07	0.00	0.00	3.15	0.44	0.00	0.00
0.60	0.08	0.00	0.00	3.20	0.45	0.00	0.00
0.65	0.08	0.00	0.00	3.25	0.46	0.00	0.00
0.70	0.09	0.00	0.00	3.30	0.46	0.00	0.00
0.75	0.10	0.00	0.00	3.35	0.47	0.00	0.00
0.80	0.10	0.00	0.00	3.40	0.48	0.00	0.00
0.85	0.11	0.00	0.00	3.45	0.49	0.00	0.00
0.90	0.12	0.00	0.00	3.50	0.50	0.00	0.00
0.95	0.12	0.00	0.00	3.55	0.51	0.00	0.00
1.00	0.13	0.00	0.00	3.60	0.51	0.00	0.00
1.05	0.14	0.00	0.00	3.65	0.52	0.00	0.00
1.10	0.14	0.00	0.00	3.70	0.53	0.00	0.00
1.15	0.15	0.00	0.00	3.75	0.54	0.00	0.00
1.20	0.16	0.00	0.00	3.80	0.55	0.00	0.00
1.25	0.16	0.00	0.00	3.85	0.55	0.00	0.00
1.30	0.17	0.00	0.00	3.90	0.56	0.00	0.00
1.35	0.18	0.00	0.00	3.95	0.57	0.00	0.00
1.40	0.18	0.00	0.00	4.00	0.58	0.00	0.01
1.45	0.19	0.00	0.00	4.05	0.59	0.00	0.01
1.50	0.20	0.00	0.00	4.10	0.60	0.00	0.01
1.55	0.20	0.00	0.00	4.15	0.60	0.00	0.01
1.60	0.21	0.00	0.00	4.20	0.61	0.00	0.01
1.65	0.22	0.00	0.00	4.25	0.62	0.01	0.01
1.70	0.22	0.00	0.00	4.30	0.63	0.01	0.01
1.75	0.23	0.00	0.00	4.35	0.64	0.01	0.01
1.80	0.24	0.00	0.00	4.40	0.65	0.01	0.02
1.85	0.25	0.00	0.00	4.45	0.66	0.01	0.02
1.90	0.25	0.00	0.00	4.50	0.66	0.01	0.02
1.95	0.26	0.00	0.00	4.55	0.67	0.01	0.02
2.00	0.27	0.00	0.00	4.60	0.68	0.01	0.02
2.05	0.27	0.00	0.00	4.65	0.69	0.01	0.02
2.10	0.28	0.00	0.00	4.70	0.70	0.01	0.02
2.15	0.29	0.00	0.00	4.75	0.71	0.02	0.03
2.20	0.30	0.00	0.00	4.80	0.72	0.02	0.03
2.25	0.30	0.00	0.00	4.85	0.73	0.02	0.03
2.30	0.31	0.00	0.00	4.90	0.74	0.02	0.03
2.35	0.32	0.00	0.00	4.95	0.74	0.02	0.03
2.40	0.33	0.00	0.00	5.00	0.75	0.02	0.03
2.45	0.33	0.00	0.00	5.05	0.76	0.02	0.04
2.50	0.34	0.00	0.00	5.10	0.77	0.03	0.04
2.55	0.35	0.00	0.00	5.15	0.78	0.03	0.04

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.79	0.03	0.04	7.80	1.36	0.22	0.16
5.25	0.80	0.03	0.04	7.85	1.38	0.23	0.16
5.30	0.81	0.03	0.04	7.90	1.39	0.23	0.16
5.35	0.82	0.04	0.04	7.95	1.40	0.24	0.17
5.40	0.83	0.04	0.05	8.00	1.42	0.25	0.17
5.45	0.83	0.04	0.05	8.05	1.43	0.25	0.17
5.50	0.84	0.04	0.05	8.10	1.45	0.26	0.18
5.55	0.85	0.04	0.05	8.15	1.46	0.27	0.18
5.60	0.86	0.05	0.05	8.20	1.48	0.27	0.18
5.65	0.87	0.05	0.05	8.25	1.49	0.28	0.19
5.70	0.88	0.05	0.06	8.30	1.51	0.29	0.19
5.75	0.89	0.05	0.06	8.35	1.52	0.30	0.19
5.80	0.90	0.06	0.06	8.40	1.54	0.30	0.20
5.85	0.91	0.06	0.06	8.45	1.55	0.31	0.20
5.90	0.92	0.06	0.06	8.50	1.57	0.32	0.20
5.95	0.93	0.06	0.06	8.55	1.58	0.33	0.21
6.00	0.94	0.07	0.06	8.60	1.60	0.34	0.21
6.05	0.95	0.07	0.07	8.65	1.62	0.34	0.21
6.10	0.96	0.07	0.07	8.70	1.63	0.35	0.22
6.15	0.97	0.07	0.07	8.75	1.65	0.36	0.22
6.20	0.98	0.08	0.07	8.80	1.66	0.37	0.22
6.25	0.99	0.08	0.07	8.85	1.68	0.38	0.23
6.30	1.00	0.08	0.08	8.90	1.70	0.39	0.23
6.35	1.01	0.09	0.08	8.95	1.71	0.40	0.23
6.40	1.02	0.09	0.08	9.00	1.73	0.41	0.24
6.45	1.03	0.09	0.08	9.05	1.75	0.41	0.24
6.50	1.04	0.10	0.08	9.10	1.76	0.42	0.25
6.55	1.05	0.10	0.09	9.15	1.78	0.43	0.25
6.60	1.06	0.10	0.09	9.20	1.80	0.45	0.26
6.65	1.07	0.11	0.09	9.25	1.82	0.46	0.26
6.70	1.09	0.11	0.09	9.30	1.84	0.47	0.27
6.75	1.10	0.11	0.10	9.35	1.86	0.48	0.28
6.80	1.11	0.12	0.10	9.40	1.88	0.49	0.28
6.85	1.12	0.12	0.10	9.45	1.90	0.50	0.29
6.90	1.13	0.13	0.10	9.50	1.92	0.52	0.30
6.95	1.14	0.13	0.11	9.55	1.94	0.53	0.31
7.00	1.15	0.14	0.11	9.60	1.97	0.54	0.32
7.05	1.17	0.14	0.11	9.65	1.99	0.56	0.33
7.10	1.18	0.15	0.11	9.70	2.01	0.57	0.34
7.15	1.19	0.15	0.12	9.75	2.03	0.58	0.35
7.20	1.20	0.15	0.12	9.80	2.06	0.60	0.36
7.25	1.22	0.16	0.12	9.85	2.08	0.61	0.37
7.30	1.23	0.16	0.13	9.90	2.11	0.63	0.38
7.35	1.24	0.17	0.13	9.95	2.13	0.65	0.39
7.40	1.25	0.17	0.13	10.00	2.16	0.66	0.40
7.45	1.27	0.18	0.13	10.05	2.19	0.68	0.41
7.50	1.28	0.19	0.14	10.10	2.21	0.70	0.42
7.55	1.29	0.19	0.14	10.15	2.24	0.71	0.43
7.60	1.31	0.20	0.14	10.20	2.27	0.73	0.44
7.65	1.32	0.20	0.15	10.25	2.29	0.75	0.45
7.70	1.33	0.21	0.15	10.30	2.32	0.77	0.46
7.75	1.35	0.21	0.15	10.35	2.35	0.79	0.47

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	2.38	0.81	0.49	13.00	9.00	6.57	2.76
10.45	2.41	0.83	0.50	13.05	9.05	6.61	2.55
10.50	2.44	0.85	0.51	13.10	9.09	6.66	2.35
10.55	2.47	0.87	0.52	13.15	9.14	6.70	2.17
10.60	2.51	0.89	0.54	13.20	9.18	6.74	2.01
10.65	2.54	0.92	0.55	13.25	9.22	6.78	1.87
10.70	2.58	0.94	0.57	13.30	9.26	6.81	1.75
10.75	2.62	0.97	0.60	13.35	9.30	6.85	1.64
10.80	2.66	1.00	0.62	13.40	9.33	6.88	1.54
10.85	2.70	1.03	0.65	13.45	9.37	6.92	1.46
10.90	2.75	1.06	0.68	13.50	9.40	6.95	1.38
10.95	2.79	1.10	0.71	13.55	9.43	6.98	1.30
11.00	2.84	1.13	0.75	13.60	9.46	7.01	1.23
11.05	2.89	1.17	0.78	13.65	9.49	7.03	1.16
11.10	2.95	1.21	0.82	13.70	9.52	7.06	1.10
11.15	3.01	1.26	0.87	13.75	9.55	7.09	1.04
11.20	3.07	1.30	0.92	13.80	9.57	7.11	1.00
11.25	3.13	1.35	0.97	13.85	9.60	7.14	0.96
11.30	3.20	1.40	1.03	13.90	9.63	7.17	0.93
11.35	3.27	1.46	1.09	13.95	9.65	7.19	0.90
11.40	3.34	1.51	1.16	14.00	9.68	7.22	0.87
11.45	3.42	1.57	1.22	14.05	9.71	7.24	0.85
11.50	3.50	1.64	1.29	14.10	9.73	7.26	0.83
11.55	3.62	1.73	1.37	14.15	9.76	7.29	0.81
11.60	3.74	1.83	1.47	14.20	9.78	7.31	0.79
11.65	3.86	1.93	1.62	14.25	9.81	7.33	0.77
11.70	3.99	2.03	1.81	14.30	9.83	7.36	0.75
11.75	4.16	2.18	1.99	14.35	9.85	7.38	0.74
11.80	4.34	2.32	2.20	14.40	9.87	7.40	0.72
11.85	4.58	2.53	2.46	14.45	9.90	7.42	0.71
11.90	4.82	2.73	2.79	14.50	9.92	7.44	0.70
11.95	5.23	3.09	3.22	14.55	9.94	7.46	0.68
12.00	5.64	3.46	3.81	14.60	9.96	7.48	0.67
12.05	6.33	4.08	4.67	14.65	9.98	7.50	0.66
12.10	7.02	4.72	5.85	14.70	10.00	7.52	0.64
12.15	7.26	4.94	7.34	14.75	10.02	7.54	0.63
12.20	7.50	5.16	**8.57**	14.80	10.04	7.56	0.62
12.25	7.68	5.32	**8.91**	14.85	10.06	7.58	0.61
12.30	7.85	5.48	8.62	14.90	10.08	7.59	0.59
12.35	7.98	5.60	8.10	14.95	10.09	7.61	0.58
12.40	8.10	5.72	7.54	15.00	10.11	7.63	0.57
12.45	8.22	5.83	6.97	15.05	10.13	7.64	0.56
12.50	8.34	5.95	6.43	15.10	10.14	7.66	0.54
12.55	8.42	6.02	5.95	15.15	10.16	7.67	0.53
12.60	8.50	6.09	5.49	15.20	10.18	7.69	0.52
12.65	8.57	6.16	5.03	15.25	10.19	7.71	0.51
12.70	8.64	6.23	4.59	15.30	10.21	7.72	0.50
12.75	8.71	6.29	4.19	15.35	10.22	7.74	0.49
12.80	8.77	6.35	3.84	15.40	10.24	7.75	0.48
12.85	8.83	6.41	3.53	15.45	10.26	7.77	0.48
12.90	8.89	6.47	3.25	15.50	10.27	7.78	0.47
12.95	8.95	6.52	3.00	15.55	10.29	7.80	0.47

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	10.30	7.81	0.46	18.20	10.94	8.42	0.28
15.65	10.32	7.83	0.46	18.25	10.95	8.43	0.28
15.70	10.33	7.84	0.45	18.30	10.96	8.44	0.28
15.75	10.35	7.85	0.45	18.35	10.97	8.45	0.27
15.80	10.36	7.87	0.44	18.40	10.98	8.46	0.27
15.85	10.38	7.88	0.44	18.45	10.99	8.47	0.27
15.90	10.39	7.90	0.43	18.50	11.00	8.48	0.27
15.95	10.41	7.91	0.43	18.55	11.01	8.49	0.27
16.00	10.42	7.92	0.43	18.60	11.01	8.49	0.27
16.05	10.44	7.94	0.42	18.65	11.02	8.50	0.26
16.10	10.45	7.95	0.42	18.70	11.03	8.51	0.26
16.15	10.46	7.97	0.42	18.75	11.04	8.52	0.26
16.20	10.48	7.98	0.41	18.80	11.05	8.53	0.26
16.25	10.49	7.99	0.41	18.85	11.06	8.54	0.26
16.30	10.51	8.01	0.41	18.90	11.07	8.55	0.26
16.35	10.52	8.02	0.40	18.95	11.08	8.56	0.26
16.40	10.53	8.03	0.40	19.00	11.09	8.56	0.26
16.45	10.55	8.04	0.40	19.05	11.10	8.57	0.26
16.50	10.56	8.06	0.39	19.10	11.10	8.58	0.26
16.55	10.57	8.07	0.39	19.15	11.11	8.59	0.25
16.60	10.59	8.08	0.39	19.20	11.12	8.60	0.25
16.65	10.60	8.09	0.38	19.25	11.13	8.61	0.25
16.70	10.61	8.11	0.38	19.30	11.14	8.62	0.25
16.75	10.62	8.12	0.38	19.35	11.15	8.62	0.25
16.80	10.64	8.13	0.37	19.40	11.16	8.63	0.25
16.85	10.65	8.14	0.37	19.45	11.17	8.64	0.25
16.90	10.66	8.15	0.37	19.50	11.18	8.65	0.25
16.95	10.67	8.17	0.36	19.55	11.18	8.66	0.25
17.00	10.69	8.18	0.36	19.60	11.19	8.67	0.25
17.05	10.70	8.19	0.36	19.65	11.20	8.67	0.25
17.10	10.71	8.20	0.35	19.70	11.21	8.68	0.25
17.15	10.72	8.21	0.35	19.75	11.22	8.69	0.24
17.20	10.73	8.22	0.35	19.80	11.23	8.70	0.24
17.25	10.74	8.23	0.34	19.85	11.24	8.71	0.24
17.30	10.75	8.24	0.34	19.90	11.24	8.72	0.24
17.35	10.77	8.26	0.34	19.95	11.25	8.72	0.24
17.40	10.78	8.27	0.33	20.00	11.26	8.73	0.24
17.45	10.79	8.28	0.33	20.05	11.27	8.74	0.24
17.50	10.80	8.29	0.33	20.10	11.28	8.75	0.24
17.55	10.81	8.30	0.32	20.15	11.29	8.76	0.24
17.60	10.82	8.31	0.32	20.20	11.29	8.76	0.24
17.65	10.83	8.32	0.32	20.25	11.30	8.77	0.24
17.70	10.84	8.33	0.31	20.30	11.31	8.78	0.24
17.75	10.85	8.34	0.31	20.35	11.32	8.79	0.24
17.80	10.86	8.35	0.31	20.40	11.33	8.80	0.23
17.85	10.87	8.36	0.30	20.45	11.33	8.80	0.23
17.90	10.88	8.37	0.30	20.50	11.34	8.81	0.23
17.95	10.89	8.38	0.30	20.55	11.35	8.82	0.23
18.00	10.90	8.39	0.29	20.60	11.36	8.83	0.23
18.05	10.91	8.40	0.29	20.65	11.37	8.83	0.23
18.10	10.92	8.40	0.29	20.70	11.38	8.84	0.23
18.15	10.93	8.41	0.29	20.75	11.38	8.85	0.23

Hydrograph for Subcatchment EDA4 PERV: EDA4 PERV (continued)

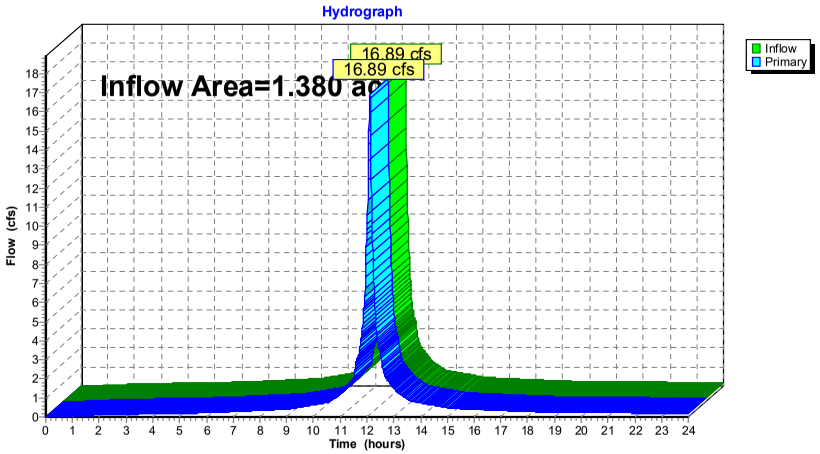
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	11.39	8.86	0.23	23.40	11.76	9.22	0.19
20.85	11.40	8.87	0.23	23.45	11.77	9.22	0.18
20.90	11.41	8.87	0.23	23.50	11.78	9.23	0.18
20.95	11.41	8.88	0.23	23.55	11.78	9.24	0.18
21.00	11.42	8.89	0.22	23.60	11.79	9.24	0.18
21.05	11.43	8.90	0.22	23.65	11.79	9.25	0.18
21.10	11.44	8.90	0.22	23.70	11.80	9.25	0.18
21.15	11.45	8.91	0.22	23.75	11.81	9.26	0.18
21.20	11.45	8.92	0.22	23.80	11.81	9.27	0.18
21.25	11.46	8.93	0.22	23.85	11.82	9.27	0.18
21.30	11.47	8.93	0.22	23.90	11.82	9.28	0.18
21.35	11.48	8.94	0.22	23.95	11.83	9.28	0.18
21.40	11.48	8.95	0.22	24.00	**11.84**	**9.29**	0.18
21.45	11.49	8.95	0.22				
21.50	11.50	8.96	0.22				
21.55	11.51	8.97	0.22				
21.60	11.51	8.98	0.21				
21.65	11.52	8.98	0.21				
21.70	11.53	8.99	0.21				
21.75	11.54	9.00	0.21				
21.80	11.54	9.00	0.21				
21.85	11.55	9.01	0.21				
21.90	11.56	9.02	0.21				
21.95	11.57	9.03	0.21				
22.00	11.57	9.03	0.21				
22.05	11.58	9.04	0.21				
22.10	11.59	9.05	0.21				
22.15	11.59	9.05	0.21				
22.20	11.60	9.06	0.21				
22.25	11.61	9.07	0.20				
22.30	11.62	9.07	0.20				
22.35	11.62	9.08	0.20				
22.40	11.63	9.09	0.20				
22.45	11.64	9.09	0.20				
22.50	11.64	9.10	0.20				
22.55	11.65	9.11	0.20				
22.60	11.66	9.11	0.20				
22.65	11.66	9.12	0.20				
22.70	11.67	9.13	0.20				
22.75	11.68	9.13	0.20				
22.80	11.68	9.14	0.20				
22.85	11.69	9.15	0.19				
22.90	11.70	9.15	0.19				
22.95	11.70	9.16	0.19				
23.00	11.71	9.17	0.19				
23.05	11.72	9.17	0.19				
23.10	11.72	9.18	0.19				
23.15	11.73	9.19	0.19				
23.20	11.74	9.19	0.19				
23.25	11.74	9.20	0.19				
23.30	11.75	9.20	0.19				
23.35	11.76	9.21	0.19				

Summary for Link E1A: E1A

Inflow Area = 1.380 ac, 54.35% Impervious, Inflow Depth > 11.02" for 100YR PROJECTED event
Inflow = 16.89 cfs @ 12.11 hrs, Volume= 1.268 af
Primary = 16.89 cfs @ 12.11 hrs, Volume= 1.268 af, Atten= 0%, Lag= 0.0 min
Routed to Link EPOI-1 : EPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link E1A: E1A



Hydrograph for Link E1A: E1A

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.12	0.00	0.12
0.05	0.00	0.00	0.00	2.65	0.12	0.00	0.12
0.10	0.00	0.00	0.00	2.70	0.12	0.00	0.12
0.15	0.00	0.00	0.00	2.75	0.13	0.00	0.13
0.20	0.00	0.00	0.00	2.80	0.13	0.00	0.13
0.25	0.00	0.00	0.00	2.85	0.13	0.00	0.13
0.30	0.00	0.00	0.00	2.90	0.13	0.00	0.13
0.35	0.00	0.00	0.00	2.95	0.13	0.00	0.13
0.40	0.00	0.00	0.00	3.00	0.13	0.00	0.13
0.45	0.00	0.00	0.00	3.05	0.13	0.00	0.13
0.50	0.00	0.00	0.00	3.10	0.14	0.00	0.14
0.55	0.00	0.00	0.00	3.15	0.14	0.00	0.14
0.60	0.01	0.00	0.01	3.20	0.14	0.00	0.14
0.65	0.01	0.00	0.01	3.25	0.14	0.00	0.14
0.70	0.02	0.00	0.02	3.30	0.14	0.00	0.14
0.75	0.02	0.00	0.02	3.35	0.14	0.00	0.14
0.80	0.02	0.00	0.02	3.40	0.14	0.00	0.14
0.85	0.03	0.00	0.03	3.45	0.15	0.00	0.15
0.90	0.03	0.00	0.03	3.50	0.15	0.00	0.15
0.95	0.04	0.00	0.04	3.55	0.15	0.00	0.15
1.00	0.04	0.00	0.04	3.60	0.15	0.00	0.15
1.05	0.05	0.00	0.05	3.65	0.15	0.00	0.15
1.10	0.05	0.00	0.05	3.70	0.15	0.00	0.15
1.15	0.05	0.00	0.05	3.75	0.15	0.00	0.15
1.20	0.06	0.00	0.06	3.80	0.15	0.00	0.15
1.25	0.06	0.00	0.06	3.85	0.16	0.00	0.16
1.30	0.06	0.00	0.06	3.90	0.16	0.00	0.16
1.35	0.07	0.00	0.07	3.95	0.16	0.00	0.16
1.40	0.07	0.00	0.07	4.00	0.16	0.00	0.16
1.45	0.07	0.00	0.07	4.05	0.16	0.00	0.16
1.50	0.08	0.00	0.08	4.10	0.16	0.00	0.16
1.55	0.08	0.00	0.08	4.15	0.16	0.00	0.16
1.60	0.08	0.00	0.08	4.20	0.17	0.00	0.17
1.65	0.08	0.00	0.08	4.25	0.17	0.00	0.17
1.70	0.09	0.00	0.09	4.30	0.17	0.00	0.17
1.75	0.09	0.00	0.09	4.35	0.17	0.00	0.17
1.80	0.09	0.00	0.09	4.40	0.17	0.00	0.17
1.85	0.09	0.00	0.09	4.45	0.17	0.00	0.17
1.90	0.09	0.00	0.09	4.50	0.17	0.00	0.17
1.95	0.10	0.00	0.10	4.55	0.18	0.00	0.18
2.00	0.10	0.00	0.10	4.60	0.18	0.00	0.18
2.05	0.10	0.00	0.10	4.65	0.18	0.00	0.18
2.10	0.10	0.00	0.10	4.70	0.18	0.00	0.18
2.15	0.10	0.00	0.10	4.75	0.18	0.00	0.18
2.20	0.11	0.00	0.11	4.80	0.18	0.00	0.18
2.25	0.11	0.00	0.11	4.85	0.18	0.00	0.18
2.30	0.11	0.00	0.11	4.90	0.18	0.00	0.18
2.35	0.11	0.00	0.11	4.95	0.19	0.00	0.19
2.40	0.11	0.00	0.11	5.00	0.19	0.00	0.19
2.45	0.12	0.00	0.12	5.05	0.19	0.00	0.19
2.50	0.12	0.00	0.12	5.10	0.19	0.00	0.19
2.55	0.12	0.00	0.12	5.15	0.19	0.00	0.19

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.19	0.00	0.19	7.80	0.33	0.00	0.33
5.25	0.19	0.00	0.19	7.85	0.33	0.00	0.33
5.30	0.19	0.00	0.19	7.90	0.33	0.00	0.33
5.35	0.20	0.00	0.20	7.95	0.34	0.00	0.34
5.40	0.20	0.00	0.20	8.00	0.34	0.00	0.34
5.45	0.20	0.00	0.20	8.05	0.34	0.00	0.34
5.50	0.20	0.00	0.20	8.10	0.35	0.00	0.35
5.55	0.20	0.00	0.20	8.15	0.35	0.00	0.35
5.60	0.20	0.00	0.20	8.20	0.35	0.00	0.35
5.65	0.20	0.00	0.20	8.25	0.36	0.00	0.36
5.70	0.20	0.00	0.20	8.30	0.36	0.00	0.36
5.75	0.20	0.00	0.20	8.35	0.36	0.00	0.36
5.80	0.21	0.00	0.21	8.40	0.37	0.00	0.37
5.85	0.21	0.00	0.21	8.45	0.37	0.00	0.37
5.90	0.21	0.00	0.21	8.50	0.37	0.00	0.37
5.95	0.21	0.00	0.21	8.55	0.38	0.00	0.38
6.00	0.21	0.00	0.21	8.60	0.38	0.00	0.38
6.05	0.21	0.00	0.21	8.65	0.38	0.00	0.38
6.10	0.22	0.00	0.22	8.70	0.39	0.00	0.39
6.15	0.22	0.00	0.22	8.75	0.39	0.00	0.39
6.20	0.22	0.00	0.22	8.80	0.39	0.00	0.39
6.25	0.23	0.00	0.23	8.85	0.40	0.00	0.40
6.30	0.23	0.00	0.23	8.90	0.40	0.00	0.40
6.35	0.23	0.00	0.23	8.95	0.40	0.00	0.40
6.40	0.23	0.00	0.23	9.00	0.41	0.00	0.41
6.45	0.24	0.00	0.24	9.05	0.42	0.00	0.42
6.50	0.24	0.00	0.24	9.10	0.43	0.00	0.43
6.55	0.24	0.00	0.24	9.15	0.44	0.00	0.44
6.60	0.25	0.00	0.25	9.20	0.45	0.00	0.45
6.65	0.25	0.00	0.25	9.25	0.46	0.00	0.46
6.70	0.25	0.00	0.25	9.30	0.47	0.00	0.47
6.75	0.26	0.00	0.26	9.35	0.49	0.00	0.49
6.80	0.26	0.00	0.26	9.40	0.50	0.00	0.50
6.85	0.26	0.00	0.26	9.45	0.51	0.00	0.51
6.90	0.27	0.00	0.27	9.50	0.52	0.00	0.52
6.95	0.27	0.00	0.27	9.55	0.53	0.00	0.53
7.00	0.27	0.00	0.27	9.60	0.54	0.00	0.54
7.05	0.28	0.00	0.28	9.65	0.56	0.00	0.56
7.10	0.28	0.00	0.28	9.70	0.57	0.00	0.57
7.15	0.28	0.00	0.28	9.75	0.58	0.00	0.58
7.20	0.29	0.00	0.29	9.80	0.59	0.00	0.59
7.25	0.29	0.00	0.29	9.85	0.60	0.00	0.60
7.30	0.29	0.00	0.29	9.90	0.62	0.00	0.62
7.35	0.30	0.00	0.30	9.95	0.63	0.00	0.63
7.40	0.30	0.00	0.30	10.00	0.64	0.00	0.64
7.45	0.30	0.00	0.30	10.05	0.65	0.00	0.65
7.50	0.31	0.00	0.31	10.10	0.66	0.00	0.66
7.55	0.31	0.00	0.31	10.15	0.68	0.00	0.68
7.60	0.31	0.00	0.31	10.20	0.69	0.00	0.69
7.65	0.32	0.00	0.32	10.25	0.70	0.00	0.70
7.70	0.32	0.00	0.32	10.30	0.71	0.00	0.71
7.75	0.32	0.00	0.32	10.35	0.73	0.00	0.73

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.74	0.00	0.74	13.00	1.52	0.00	1.52
10.45	0.75	0.00	0.75	13.05	1.42	0.00	1.42
10.50	0.76	0.00	0.76	13.10	1.35	0.00	1.35
10.55	0.80	0.00	0.80	13.15	1.28	0.00	1.28
10.60	0.83	0.00	0.83	13.20	1.23	0.00	1.23
10.65	0.88	0.00	0.88	13.25	1.18	0.00	1.18
10.70	0.92	0.00	0.92	13.30	1.13	0.00	1.13
10.75	0.97	0.00	0.97	13.35	1.08	0.00	1.08
10.80	1.01	0.00	1.01	13.40	1.04	0.00	1.04
10.85	1.06	0.00	1.06	13.45	0.99	0.00	0.99
10.90	1.10	0.00	1.10	13.50	0.95	0.00	0.95
10.95	1.15	0.00	1.15	13.55	0.90	0.00	0.90
11.00	1.19	0.00	1.19	13.60	0.85	0.00	0.85
11.05	1.27	0.00	1.27	13.65	0.83	0.00	0.83
11.10	1.34	0.00	1.34	13.70	0.81	0.00	0.81
11.15	1.44	0.00	1.44	13.75	0.79	0.00	0.79
11.20	1.51	0.00	1.51	13.80	0.78	0.00	0.78
11.25	1.61	0.00	1.61	13.85	0.77	0.00	0.77
11.30	1.68	0.00	1.68	13.90	0.76	0.00	0.76
11.35	1.78	0.00	1.78	13.95	0.75	0.00	0.75
11.40	1.86	0.00	1.86	14.00	0.73	0.00	0.73
11.45	1.94	0.00	1.94	14.05	0.72	0.00	0.72
11.50	2.00	0.00	2.00	14.10	0.71	0.00	0.71
11.55	2.44	0.00	2.44	14.15	0.70	0.00	0.70
11.60	2.87	0.00	2.87	14.20	0.69	0.00	0.69
11.65	3.12	0.00	3.12	14.25	0.67	0.00	0.67
11.70	3.27	0.00	3.27	14.30	0.66	0.00	0.66
11.75	3.79	0.00	3.79	14.35	0.65	0.00	0.65
11.80	4.27	0.00	4.27	14.40	0.64	0.00	0.64
11.85	5.15	0.00	5.15	14.45	0.62	0.00	0.62
11.90	5.91	0.00	5.91	14.50	0.61	0.00	0.61
11.95	7.95	0.00	7.95	14.55	0.60	0.00	0.60
12.00	9.85	0.00	9.85	14.60	0.59	0.00	0.59
12.05	13.42	0.00	13.42	14.65	0.57	0.00	0.57
12.10	**16.59**	0.00	**16.59**	14.70	0.56	0.00	0.56
12.15	**13.51**	0.00	**13.51**	14.75	0.55	0.00	0.55
12.20	9.60	0.00	9.60	14.80	0.54	0.00	0.54
12.25	7.17	0.00	7.17	14.85	0.53	0.00	0.53
12.30	5.68	0.00	5.68	14.90	0.51	0.00	0.51
12.35	4.62	0.00	4.62	14.95	0.50	0.00	0.50
12.40	3.91	0.00	3.91	15.00	0.49	0.00	0.49
12.45	3.56	0.00	3.56	15.05	0.48	0.00	0.48
12.50	3.39	0.00	3.39	15.10	0.47	0.00	0.47
12.55	2.90	0.00	2.90	15.15	0.46	0.00	0.46
12.60	2.45	0.00	2.45	15.20	0.45	0.00	0.45
12.65	2.20	0.00	2.20	15.25	0.45	0.00	0.45
12.70	2.07	0.00	2.07	15.30	0.45	0.00	0.45
12.75	1.95	0.00	1.95	15.35	0.44	0.00	0.44
12.80	1.87	0.00	1.87	15.40	0.44	0.00	0.44
12.85	1.77	0.00	1.77	15.45	0.44	0.00	0.44
12.90	1.70	0.00	1.70	15.50	0.43	0.00	0.43
12.95	1.60	0.00	1.60	15.55	0.43	0.00	0.43

Hydrograph for Link E1A: E1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.43	0.00	0.43	18.20	0.26	0.00	0.26
15.65	0.42	0.00	0.42	18.25	0.26	0.00	0.26
15.70	0.42	0.00	0.42	18.30	0.26	0.00	0.26
15.75	0.42	0.00	0.42	18.35	0.26	0.00	0.26
15.80	0.41	0.00	0.41	18.40	0.26	0.00	0.26
15.85	0.41	0.00	0.41	18.45	0.26	0.00	0.26
15.90	0.41	0.00	0.41	18.50	0.26	0.00	0.26
15.95	0.40	0.00	0.40	18.55	0.26	0.00	0.26
16.00	0.40	0.00	0.40	18.60	0.26	0.00	0.26
16.05	0.40	0.00	0.40	18.65	0.25	0.00	0.25
16.10	0.40	0.00	0.40	18.70	0.25	0.00	0.25
16.15	0.39	0.00	0.39	18.75	0.25	0.00	0.25
16.20	0.39	0.00	0.39	18.80	0.25	0.00	0.25
16.25	0.38	0.00	0.38	18.85	0.25	0.00	0.25
16.30	0.38	0.00	0.38	18.90	0.25	0.00	0.25
16.35	0.38	0.00	0.38	18.95	0.25	0.00	0.25
16.40	0.38	0.00	0.38	19.00	0.25	0.00	0.25
16.45	0.37	0.00	0.37	19.05	0.25	0.00	0.25
16.50	0.37	0.00	0.37	19.10	0.25	0.00	0.25
16.55	0.37	0.00	0.37	19.15	0.25	0.00	0.25
16.60	0.36	0.00	0.36	19.20	0.25	0.00	0.25
16.65	0.36	0.00	0.36	19.25	0.24	0.00	0.24
16.70	0.36	0.00	0.36	19.30	0.24	0.00	0.24
16.75	0.35	0.00	0.35	19.35	0.24	0.00	0.24
16.80	0.35	0.00	0.35	19.40	0.24	0.00	0.24
16.85	0.35	0.00	0.35	19.45	0.24	0.00	0.24
16.90	0.34	0.00	0.34	19.50	0.24	0.00	0.24
16.95	0.34	0.00	0.34	19.55	0.24	0.00	0.24
17.00	0.34	0.00	0.34	19.60	0.24	0.00	0.24
17.05	0.33	0.00	0.33	19.65	0.24	0.00	0.24
17.10	0.33	0.00	0.33	19.70	0.24	0.00	0.24
17.15	0.33	0.00	0.33	19.75	0.24	0.00	0.24
17.20	0.32	0.00	0.32	19.80	0.24	0.00	0.24
17.25	0.32	0.00	0.32	19.85	0.24	0.00	0.24
17.30	0.32	0.00	0.32	19.90	0.23	0.00	0.23
17.35	0.31	0.00	0.31	19.95	0.23	0.00	0.23
17.40	0.31	0.00	0.31	20.00	0.23	0.00	0.23
17.45	0.31	0.00	0.31	20.05	0.23	0.00	0.23
17.50	0.30	0.00	0.30	20.10	0.23	0.00	0.23
17.55	0.30	0.00	0.30	20.15	0.23	0.00	0.23
17.60	0.30	0.00	0.30	20.20	0.23	0.00	0.23
17.65	0.29	0.00	0.29	20.25	0.23	0.00	0.23
17.70	0.29	0.00	0.29	20.30	0.23	0.00	0.23
17.75	0.29	0.00	0.29	20.35	0.23	0.00	0.23
17.80	0.28	0.00	0.28	20.40	0.23	0.00	0.23
17.85	0.28	0.00	0.28	20.45	0.23	0.00	0.23
17.90	0.28	0.00	0.28	20.50	0.22	0.00	0.22
17.95	0.27	0.00	0.27	20.55	0.22	0.00	0.22
18.00	0.27	0.00	0.27	20.60	0.22	0.00	0.22
18.05	0.27	0.00	0.27	20.65	0.22	0.00	0.22
18.10	0.27	0.00	0.27	20.70	0.22	0.00	0.22
18.15	0.26	0.00	0.26	20.75	0.22	0.00	0.22

Hydrograph for Link E1A: E1A (continued)

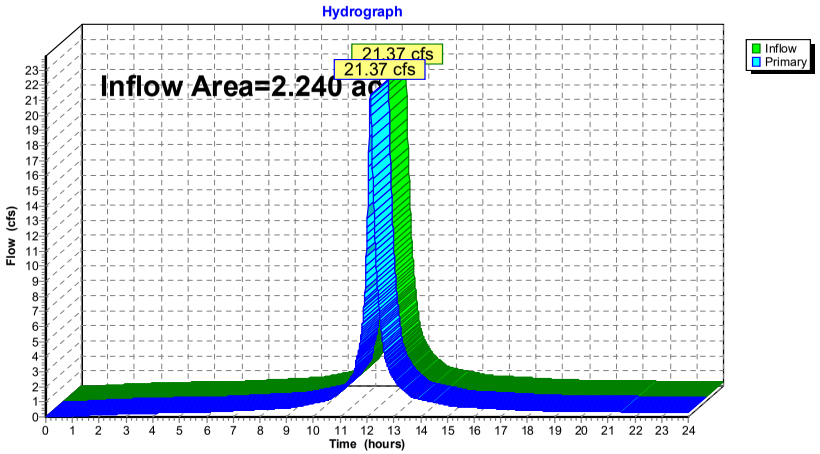
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.22	0.00	0.22	23.40	0.18	0.00	0.18
20.85	0.22	0.00	0.22	23.45	0.18	0.00	0.18
20.90	0.22	0.00	0.22	23.50	0.18	0.00	0.18
20.95	0.22	0.00	0.22	23.55	0.17	0.00	0.17
21.00	0.22	0.00	0.22	23.60	0.17	0.00	0.17
21.05	0.22	0.00	0.22	23.65	0.17	0.00	0.17
21.10	0.21	0.00	0.21	23.70	0.17	0.00	0.17
21.15	0.21	0.00	0.21	23.75	0.17	0.00	0.17
21.20	0.21	0.00	0.21	23.80	0.17	0.00	0.17
21.25	0.21	0.00	0.21	23.85	0.17	0.00	0.17
21.30	0.21	0.00	0.21	23.90	0.17	0.00	0.17
21.35	0.21	0.00	0.21	23.95	0.18	0.00	0.18
21.40	0.21	0.00	0.21	24.00	0.20	0.00	0.20
21.45	0.21	0.00	0.21				
21.50	0.21	0.00	0.21				
21.55	0.21	0.00	0.21				
21.60	0.21	0.00	0.21				
21.65	0.21	0.00	0.21				
21.70	0.20	0.00	0.20				
21.75	0.20	0.00	0.20				
21.80	0.20	0.00	0.20				
21.85	0.20	0.00	0.20				
21.90	0.20	0.00	0.20				
21.95	0.20	0.00	0.20				
22.00	0.20	0.00	0.20				
22.05	0.20	0.00	0.20				
22.10	0.20	0.00	0.20				
22.15	0.20	0.00	0.20				
22.20	0.20	0.00	0.20				
22.25	0.20	0.00	0.20				
22.30	0.20	0.00	0.20				
22.35	0.19	0.00	0.19				
22.40	0.19	0.00	0.19				
22.45	0.19	0.00	0.19				
22.50	0.19	0.00	0.19				
22.55	0.19	0.00	0.19				
22.60	0.19	0.00	0.19				
22.65	0.19	0.00	0.19				
22.70	0.19	0.00	0.19				
22.75	0.19	0.00	0.19				
22.80	0.19	0.00	0.19				
22.85	0.19	0.00	0.19				
22.90	0.19	0.00	0.19				
22.95	0.19	0.00	0.19				
23.00	0.18	0.00	0.18				
23.05	0.18	0.00	0.18				
23.10	0.18	0.00	0.18				
23.15	0.18	0.00	0.18				
23.20	0.18	0.00	0.18				
23.25	0.18	0.00	0.18				
23.30	0.18	0.00	0.18				
23.35	0.18	0.00	0.18				

Summary for Link E1B: E1B

Inflow Area = 2.240 ac, 27.23% Impervious, Inflow Depth > 10.35" for 100YR PROJECTED event
Inflow = 21.37 cfs @ 12.12 hrs, Volume= 1.932 af
Primary = 21.37 cfs @ 12.12 hrs, Volume= 1.932 af, Atten= 0%, Lag= 0.0 min
Routed to Link EPOI-1 : EPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link E1B: E1B



Hydrograph for Link E1B: E1B

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.18	0.00	0.18
0.05	0.00	0.00	0.00	2.65	0.18	0.00	0.18
0.10	0.00	0.00	0.00	2.70	0.19	0.00	0.19
0.15	0.00	0.00	0.00	2.75	0.19	0.00	0.19
0.20	0.00	0.00	0.00	2.80	0.19	0.00	0.19
0.25	0.00	0.00	0.00	2.85	0.20	0.00	0.20
0.30	0.00	0.00	0.00	2.90	0.20	0.00	0.20
0.35	0.00	0.00	0.00	2.95	0.20	0.00	0.20
0.40	0.00	0.00	0.00	3.00	0.20	0.00	0.20
0.45	0.00	0.00	0.00	3.05	0.21	0.00	0.21
0.50	0.01	0.00	0.01	3.10	0.21	0.00	0.21
0.55	0.01	0.00	0.01	3.15	0.21	0.00	0.21
0.60	0.01	0.00	0.01	3.20	0.21	0.00	0.21
0.65	0.01	0.00	0.01	3.25	0.22	0.00	0.22
0.70	0.01	0.00	0.01	3.30	0.22	0.00	0.22
0.75	0.02	0.00	0.02	3.35	0.22	0.00	0.22
0.80	0.02	0.00	0.02	3.40	0.22	0.00	0.22
0.85	0.03	0.00	0.03	3.45	0.23	0.00	0.23
0.90	0.03	0.00	0.03	3.50	0.23	0.00	0.23
0.95	0.04	0.00	0.04	3.55	0.23	0.00	0.23
1.00	0.04	0.00	0.04	3.60	0.23	0.00	0.23
1.05	0.05	0.00	0.05	3.65	0.24	0.00	0.24
1.10	0.06	0.00	0.06	3.70	0.24	0.00	0.24
1.15	0.06	0.00	0.06	3.75	0.24	0.00	0.24
1.20	0.07	0.00	0.07	3.80	0.24	0.00	0.24
1.25	0.07	0.00	0.07	3.85	0.24	0.00	0.24
1.30	0.08	0.00	0.08	3.90	0.25	0.00	0.25
1.35	0.08	0.00	0.08	3.95	0.25	0.00	0.25
1.40	0.09	0.00	0.09	4.00	0.25	0.00	0.25
1.45	0.09	0.00	0.09	4.05	0.25	0.00	0.25
1.50	0.10	0.00	0.10	4.10	0.25	0.00	0.25
1.55	0.10	0.00	0.10	4.15	0.26	0.00	0.26
1.60	0.11	0.00	0.11	4.20	0.26	0.00	0.26
1.65	0.11	0.00	0.11	4.25	0.26	0.00	0.26
1.70	0.12	0.00	0.12	4.30	0.26	0.00	0.26
1.75	0.12	0.00	0.12	4.35	0.26	0.00	0.26
1.80	0.13	0.00	0.13	4.40	0.27	0.00	0.27
1.85	0.13	0.00	0.13	4.45	0.27	0.00	0.27
1.90	0.13	0.00	0.13	4.50	0.27	0.00	0.27
1.95	0.14	0.00	0.14	4.55	0.27	0.00	0.27
2.00	0.14	0.00	0.14	4.60	0.27	0.00	0.27
2.05	0.14	0.00	0.14	4.65	0.27	0.00	0.27
2.10	0.15	0.00	0.15	4.70	0.28	0.00	0.28
2.15	0.15	0.00	0.15	4.75	0.28	0.00	0.28
2.20	0.16	0.00	0.16	4.80	0.28	0.00	0.28
2.25	0.16	0.00	0.16	4.85	0.28	0.00	0.28
2.30	0.16	0.00	0.16	4.90	0.28	0.00	0.28
2.35	0.17	0.00	0.17	4.95	0.29	0.00	0.29
2.40	0.17	0.00	0.17	5.00	0.29	0.00	0.29
2.45	0.17	0.00	0.17	5.05	0.29	0.00	0.29
2.50	0.18	0.00	0.18	5.10	0.29	0.00	0.29
2.55	0.18	0.00	0.18	5.15	0.29	0.00	0.29

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.29	0.00	0.29	7.80	0.48	0.00	0.48
5.25	0.30	0.00	0.30	7.85	0.48	0.00	0.48
5.30	0.30	0.00	0.30	7.90	0.49	0.00	0.49
5.35	0.30	0.00	0.30	7.95	0.49	0.00	0.49
5.40	0.30	0.00	0.30	8.00	0.50	0.00	0.50
5.45	0.30	0.00	0.30	8.05	0.50	0.00	0.50
5.50	0.30	0.00	0.30	8.10	0.51	0.00	0.51
5.55	0.31	0.00	0.31	8.15	0.51	0.00	0.51
5.60	0.31	0.00	0.31	8.20	0.52	0.00	0.52
5.65	0.31	0.00	0.31	8.25	0.52	0.00	0.52
5.70	0.31	0.00	0.31	8.30	0.53	0.00	0.53
5.75	0.31	0.00	0.31	8.35	0.53	0.00	0.53
5.80	0.31	0.00	0.31	8.40	0.53	0.00	0.53
5.85	0.32	0.00	0.32	8.45	0.54	0.00	0.54
5.90	0.32	0.00	0.32	8.50	0.55	0.00	0.55
5.95	0.32	0.00	0.32	8.55	0.55	0.00	0.55
6.00	0.32	0.00	0.32	8.60	0.55	0.00	0.55
6.05	0.32	0.00	0.32	8.65	0.56	0.00	0.56
6.10	0.33	0.00	0.33	8.70	0.56	0.00	0.56
6.15	0.33	0.00	0.33	8.75	0.57	0.00	0.57
6.20	0.33	0.00	0.33	8.80	0.57	0.00	0.57
6.25	0.34	0.00	0.34	8.85	0.58	0.00	0.58
6.30	0.34	0.00	0.34	8.90	0.58	0.00	0.58
6.35	0.35	0.00	0.35	8.95	0.59	0.00	0.59
6.40	0.35	0.00	0.35	9.00	0.59	0.00	0.59
6.45	0.36	0.00	0.36	9.05	0.60	0.00	0.60
6.50	0.36	0.00	0.36	9.10	0.61	0.00	0.61
6.55	0.36	0.00	0.36	9.15	0.62	0.00	0.62
6.60	0.37	0.00	0.37	9.20	0.64	0.00	0.64
6.65	0.37	0.00	0.37	9.25	0.65	0.00	0.65
6.70	0.38	0.00	0.38	9.30	0.67	0.00	0.67
6.75	0.38	0.00	0.38	9.35	0.69	0.00	0.69
6.80	0.39	0.00	0.39	9.40	0.70	0.00	0.70
6.85	0.39	0.00	0.39	9.45	0.72	0.00	0.72
6.90	0.40	0.00	0.40	9.50	0.74	0.00	0.74
6.95	0.40	0.00	0.40	9.55	0.75	0.00	0.75
7.00	0.41	0.00	0.41	9.60	0.77	0.00	0.77
7.05	0.41	0.00	0.41	9.65	0.79	0.00	0.79
7.10	0.42	0.00	0.42	9.70	0.81	0.00	0.81
7.15	0.42	0.00	0.42	9.75	0.82	0.00	0.82
7.20	0.42	0.00	0.42	9.80	0.84	0.00	0.84
7.25	0.43	0.00	0.43	9.85	0.86	0.00	0.86
7.30	0.43	0.00	0.43	9.90	0.88	0.00	0.88
7.35	0.44	0.00	0.44	9.95	0.90	0.00	0.90
7.40	0.44	0.00	0.44	10.00	0.91	0.00	0.91
7.45	0.45	0.00	0.45	10.05	0.93	0.00	0.93
7.50	0.45	0.00	0.45	10.10	0.95	0.00	0.95
7.55	0.46	0.00	0.46	10.15	0.97	0.00	0.97
7.60	0.46	0.00	0.46	10.20	0.99	0.00	0.99
7.65	0.47	0.00	0.47	10.25	1.00	0.00	1.00
7.70	0.47	0.00	0.47	10.30	1.02	0.00	1.02
7.75	0.48	0.00	0.48	10.35	1.04	0.00	1.04

pre and post projected rainfall *NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"*
Prepared by Pennoni Associates, Inc Printed 3/31/2026
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Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	1.06	0.00	1.06	13.00	2.54	0.00	2.54
10.45	1.08	0.00	1.08	13.05	2.40	0.00	2.40
10.50	1.10	0.00	1.10	13.10	2.26	0.00	2.26
10.55	1.13	0.00	1.13	13.15	2.14	0.00	2.14
10.60	1.18	0.00	1.18	13.20	2.04	0.00	2.04
10.65	1.23	0.00	1.23	13.25	1.95	0.00	1.95
10.70	1.29	0.00	1.29	13.30	1.87	0.00	1.87
10.75	1.35	0.00	1.35	13.35	1.79	0.00	1.79
10.80	1.41	0.00	1.41	13.40	1.71	0.00	1.71
10.85	1.48	0.00	1.48	13.45	1.64	0.00	1.64
10.90	1.54	0.00	1.54	13.50	1.56	0.00	1.56
10.95	1.61	0.00	1.61	13.55	1.49	0.00	1.49
11.00	1.68	0.00	1.68	13.60	1.42	0.00	1.42
11.05	1.76	0.00	1.76	13.65	1.36	0.00	1.36
11.10	1.87	0.00	1.87	13.70	1.32	0.00	1.32
11.15	1.98	0.00	1.98	13.75	1.28	0.00	1.28
11.20	2.10	0.00	2.10	13.80	1.26	0.00	1.26
11.25	2.22	0.00	2.22	13.85	1.23	0.00	1.23
11.30	2.34	0.00	2.34	13.90	1.21	0.00	1.21
11.35	2.47	0.00	2.47	13.95	1.19	0.00	1.19
11.40	2.60	0.00	2.60	14.00	1.17	0.00	1.17
11.45	2.72	0.00	2.72	14.05	1.15	0.00	1.15
11.50	2.83	0.00	2.83	14.10	1.13	0.00	1.13
11.55	3.17	0.00	3.17	14.15	1.11	0.00	1.11
11.60	3.71	0.00	3.71	14.20	1.09	0.00	1.09
11.65	4.13	0.00	4.13	14.25	1.07	0.00	1.07
11.70	4.45	0.00	4.45	14.30	1.05	0.00	1.05
11.75	4.95	0.00	4.95	14.35	1.03	0.00	1.03
11.80	5.65	0.00	5.65	14.40	1.02	0.00	1.02
11.85	6.55	0.00	6.55	14.45	1.00	0.00	1.00
11.90	7.66	0.00	7.66	14.50	0.98	0.00	0.98
11.95	9.52	0.00	9.52	14.55	0.96	0.00	0.96
12.00	12.12	0.00	12.12	14.60	0.94	0.00	0.94
12.05	15.68	0.00	15.68	14.65	0.92	0.00	0.92
12.10	**20.29**	0.00	**20.29**	14.70	0.90	0.00	0.90
12.15	**20.60**	0.00	**20.60**	14.75	0.88	0.00	0.88
12.20	17.07	0.00	17.07	14.80	0.86	0.00	0.86
12.25	14.12	0.00	14.12	14.85	0.85	0.00	0.85
12.30	11.77	0.00	11.77	14.90	0.83	0.00	0.83
12.35	9.92	0.00	9.92	14.95	0.81	0.00	0.81
12.40	8.31	0.00	8.31	15.00	0.79	0.00	0.79
12.45	7.17	0.00	7.17	15.05	0.77	0.00	0.77
12.50	6.37	0.00	6.37	15.10	0.75	0.00	0.75
12.55	5.58	0.00	5.58	15.15	0.74	0.00	0.74
12.60	4.75	0.00	4.75	15.20	0.72	0.00	0.72
12.65	4.16	0.00	4.16	15.25	0.72	0.00	0.72
12.70	3.75	0.00	3.75	15.30	0.71	0.00	0.71
12.75	3.45	0.00	3.45	15.35	0.70	0.00	0.70
12.80	3.20	0.00	3.20	15.40	0.70	0.00	0.70
12.85	3.01	0.00	3.01	15.45	0.69	0.00	0.69
12.90	2.84	0.00	2.84	15.50	0.68	0.00	0.68
12.95	2.68	0.00	2.68	15.55	0.68	0.00	0.68

Hydrograph for Link E1B: E1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.67	0.00	0.67	18.20	0.41	0.00	0.41
15.65	0.67	0.00	0.67	18.25	0.41	0.00	0.41
15.70	0.66	0.00	0.66	18.30	0.41	0.00	0.41
15.75	0.66	0.00	0.66	18.35	0.41	0.00	0.41
15.80	0.65	0.00	0.65	18.40	0.41	0.00	0.41
15.85	0.65	0.00	0.65	18.45	0.41	0.00	0.41
15.90	0.64	0.00	0.64	18.50	0.40	0.00	0.40
15.95	0.64	0.00	0.64	18.55	0.40	0.00	0.40
16.00	0.63	0.00	0.63	18.60	0.40	0.00	0.40
16.05	0.63	0.00	0.63	18.65	0.40	0.00	0.40
16.10	0.62	0.00	0.62	18.70	0.40	0.00	0.40
16.15	0.62	0.00	0.62	18.75	0.40	0.00	0.40
16.20	0.61	0.00	0.61	18.80	0.40	0.00	0.40
16.25	0.61	0.00	0.61	18.85	0.40	0.00	0.40
16.30	0.60	0.00	0.60	18.90	0.39	0.00	0.39
16.35	0.60	0.00	0.60	18.95	0.39	0.00	0.39
16.40	0.59	0.00	0.59	19.00	0.39	0.00	0.39
16.45	0.59	0.00	0.59	19.05	0.39	0.00	0.39
16.50	0.58	0.00	0.58	19.10	0.39	0.00	0.39
16.55	0.58	0.00	0.58	19.15	0.39	0.00	0.39
16.60	0.57	0.00	0.57	19.20	0.39	0.00	0.39
16.65	0.57	0.00	0.57	19.25	0.39	0.00	0.39
16.70	0.56	0.00	0.56	19.30	0.38	0.00	0.38
16.75	0.56	0.00	0.56	19.35	0.38	0.00	0.38
16.80	0.55	0.00	0.55	19.40	0.38	0.00	0.38
16.85	0.55	0.00	0.55	19.45	0.38	0.00	0.38
16.90	0.54	0.00	0.54	19.50	0.38	0.00	0.38
16.95	0.54	0.00	0.54	19.55	0.38	0.00	0.38
17.00	0.53	0.00	0.53	19.60	0.38	0.00	0.38
17.05	0.53	0.00	0.53	19.65	0.38	0.00	0.38
17.10	0.52	0.00	0.52	19.70	0.37	0.00	0.37
17.15	0.52	0.00	0.52	19.75	0.37	0.00	0.37
17.20	0.51	0.00	0.51	19.80	0.37	0.00	0.37
17.25	0.51	0.00	0.51	19.85	0.37	0.00	0.37
17.30	0.50	0.00	0.50	19.90	0.37	0.00	0.37
17.35	0.50	0.00	0.50	19.95	0.37	0.00	0.37
17.40	0.49	0.00	0.49	20.00	0.37	0.00	0.37
17.45	0.49	0.00	0.49	20.05	0.37	0.00	0.37
17.50	0.48	0.00	0.48	20.10	0.36	0.00	0.36
17.55	0.48	0.00	0.48	20.15	0.36	0.00	0.36
17.60	0.47	0.00	0.47	20.20	0.36	0.00	0.36
17.65	0.47	0.00	0.47	20.25	0.36	0.00	0.36
17.70	0.46	0.00	0.46	20.30	0.36	0.00	0.36
17.75	0.46	0.00	0.46	20.35	0.36	0.00	0.36
17.80	0.45	0.00	0.45	20.40	0.36	0.00	0.36
17.85	0.45	0.00	0.45	20.45	0.36	0.00	0.36
17.90	0.44	0.00	0.44	20.50	0.35	0.00	0.35
17.95	0.44	0.00	0.44	20.55	0.35	0.00	0.35
18.00	0.43	0.00	0.43	20.60	0.35	0.00	0.35
18.05	0.43	0.00	0.43	20.65	0.35	0.00	0.35
18.10	0.42	0.00	0.42	20.70	0.35	0.00	0.35
18.15	0.42	0.00	0.42	20.75	0.35	0.00	0.35

Hydrograph for Link E1B: E1B (continued)

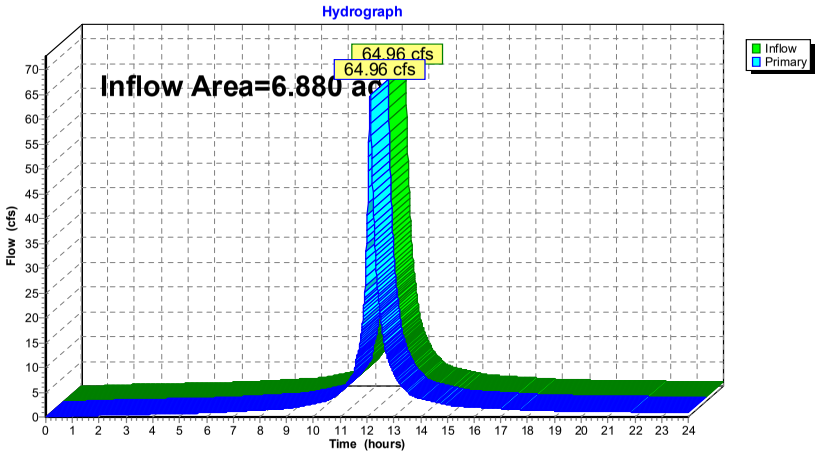
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.35	0.00	0.35	23.40	0.28	0.00	0.28
20.85	0.35	0.00	0.35	23.45	0.28	0.00	0.28
20.90	0.34	0.00	0.34	23.50	0.28	0.00	0.28
20.95	0.34	0.00	0.34	23.55	0.28	0.00	0.28
21.00	0.34	0.00	0.34	23.60	0.28	0.00	0.28
21.05	0.34	0.00	0.34	23.65	0.27	0.00	0.27
21.10	0.34	0.00	0.34	23.70	0.27	0.00	0.27
21.15	0.34	0.00	0.34	23.75	0.27	0.00	0.27
21.20	0.34	0.00	0.34	23.80	0.27	0.00	0.27
21.25	0.34	0.00	0.34	23.85	0.27	0.00	0.27
21.30	0.33	0.00	0.33	23.90	0.27	0.00	0.27
21.35	0.33	0.00	0.33	23.95	0.28	0.00	0.28
21.40	0.33	0.00	0.33	24.00	0.29	0.00	0.29
21.45	0.33	0.00	0.33				
21.50	0.33	0.00	0.33				
21.55	0.33	0.00	0.33				
21.60	0.33	0.00	0.33				
21.65	0.32	0.00	0.32				
21.70	0.32	0.00	0.32				
21.75	0.32	0.00	0.32				
21.80	0.32	0.00	0.32				
21.85	0.32	0.00	0.32				
21.90	0.32	0.00	0.32				
21.95	0.32	0.00	0.32				
22.00	0.32	0.00	0.32				
22.05	0.31	0.00	0.31				
22.10	0.31	0.00	0.31				
22.15	0.31	0.00	0.31				
22.20	0.31	0.00	0.31				
22.25	0.31	0.00	0.31				
22.30	0.31	0.00	0.31				
22.35	0.31	0.00	0.31				
22.40	0.31	0.00	0.31				
22.45	0.30	0.00	0.30				
22.50	0.30	0.00	0.30				
22.55	0.30	0.00	0.30				
22.60	0.30	0.00	0.30				
22.65	0.30	0.00	0.30				
22.70	0.30	0.00	0.30				
22.75	0.30	0.00	0.30				
22.80	0.30	0.00	0.30				
22.85	0.29	0.00	0.29				
22.90	0.29	0.00	0.29				
22.95	0.29	0.00	0.29				
23.00	0.29	0.00	0.29				
23.05	0.29	0.00	0.29				
23.10	0.29	0.00	0.29				
23.15	0.29	0.00	0.29				
23.20	0.29	0.00	0.29				
23.25	0.28	0.00	0.28				
23.30	0.28	0.00	0.28				
23.35	0.28	0.00	0.28				

Summary for Link EPOI-1: EPOI-1

Inflow Area = 6.880 ac, 33.14% Impervious, Inflow Depth > 10.29" for 100YR PROJECTED event
Inflow = 64.96 cfs @ 12.12 hrs, Volume= 5.901 af
Primary = 64.96 cfs @ 12.12 hrs, Volume= 5.901 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link EPOI-1: EPOI-1



Hydrograph for Link EPOI-1: EPOI-1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.42	0.00	0.42
0.05	0.00	0.00	0.00	2.65	0.43	0.00	0.43
0.10	0.00	0.00	0.00	2.70	0.43	0.00	0.43
0.15	0.00	0.00	0.00	2.75	0.44	0.00	0.44
0.20	0.00	0.00	0.00	2.80	0.45	0.00	0.45
0.25	0.00	0.00	0.00	2.85	0.45	0.00	0.45
0.30	0.00	0.00	0.00	2.90	0.46	0.00	0.46
0.35	0.00	0.00	0.00	2.95	0.46	0.00	0.46
0.40	0.00	0.00	0.00	3.00	0.47	0.00	0.47
0.45	0.01	0.00	0.01	3.05	0.47	0.00	0.47
0.50	0.02	0.00	0.02	3.10	0.48	0.00	0.48
0.55	0.02	0.00	0.02	3.15	0.48	0.00	0.48
0.60	0.03	0.00	0.03	3.20	0.49	0.00	0.49
0.65	0.05	0.00	0.05	3.25	0.49	0.00	0.49
0.70	0.06	0.00	0.06	3.30	0.49	0.00	0.49
0.75	0.07	0.00	0.07	3.35	0.50	0.00	0.50
0.80	0.08	0.00	0.08	3.40	0.50	0.00	0.50
0.85	0.10	0.00	0.10	3.45	0.51	0.00	0.51
0.90	0.11	0.00	0.11	3.50	0.52	0.00	0.52
0.95	0.13	0.00	0.13	3.55	0.52	0.00	0.52
1.00	0.14	0.00	0.14	3.60	0.52	0.00	0.52
1.05	0.15	0.00	0.15	3.65	0.53	0.00	0.53
1.10	0.17	0.00	0.17	3.70	0.53	0.00	0.53
1.15	0.18	0.00	0.18	3.75	0.54	0.00	0.54
1.20	0.19	0.00	0.19	3.80	0.55	0.00	0.55
1.25	0.20	0.00	0.20	3.85	0.55	0.00	0.55
1.30	0.21	0.00	0.21	3.90	0.56	0.00	0.56
1.35	0.22	0.00	0.22	3.95	0.56	0.00	0.56
1.40	0.24	0.00	0.24	4.00	0.57	0.00	0.57
1.45	0.25	0.00	0.25	4.05	0.58	0.00	0.58
1.50	0.26	0.00	0.26	4.10	0.58	0.00	0.58
1.55	0.27	0.00	0.27	4.15	0.59	0.00	0.59
1.60	0.28	0.00	0.28	4.20	0.60	0.00	0.60
1.65	0.28	0.00	0.28	4.25	0.60	0.00	0.60
1.70	0.29	0.00	0.29	4.30	0.61	0.00	0.61
1.75	0.30	0.00	0.30	4.35	0.62	0.00	0.62
1.80	0.31	0.00	0.31	4.40	0.62	0.00	0.62
1.85	0.32	0.00	0.32	4.45	0.63	0.00	0.63
1.90	0.33	0.00	0.33	4.50	0.63	0.00	0.63
1.95	0.34	0.00	0.34	4.55	0.64	0.00	0.64
2.00	0.34	0.00	0.34	4.60	0.65	0.00	0.65
2.05	0.35	0.00	0.35	4.65	0.65	0.00	0.65
2.10	0.36	0.00	0.36	4.70	0.66	0.00	0.66
2.15	0.36	0.00	0.36	4.75	0.67	0.00	0.67
2.20	0.37	0.00	0.37	4.80	0.67	0.00	0.67
2.25	0.38	0.00	0.38	4.85	0.68	0.00	0.68
2.30	0.39	0.00	0.39	4.90	0.68	0.00	0.68
2.35	0.39	0.00	0.39	4.95	0.69	0.00	0.69
2.40	0.40	0.00	0.40	5.00	0.70	0.00	0.70
2.45	0.40	0.00	0.40	5.05	0.70	0.00	0.70
2.50	0.41	0.00	0.41	5.10	0.71	0.00	0.71
2.55	0.42	0.00	0.42	5.15	0.72	0.00	0.72

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.72	0.00	0.72	7.80	1.32	0.00	1.32
5.25	0.73	0.00	0.73	7.85	1.34	0.00	1.34
5.30	0.73	0.00	0.73	7.90	1.36	0.00	1.36
5.35	0.74	0.00	0.74	7.95	1.37	0.00	1.37
5.40	0.75	0.00	0.75	8.00	1.39	0.00	1.39
5.45	0.75	0.00	0.75	8.05	1.40	0.00	1.40
5.50	0.76	0.00	0.76	8.10	1.42	0.00	1.42
5.55	0.76	0.00	0.76	8.15	1.44	0.00	1.44
5.60	0.77	0.00	0.77	8.20	1.45	0.00	1.45
5.65	0.78	0.00	0.78	8.25	1.47	0.00	1.47
5.70	0.78	0.00	0.78	8.30	1.48	0.00	1.48
5.75	0.79	0.00	0.79	8.35	1.50	0.00	1.50
5.80	0.79	0.00	0.79	8.40	1.51	0.00	1.51
5.85	0.80	0.00	0.80	8.45	1.53	0.00	1.53
5.90	0.81	0.00	0.81	8.50	1.55	0.00	1.55
5.95	0.81	0.00	0.81	8.55	1.56	0.00	1.56
6.00	0.82	0.00	0.82	8.60	1.58	0.00	1.58
6.05	0.83	0.00	0.83	8.65	1.60	0.00	1.60
6.10	0.84	0.00	0.84	8.70	1.61	0.00	1.61
6.15	0.85	0.00	0.85	8.75	1.63	0.00	1.63
6.20	0.86	0.00	0.86	8.80	1.64	0.00	1.64
6.25	0.87	0.00	0.87	8.85	1.66	0.00	1.66
6.30	0.89	0.00	0.89	8.90	1.67	0.00	1.67
6.35	0.90	0.00	0.90	8.95	1.69	0.00	1.69
6.40	0.91	0.00	0.91	9.00	1.71	0.00	1.71
6.45	0.93	0.00	0.93	9.05	1.74	0.00	1.74
6.50	0.94	0.00	0.94	9.10	1.78	0.00	1.78
6.55	0.96	0.00	0.96	9.15	1.82	0.00	1.82
6.60	0.97	0.00	0.97	9.20	1.86	0.00	1.86
6.65	0.98	0.00	0.98	9.25	1.91	0.00	1.91
6.70	1.00	0.00	1.00	9.30	1.96	0.00	1.96
6.75	1.01	0.00	1.01	9.35	2.01	0.00	2.01
6.80	1.02	0.00	1.02	9.40	2.06	0.00	2.06
6.85	1.04	0.00	1.04	9.45	2.11	0.00	2.11
6.90	1.05	0.00	1.05	9.50	2.16	0.00	2.16
6.95	1.07	0.00	1.07	9.55	2.22	0.00	2.22
7.00	1.08	0.00	1.08	9.60	2.27	0.00	2.27
7.05	1.10	0.00	1.10	9.65	2.32	0.00	2.32
7.10	1.11	0.00	1.11	9.70	2.38	0.00	2.38
7.15	1.13	0.00	1.13	9.75	2.43	0.00	2.43
7.20	1.14	0.00	1.14	9.80	2.48	0.00	2.48
7.25	1.16	0.00	1.16	9.85	2.54	0.00	2.54
7.30	1.17	0.00	1.17	9.90	2.60	0.00	2.60
7.35	1.19	0.00	1.19	9.95	2.65	0.00	2.65
7.40	1.20	0.00	1.20	10.00	2.71	0.00	2.71
7.45	1.22	0.00	1.22	10.05	2.76	0.00	2.76
7.50	1.23	0.00	1.23	10.10	2.82	0.00	2.82
7.55	1.25	0.00	1.25	10.15	2.88	0.00	2.88
7.60	1.26	0.00	1.26	10.20	2.93	0.00	2.93
7.65	1.28	0.00	1.28	10.25	2.99	0.00	2.99
7.70	1.30	0.00	1.30	10.30	3.05	0.00	3.05
7.75	1.31	0.00	1.31	10.35	3.11	0.00	3.11

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	3.16	0.00	3.16	13.00	8.84	0.00	8.84
10.45	3.22	0.00	3.22	13.05	8.27	0.00	8.27
10.50	3.28	0.00	3.28	13.10	7.74	0.00	7.74
10.55	3.40	0.00	3.40	13.15	7.29	0.00	7.29
10.60	3.54	0.00	3.54	13.20	6.91	0.00	6.91
10.65	3.71	0.00	3.71	13.25	6.56	0.00	6.56
10.70	3.88	0.00	3.88	13.30	6.25	0.00	6.25
10.75	4.07	0.00	4.07	13.35	5.95	0.00	5.95
10.80	4.26	0.00	4.26	13.40	5.67	0.00	5.67
10.85	4.46	0.00	4.46	13.45	5.40	0.00	5.40
10.90	4.65	0.00	4.65	13.50	5.14	0.00	5.14
10.95	4.86	0.00	4.86	13.55	4.88	0.00	4.88
11.00	5.06	0.00	5.06	13.60	4.63	0.00	4.63
11.05	5.35	0.00	5.35	13.65	4.45	0.00	4.45
11.10	5.65	0.00	5.65	13.70	4.29	0.00	4.29
11.15	6.00	0.00	6.00	13.75	4.17	0.00	4.17
11.20	6.35	0.00	6.35	13.80	4.07	0.00	4.07
11.25	6.73	0.00	6.73	13.85	3.97	0.00	3.97
11.30	7.09	0.00	7.09	13.90	3.89	0.00	3.89
11.35	7.49	0.00	7.49	13.95	3.81	0.00	3.81
11.40	7.87	0.00	7.87	14.00	3.74	0.00	3.74
11.45	8.24	0.00	8.24	14.05	3.66	0.00	3.66
11.50	8.58	0.00	8.58	14.10	3.59	0.00	3.59
11.55	9.87	0.00	9.87	14.15	3.53	0.00	3.53
11.60	11.47	0.00	11.47	14.20	3.46	0.00	3.46
11.65	12.64	0.00	12.64	14.25	3.40	0.00	3.40
11.70	13.52	0.00	13.52	14.30	3.34	0.00	3.34
11.75	15.28	0.00	15.28	14.35	3.27	0.00	3.27
11.80	17.31	0.00	17.31	14.40	3.21	0.00	3.21
11.85	20.31	0.00	20.31	14.45	3.15	0.00	3.15
11.90	23.52	0.00	23.52	14.50	3.09	0.00	3.09
11.95	30.05	0.00	30.05	14.55	3.03	0.00	3.03
12.00	37.58	0.00	37.58	14.60	2.97	0.00	2.97
12.05	49.54	0.00	49.54	14.65	2.90	0.00	2.90
12.10	**62.69**	0.00	**62.69**	14.70	2.85	0.00	2.85
12.15	**59.20**	0.00	**59.20**	14.75	2.79	0.00	2.79
12.20	48.50	0.00	48.50	14.80	2.73	0.00	2.73
12.25	40.55	0.00	40.55	14.85	2.67	0.00	2.67
12.30	34.37	0.00	34.37	14.90	2.61	0.00	2.61
12.35	29.40	0.00	29.40	14.95	2.55	0.00	2.55
12.40	25.38	0.00	25.38	15.00	2.49	0.00	2.49
12.45	22.67	0.00	22.67	15.05	2.43	0.00	2.43
12.50	20.80	0.00	20.80	15.10	2.37	0.00	2.37
12.55	18.44	0.00	18.44	15.15	2.33	0.00	2.33
12.60	16.07	0.00	16.07	15.20	2.29	0.00	2.29
12.65	14.43	0.00	14.43	15.25	2.26	0.00	2.26
12.70	13.22	0.00	13.22	15.30	2.24	0.00	2.24
12.75	12.22	0.00	12.22	15.35	2.22	0.00	2.22
12.80	11.41	0.00	11.41	15.40	2.20	0.00	2.20
12.85	10.68	0.00	10.68	15.45	2.18	0.00	2.18
12.90	10.03	0.00	10.03	15.50	2.16	0.00	2.16
12.95	9.41	0.00	9.41	15.55	2.14	0.00	2.14

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	2.12	0.00	2.12	18.20	1.30	0.00	1.30
15.65	2.10	0.00	2.10	18.25	1.29	0.00	1.29
15.70	2.08	0.00	2.08	18.30	1.29	0.00	1.29
15.75	2.07	0.00	2.07	18.35	1.28	0.00	1.28
15.80	2.05	0.00	2.05	18.40	1.28	0.00	1.28
15.85	2.03	0.00	2.03	18.45	1.27	0.00	1.27
15.90	2.02	0.00	2.02	18.50	1.27	0.00	1.27
15.95	2.00	0.00	2.00	18.55	1.26	0.00	1.26
16.00	1.99	0.00	1.99	18.60	1.26	0.00	1.26
16.05	1.97	0.00	1.97	18.65	1.25	0.00	1.25
16.10	1.96	0.00	1.96	18.70	1.25	0.00	1.25
16.15	1.94	0.00	1.94	18.75	1.24	0.00	1.24
16.20	1.93	0.00	1.93	18.80	1.24	0.00	1.24
16.25	1.91	0.00	1.91	18.85	1.24	0.00	1.24
16.30	1.89	0.00	1.89	18.90	1.23	0.00	1.23
16.35	1.87	0.00	1.87	18.95	1.23	0.00	1.23
16.40	1.86	0.00	1.86	19.00	1.22	0.00	1.22
16.45	1.84	0.00	1.84	19.05	1.22	0.00	1.22
16.50	1.83	0.00	1.83	19.10	1.22	0.00	1.22
16.55	1.81	0.00	1.81	19.15	1.21	0.00	1.21
16.60	1.80	0.00	1.80	19.20	1.21	0.00	1.21
16.65	1.78	0.00	1.78	19.25	1.20	0.00	1.20
16.70	1.77	0.00	1.77	19.30	1.20	0.00	1.20
16.75	1.75	0.00	1.75	19.35	1.20	0.00	1.20
16.80	1.73	0.00	1.73	19.40	1.19	0.00	1.19
16.85	1.72	0.00	1.72	19.45	1.19	0.00	1.19
16.90	1.70	0.00	1.70	19.50	1.18	0.00	1.18
16.95	1.69	0.00	1.69	19.55	1.18	0.00	1.18
17.00	1.67	0.00	1.67	19.60	1.18	0.00	1.18
17.05	1.66	0.00	1.66	19.65	1.17	0.00	1.17
17.10	1.64	0.00	1.64	19.70	1.17	0.00	1.17
17.15	1.62	0.00	1.62	19.75	1.17	0.00	1.17
17.20	1.61	0.00	1.61	19.80	1.16	0.00	1.16
17.25	1.59	0.00	1.59	19.85	1.16	0.00	1.16
17.30	1.57	0.00	1.57	19.90	1.15	0.00	1.15
17.35	1.56	0.00	1.56	19.95	1.15	0.00	1.15
17.40	1.54	0.00	1.54	20.00	1.15	0.00	1.15
17.45	1.53	0.00	1.53	20.05	1.14	0.00	1.14
17.50	1.51	0.00	1.51	20.10	1.14	0.00	1.14
17.55	1.50	0.00	1.50	20.15	1.13	0.00	1.13
17.60	1.48	0.00	1.48	20.20	1.13	0.00	1.13
17.65	1.47	0.00	1.47	20.25	1.12	0.00	1.12
17.70	1.45	0.00	1.45	20.30	1.12	0.00	1.12
17.75	1.43	0.00	1.43	20.35	1.12	0.00	1.12
17.80	1.42	0.00	1.42	20.40	1.11	0.00	1.11
17.85	1.40	0.00	1.40	20.45	1.11	0.00	1.11
17.90	1.39	0.00	1.39	20.50	1.10	0.00	1.10
17.95	1.37	0.00	1.37	20.55	1.10	0.00	1.10
18.00	1.35	0.00	1.35	20.60	1.10	0.00	1.10
18.05	1.34	0.00	1.34	20.65	1.10	0.00	1.10
18.10	1.32	0.00	1.32	20.70	1.09	0.00	1.09
18.15	1.31	0.00	1.31	20.75	1.09	0.00	1.09

Hydrograph for Link EPOI-1: EPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	1.08	0.00	1.08	23.40	0.88	0.00	0.88
20.85	1.08	0.00	1.08	23.45	0.87	0.00	0.87
20.90	1.07	0.00	1.07	23.50	0.87	0.00	0.87
20.95	1.07	0.00	1.07	23.55	0.86	0.00	0.86
21.00	1.07	0.00	1.07	23.60	0.86	0.00	0.86
21.05	1.06	0.00	1.06	23.65	0.86	0.00	0.86
21.10	1.06	0.00	1.06	23.70	0.85	0.00	0.85
21.15	1.05	0.00	1.05	23.75	0.85	0.00	0.85
21.20	1.05	0.00	1.05	23.80	0.84	0.00	0.84
21.25	1.05	0.00	1.05	23.85	0.84	0.00	0.84
21.30	1.05	0.00	1.05	23.90	0.84	0.00	0.84
21.35	1.04	0.00	1.04	23.95	0.87	0.00	0.87
21.40	1.04	0.00	1.04	24.00	0.92	0.00	0.92
21.45	1.03	0.00	1.03				
21.50	1.03	0.00	1.03				
21.55	1.02	0.00	1.02				
21.60	1.02	0.00	1.02				
21.65	1.01	0.00	1.01				
21.70	1.01	0.00	1.01				
21.75	1.01	0.00	1.01				
21.80	1.01	0.00	1.01				
21.85	1.00	0.00	1.00				
21.90	1.00	0.00	1.00				
21.95	0.99	0.00	0.99				
22.00	0.99	0.00	0.99				
22.05	0.98	0.00	0.98				
22.10	0.98	0.00	0.98				
22.15	0.98	0.00	0.98				
22.20	0.97	0.00	0.97				
22.25	0.97	0.00	0.97				
22.30	0.96	0.00	0.96				
22.35	0.96	0.00	0.96				
22.40	0.95	0.00	0.95				
22.45	0.95	0.00	0.95				
22.50	0.95	0.00	0.95				
22.55	0.94	0.00	0.94				
22.60	0.94	0.00	0.94				
22.65	0.94	0.00	0.94				
22.70	0.93	0.00	0.93				
22.75	0.93	0.00	0.93				
22.80	0.92	0.00	0.92				
22.85	0.92	0.00	0.92				
22.90	0.91	0.00	0.91				
22.95	0.91	0.00	0.91				
23.00	0.91	0.00	0.91				
23.05	0.91	0.00	0.91				
23.10	0.90	0.00	0.90				
23.15	0.90	0.00	0.90				
23.20	0.89	0.00	0.89				
23.25	0.89	0.00	0.89				
23.30	0.88	0.00	0.88				
23.35	0.88	0.00	0.88				

Events for Subcatchment EDA 1B PERV: EDA-1B PERV

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR PROJECTED	3.91	0.08	0.013	0.41
10YR PROJECTED	6.17	0.53	0.046	1.45
25YR PROJECTED	8.03	1.03	0.082	2.58
100YR PROJECTED	**11.84**	**2.21**	**0.169**	**5.34**

Events for Subcatchment EDA1A IMP: EDA1A IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR PROJECTED	3.91	4.46	0.326	3.56
10YR PROJECTED	6.17	7.11	0.532	5.81
25YR PROJECTED	8.03	9.28	0.702	7.66
100YR PROJECTED	**11.84**	**13.71**	**1.051**	**11.47**

Events for Subcatchment EDA1A PERV: EDA-1A PERV

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR PROJECTED	3.91	0.72	0.046	1.96
10YR PROJECTED	6.17	1.41	0.092	3.93
25YR PROJECTED	8.03	1.99	0.132	5.65
100YR PROJECTED	**11.84**	**3.17**	**0.217**	**9.28**

Events for Subcatchment EDA1B IMP: EDA1B IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR PROJECTED	3.91	5.06	0.445	3.44
10YR PROJECTED	6.17	8.14	0.734	5.69
25YR PROJECTED	8.03	10.66	0.973	7.54
100YR PROJECTED	**11.84**	**15.79**	**1.464**	**11.33**

Events for Subcatchment EDA2 IMP: EDA2 IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR PROJECTED	3.91	1.35	0.095	3.67
10YR PROJECTED	6.17	2.14	0.153	5.93
25YR PROJECTED	8.03	2.79	0.201	7.78
100YR PROJECTED	**11.84**	**4.12**	**0.299**	**11.59**

Events for Subcatchment EDA3 IMP: EDA3 IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR PROJECTED	3.91	2.94	0.245	3.67
10YR PROJECTED	6.17	4.66	0.395	5.92
25YR PROJECTED	8.03	6.07	0.519	7.78
100YR PROJECTED	**11.84**	**8.97**	**0.772**	**11.58**

Events for Subcatchment EDA3 PERV: EDA3 PERV

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR PROJECTED	3.91	2.13	0.139	1.96
10YR PROJECTED	6.17	4.18	0.278	3.93
25YR PROJECTED	8.03	5.91	0.400	5.65
100YR PROJECTED	**11.84**	**9.44**	**0.657**	**9.28**

Events for Subcatchment EDA4 IMP: EDA4 IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR PROJECTED	3.91	0.75	0.050	3.56
10YR PROJECTED	6.17	1.19	0.082	5.81
25YR PROJECTED	8.03	1.55	0.109	7.67
100YR PROJECTED	**11.84**	**2.30**	**0.163**	**11.47**

Events for Subcatchment EDA4 PERV: EDA4 PERV

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR PROJECTED	3.91	1.92	0.234	1.95
10YR PROJECTED	6.17	3.87	0.469	3.91
25YR PROJECTED	8.03	5.52	0.675	5.62
100YR PROJECTED	**11.84**	**8.92**	**1.109**	**9.24**

Events for Link E1A: E1A

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
2YR PROJECTED	5.17	5.17	**0.00**
10YR PROJECTED	8.51	8.51	0.00
25YR PROJECTED	11.26	11.26	0.00
100YR PROJECTED	**16.89**	**16.89**	0.00

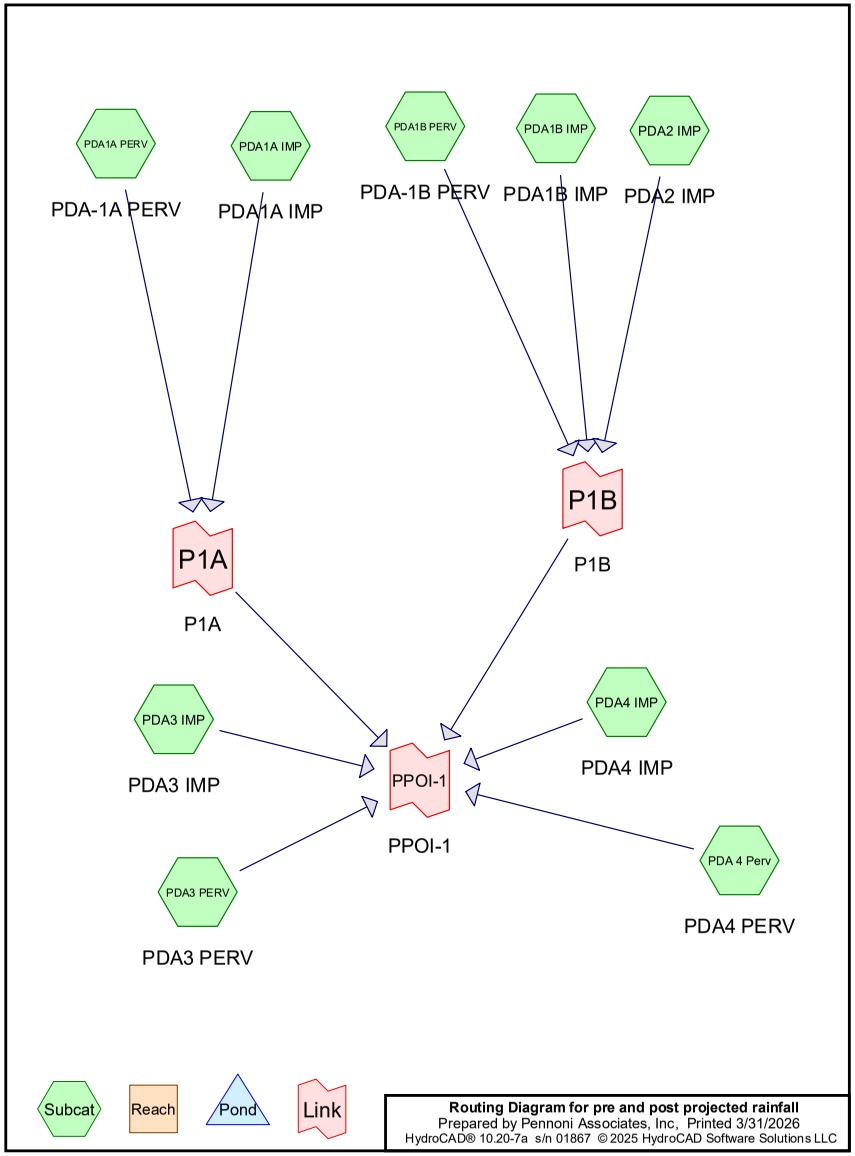
Events for Link E1B: E1B

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
2YR PROJECTED	6.24	6.24	**0.00**
10YR PROJECTED	10.42	10.42	0.00
25YR PROJECTED	13.97	13.97	0.00
100YR PROJECTED	**21.37**	**21.37**	0.00

Events for Link EPOI-1: EPOI-1

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
2YR PROJECTED	18.38	18.38	**0.00**
10YR PROJECTED	31.45	31.45	0.00
25YR PROJECTED	42.40	42.40	0.00
100YR PROJECTED	**64.96**	**64.96**	0.00

Appendix B:
Post-Developed CN & Tc Calculations 2-, 10, 25 & 100-year Storm
Current and Projected Rainfall



Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC	P2 (inches)
1	2YR CURRENT	NOAA 24-hr	C	Default	24.00	1	3.41	2	3.41
2	10YR CURRENT	NOAA 24-hr	C	Default	24.00	1	5.23	2	3.41
3	25YR CURRENT	NOAA 24-hr	C	Default	24.00	1	6.45	2	3.41
4	100YR CURRENT	NOAA 24-hr	C	Default	24.00	1	8.95	2	3.41

PROPOSED CURRENT

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.250	39	>75% Grass cover, Good, HSG A (PDA1B PERV)
1.110	84	>75% Grass cover, Good, HSG D (PDA 4 Perv, PDA1A PERV, PDA1B PERV, PDA3 PERV)
0.100	96	Gravel surface, HSG A (PDA1B IMP)
0.070	96	Gravel surface, HSG D (PDA1B IMP)
0.120	98	Impervious non vehicular (PDA3 IMP)
0.110	98	Impervious non vehicular, HSG D (PDA1B IMP)
3.330	98	Impervious vehicular (PDA1A IMP, PDA1B IMP, PDA2 IMP, PDA3 IMP, PDA4 IMP)
2.980	98	Roofs, HSG D (PDA1A IMP, PDA1B IMP)
8.070	**94**	**TOTAL AREA**

Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.350	HSG A	PDA1B IMP, PDA1B PERV
0.000	HSG B	
0.000	HSG C	
4.270	HSG D	PDA 4 Perv, PDA1A IMP, PDA1A PERV, PDA1B IMP, PDA1B PERV, PDA3 PERV
3.450	Other	PDA1A IMP, PDA1B IMP, PDA2 IMP, PDA3 IMP, PDA4 IMP
8.070		**TOTAL AREA**

Ground Covers (selected nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.250	0.000	0.000	1.110	0.000	1.360	>75% Grass cover, Good	PDA 4 Perv, PDA1A PERV, PDA1B PERV, PDA3 PERV
0.100	0.000	0.000	0.070	0.000	0.170	Gravel surface	PDA1B IMP
0.000	0.000	0.000	0.110	0.120	0.230	Impervious non vehicular	PDA1B IMP, PDA3 IMP
0.000	0.000	0.000	0.000	3.330	3.330	Impervious vehicular	PDA1A IMP, PDA1B IMP, PDA2 IMP, PDA3 IMP, PDA4 IMP
0.000	0.000	0.000	2.980	0.000	2.980	Roofs	PDA1A IMP, PDA1B IMP
0.350	**0.000**	**0.000**	**4.270**	**3.450**	**8.070**	**TOTAL AREA**	

Pipe Listing (selected nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)	N Na
1	PDA 4 Perv	0.00	0.00	48.0	0.0040	0.015	0.0	15.0	0.0	
2	PDA1A IMP	0.00	0.00	185.0	0.0057	0.015	0.0	30.0	0.0	
3	PDA1A PERV	0.00	0.00	22.0	0.0075	0.015	0.0	18.0	0.0	
4	PDA1A PERV	0.00	0.00	211.0	0.0021	0.015	0.0	30.0	0.0	
5	PDA1A PERV	0.00	0.00	185.0	0.0057	0.015	0.0	30.0	0.0	
6	PDA1B IMP	0.00	0.00	238.0	0.0024	0.015	0.0	18.0	0.0	
7	PDA1B IMP	0.00	0.00	92.0	0.0031	0.015	0.0	18.0	0.0	
8	PDA1B IMP	0.00	0.00	93.0	0.0011	0.015	0.0	18.0	0.0	
9	PDA1B IMP	0.00	0.00	95.0	0.0075	0.015	0.0	18.0	0.0	
10	PDA1B IMP	0.00	0.00	76.0	0.0046	0.015	0.0	18.0	0.0	
11	PDA1B PERV	0.00	0.00	238.0	0.0024	0.015	0.0	18.0	0.0	
12	PDA1B PERV	0.00	0.00	92.0	0.0031	0.015	0.0	18.0	0.0	
13	PDA1B PERV	0.00	0.00	93.0	0.0110	0.015	0.0	18.0	0.0	
14	PDA1B PERV	0.00	0.00	95.0	0.0075	0.015	0.0	18.0	0.0	
15	PDA1B PERV	0.00	0.00	76.0	0.0046	0.015	0.0	18.0	0.0	
16	PDA3 IMP	0.00	0.00	172.0	0.0039	0.015	0.0	24.0	0.0	
17	PDA3 IMP	0.00	0.00	27.0	0.0120	0.015	0.0	24.0	0.0	
18	PDA3 IMP	0.00	0.00	439.0	0.0015	0.015	0.0	60.0	0.0	
19	PDA3 PERV	0.00	0.00	42.0	0.0150	0.015	0.0	15.0	0.0	
20	PDA4 IMP	0.00	0.00	100.0	0.0039	0.015	0.0	18.0	0.0	
21	PDA4 IMP	0.00	0.00	100.0	0.0020	0.015	0.0	24.0	0.0	

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment PDA 4 Perv: PDA4 PERV Runoff Area=0.110 ac 0.00% Impervious Runoff Depth>1.86"
Flow Length=117' Tc=1.2 min CN=84 Runoff=0.30 cfs 0.017 af

Subcatchment PDA1AIMP: PDA1A IMP Runoff Area=1.110 ac 100.00% Impervious Runoff Depth>3.17"
Flow Length=332' Tc=2.3 min CN=98 Runoff=4.17 cfs 0.294 af

Subcatchment PDA1APERV: PDA-1APERV Runoff Area=0.270 ac 0.00% Impervious Runoff Depth>1.85"
Flow Length=518' Tc=14.3 min CN=84 Runoff=0.35 cfs 0.042 af

Subcatchment PDA1B IMP: PDA1B IMP Runoff Area=2.680 ac 93.66% Impervious Runoff Depth>3.17"
Flow Length=618' Tc=4.1 min CN=98 Runoff=8.93 cfs 0.709 af

Subcatchment PDA1B PERV: PDA-1B PERV Runoff Area=0.440 ac 0.00% Impervious Runoff Depth>0.42"
Flow Length=761' Tc=5.5 min CN=58 Runoff=0.11 cfs 0.015 af

Subcatchment PDA2 IMP: PDA2 IMP Runoff Area=0.310 ac 100.00% Impervious Runoff Depth>3.17"
Flow Length=351' Tc=2.3 min CN=98 Runoff=1.17 cfs 0.082 af

Subcatchment PDA3 IMP: PDA3 IMP Runoff Area=1.110 ac 100.00% Impervious Runoff Depth>3.17"
Flow Length=804' Tc=4.8 min CN=98 Runoff=3.52 cfs 0.293 af

Subcatchment PDA3 PERV: PDA3 PERV Runoff Area=0.540 ac 0.00% Impervious Runoff Depth>1.86"
Flow Length=131' Tc=3.6 min CN=84 Runoff=1.25 cfs 0.084 af

Subcatchment PDA4 IMP: PDA4 IMP Runoff Area=1.500 ac 100.00% Impervious Runoff Depth>3.17"
Flow Length=388' Tc=3.0 min CN=98 Runoff=5.39 cfs 0.397 af

Link P1A: P1A Inflow=4.40 cfs 0.335 af
Primary=4.40 cfs 0.335 af

Link P1B: P1B Inflow=10.13 cfs 0.806 af
Primary=10.13 cfs 0.806 af

Link PPOI-1: PPOI-1 Inflow=24.80 cfs 1.932 af
Primary=24.80 cfs 1.932 af

Total Runoff Area = 8.070 ac Runoff Volume = 1.932 af Average Runoff Depth = 2.87"
18.96% Pervious = 1.530 ac 81.04% Impervious = 6.540 ac

Summary for Subcatchment PDA 4 Perv: PDA4 PERV

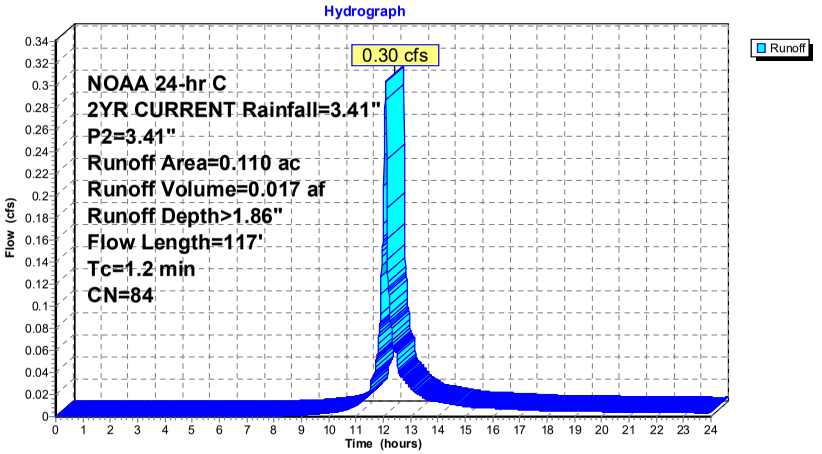
Runoff = 0.30 cfs @ 12.10 hrs, Volume= 0.017 af, Depth> 1.86"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR CURRENT Rainfall=3.41", P2=3.41"

Area (ac)	CN	Description
* 0.110	84	>75% Grass cover, Good, HSG D
0.110		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	5	0.3300	0.30		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
0.6	64	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.3	48	0.0040	2.89	3.54	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
1.2	117	Total			

Subcatchment PDA 4 Perv: PDA4 PERV



Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.10	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.10	0.00	0.00
0.10	0.00	0.00	0.00	2.70	0.11	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.11	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.11	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.11	0.00	0.00
0.30	0.01	0.00	0.00	2.90	0.12	0.00	0.00
0.35	0.01	0.00	0.00	2.95	0.12	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.12	0.00	0.00
0.45	0.02	0.00	0.00	3.05	0.12	0.00	0.00
0.50	0.02	0.00	0.00	3.10	0.12	0.00	0.00
0.55	0.02	0.00	0.00	3.15	0.13	0.00	0.00
0.60	0.02	0.00	0.00	3.20	0.13	0.00	0.00
0.65	0.02	0.00	0.00	3.25	0.13	0.00	0.00
0.70	0.03	0.00	0.00	3.30	0.13	0.00	0.00
0.75	0.03	0.00	0.00	3.35	0.14	0.00	0.00
0.80	0.03	0.00	0.00	3.40	0.14	0.00	0.00
0.85	0.03	0.00	0.00	3.45	0.14	0.00	0.00
0.90	0.03	0.00	0.00	3.50	0.14	0.00	0.00
0.95	0.04	0.00	0.00	3.55	0.15	0.00	0.00
1.00	0.04	0.00	0.00	3.60	0.15	0.00	0.00
1.05	0.04	0.00	0.00	3.65	0.15	0.00	0.00
1.10	0.04	0.00	0.00	3.70	0.15	0.00	0.00
1.15	0.04	0.00	0.00	3.75	0.15	0.00	0.00
1.20	0.04	0.00	0.00	3.80	0.16	0.00	0.00
1.25	0.05	0.00	0.00	3.85	0.16	0.00	0.00
1.30	0.05	0.00	0.00	3.90	0.16	0.00	0.00
1.35	0.05	0.00	0.00	3.95	0.16	0.00	0.00
1.40	0.05	0.00	0.00	4.00	0.17	0.00	0.00
1.45	0.05	0.00	0.00	4.05	0.17	0.00	0.00
1.50	0.06	0.00	0.00	4.10	0.17	0.00	0.00
1.55	0.06	0.00	0.00	4.15	0.17	0.00	0.00
1.60	0.06	0.00	0.00	4.20	0.18	0.00	0.00
1.65	0.06	0.00	0.00	4.25	0.18	0.00	0.00
1.70	0.06	0.00	0.00	4.30	0.18	0.00	0.00
1.75	0.07	0.00	0.00	4.35	0.18	0.00	0.00
1.80	0.07	0.00	0.00	4.40	0.19	0.00	0.00
1.85	0.07	0.00	0.00	4.45	0.19	0.00	0.00
1.90	0.07	0.00	0.00	4.50	0.19	0.00	0.00
1.95	0.08	0.00	0.00	4.55	0.19	0.00	0.00
2.00	0.08	0.00	0.00	4.60	0.20	0.00	0.00
2.05	0.08	0.00	0.00	4.65	0.20	0.00	0.00
2.10	0.08	0.00	0.00	4.70	0.20	0.00	0.00
2.15	0.08	0.00	0.00	4.75	0.20	0.00	0.00
2.20	0.09	0.00	0.00	4.80	0.21	0.00	0.00
2.25	0.09	0.00	0.00	4.85	0.21	0.00	0.00
2.30	0.09	0.00	0.00	4.90	0.21	0.00	0.00
2.35	0.09	0.00	0.00	4.95	0.21	0.00	0.00
2.40	0.09	0.00	0.00	5.00	0.22	0.00	0.00
2.45	0.10	0.00	0.00	5.05	0.22	0.00	0.00
2.50	0.10	0.00	0.00	5.10	0.22	0.00	0.00
2.55	0.10	0.00	0.00	5.15	0.22	0.00	0.00

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.23	0.00	0.00	7.80	0.39	0.00	0.00
5.25	0.23	0.00	0.00	7.85	0.40	0.00	0.00
5.30	0.23	0.00	0.00	7.90	0.40	0.00	0.00
5.35	0.24	0.00	0.00	7.95	0.40	0.00	0.00
5.40	0.24	0.00	0.00	8.00	0.41	0.00	0.00
5.45	0.24	0.00	0.00	8.05	0.41	0.00	0.00
5.50	0.24	0.00	0.00	8.10	0.42	0.00	0.00
5.55	0.25	0.00	0.00	8.15	0.42	0.00	0.00
5.60	0.25	0.00	0.00	8.20	0.43	0.00	0.00
5.65	0.25	0.00	0.00	8.25	0.43	0.00	0.00
5.70	0.25	0.00	0.00	8.30	0.43	0.00	0.00
5.75	0.26	0.00	0.00	8.35	0.44	0.00	0.00
5.80	0.26	0.00	0.00	8.40	0.44	0.00	0.00
5.85	0.26	0.00	0.00	8.45	0.45	0.00	0.00
5.90	0.26	0.00	0.00	8.50	0.45	0.00	0.00
5.95	0.27	0.00	0.00	8.55	0.46	0.00	0.00
6.00	0.27	0.00	0.00	8.60	0.46	0.00	0.00
6.05	0.27	0.00	0.00	8.65	0.47	0.00	0.00
6.10	0.28	0.00	0.00	8.70	0.47	0.00	0.00
6.15	0.28	0.00	0.00	8.75	0.47	0.00	0.00
6.20	0.28	0.00	0.00	8.80	0.48	0.00	0.00
6.25	0.28	0.00	0.00	8.85	0.48	0.01	0.00
6.30	0.29	0.00	0.00	8.90	0.49	0.01	0.00
6.35	0.29	0.00	0.00	8.95	0.49	0.01	0.00
6.40	0.29	0.00	0.00	9.00	0.50	0.01	0.00
6.45	0.30	0.00	0.00	9.05	0.50	0.01	0.00
6.50	0.30	0.00	0.00	9.10	0.51	0.01	0.00
6.55	0.30	0.00	0.00	9.15	0.51	0.01	0.00
6.60	0.31	0.00	0.00	9.20	0.52	0.01	0.00
6.65	0.31	0.00	0.00	9.25	0.52	0.01	0.00
6.70	0.31	0.00	0.00	9.30	0.53	0.01	0.00
6.75	0.32	0.00	0.00	9.35	0.54	0.01	0.00
6.80	0.32	0.00	0.00	9.40	0.54	0.01	0.00
6.85	0.32	0.00	0.00	9.45	0.55	0.01	0.00
6.90	0.33	0.00	0.00	9.50	0.55	0.01	0.00
6.95	0.33	0.00	0.00	9.55	0.56	0.02	0.00
7.00	0.33	0.00	0.00	9.60	0.57	0.02	0.00
7.05	0.34	0.00	0.00	9.65	0.57	0.02	0.00
7.10	0.34	0.00	0.00	9.70	0.58	0.02	0.00
7.15	0.34	0.00	0.00	9.75	0.59	0.02	0.00
7.20	0.35	0.00	0.00	9.80	0.59	0.02	0.00
7.25	0.35	0.00	0.00	9.85	0.60	0.02	0.00
7.30	0.35	0.00	0.00	9.90	0.61	0.02	0.00
7.35	0.36	0.00	0.00	9.95	0.61	0.03	0.00
7.40	0.36	0.00	0.00	10.00	0.62	0.03	0.00
7.45	0.37	0.00	0.00	10.05	0.63	0.03	0.00
7.50	0.37	0.00	0.00	10.10	0.64	0.03	0.00
7.55	0.37	0.00	0.00	10.15	0.64	0.03	0.00
7.60	0.38	0.00	0.00	10.20	0.65	0.03	0.00
7.65	0.38	0.00	0.00	10.25	0.66	0.04	0.00
7.70	0.38	0.00	0.00	10.30	0.67	0.04	0.00
7.75	0.39	0.00	0.00	10.35	0.68	0.04	0.00

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.69	0.04	0.00	13.00	2.59	1.19	0.03
10.45	0.69	0.04	0.00	13.05	2.61	1.20	0.02
10.50	0.70	0.05	0.01	13.10	2.62	1.21	0.02
10.55	0.71	0.05	0.01	13.15	2.63	1.22	0.02
10.60	0.72	0.05	0.01	13.20	2.64	1.23	0.02
10.65	0.73	0.05	0.01	13.25	2.66	1.24	0.02
10.70	0.74	0.06	0.01	13.30	2.67	1.25	0.02
10.75	0.75	0.06	0.01	13.35	2.68	1.26	0.02
10.80	0.77	0.06	0.01	13.40	2.69	1.26	0.02
10.85	0.78	0.07	0.01	13.45	2.70	1.27	0.02
10.90	0.79	0.07	0.01	13.50	2.71	1.28	0.02
10.95	0.80	0.08	0.01	13.55	2.72	1.29	0.02
11.00	0.82	0.08	0.01	13.60	2.72	1.29	0.02
11.05	0.83	0.09	0.01	13.65	2.73	1.30	0.01
11.10	0.85	0.09	0.01	13.70	2.74	1.31	0.01
11.15	0.87	0.10	0.01	13.75	2.75	1.31	0.01
11.20	0.88	0.10	0.01	13.80	2.76	1.32	0.01
11.25	0.90	0.11	0.02	13.85	2.77	1.33	0.01
11.30	0.92	0.12	0.02	13.90	2.77	1.33	0.01
11.35	0.94	0.13	0.02	13.95	2.78	1.34	0.01
11.40	0.96	0.14	0.02	14.00	2.79	1.34	0.01
11.45	0.99	0.15	0.02	14.05	2.80	1.35	0.01
11.50	1.01	0.16	0.02	14.10	2.80	1.36	0.01
11.55	1.04	0.17	0.03	14.15	2.81	1.36	0.01
11.60	1.08	0.19	0.03	14.20	2.82	1.37	0.01
11.65	1.11	0.20	0.04	14.25	2.82	1.37	0.01
11.70	1.15	0.22	0.04	14.30	2.83	1.38	0.01
11.75	1.20	0.25	0.05	14.35	2.84	1.38	0.01
11.80	1.25	0.27	0.06	14.40	2.84	1.39	0.01
11.85	1.32	0.31	0.08	14.45	2.85	1.39	0.01
11.90	1.39	0.35	0.09	14.50	2.86	1.40	0.01
11.95	1.51	0.42	0.14	14.55	2.86	1.40	0.01
12.00	1.63	0.49	0.16	14.60	2.87	1.41	0.01
12.05	1.82	0.62	0.27	14.65	2.87	1.41	0.01
12.10	2.02	0.76	**0.30**	14.70	2.88	1.42	0.01
12.15	2.09	0.81	0.14	14.75	2.89	1.42	0.01
12.20	2.16	0.86	0.11	14.80	2.89	1.43	0.01
12.25	2.21	0.90	0.09	14.85	2.90	1.43	0.01
12.30	2.26	0.93	0.08	14.90	2.90	1.44	0.01
12.35	2.30	0.96	0.06	14.95	2.91	1.44	0.01
12.40	2.33	0.99	0.06	15.00	2.91	1.44	0.01
12.45	2.37	1.01	0.06	15.05	2.92	1.45	0.01
12.50	2.40	1.04	0.06	15.10	2.92	1.45	0.01
12.55	2.42	1.06	0.04	15.15	2.93	1.46	0.01
12.60	2.45	1.07	0.04	15.20	2.93	1.46	0.01
12.65	2.47	1.09	0.04	15.25	2.94	1.46	0.01
12.70	2.49	1.11	0.04	15.30	2.94	1.47	0.01
12.75	2.51	1.12	0.03	15.35	2.94	1.47	0.01
12.80	2.53	1.14	0.03	15.40	2.95	1.47	0.01
12.85	2.54	1.15	0.03	15.45	2.95	1.48	0.01
12.90	2.56	1.16	0.03	15.50	2.96	1.48	0.01
12.95	2.58	1.18	0.03	15.55	2.96	1.49	0.01

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	2.97	1.49	0.01	18.20	3.15	1.64	0.01
15.65	2.97	1.49	0.01	18.25	3.15	1.64	0.01
15.70	2.98	1.50	0.01	18.30	3.16	1.65	0.01
15.75	2.98	1.50	0.01	18.35	3.16	1.65	0.00
15.80	2.98	1.50	0.01	18.40	3.16	1.65	0.00
15.85	2.99	1.51	0.01	18.45	3.16	1.65	0.00
15.90	2.99	1.51	0.01	18.50	3.17	1.65	0.00
15.95	3.00	1.51	0.01	18.55	3.17	1.66	0.00
16.00	3.00	1.52	0.01	18.60	3.17	1.66	0.00
16.05	3.01	1.52	0.01	18.65	3.17	1.66	0.00
16.10	3.01	1.52	0.01	18.70	3.18	1.66	0.00
16.15	3.01	1.53	0.01	18.75	3.18	1.67	0.00
16.20	3.02	1.53	0.01	18.80	3.18	1.67	0.00
16.25	3.02	1.53	0.01	18.85	3.19	1.67	0.00
16.30	3.03	1.54	0.01	18.90	3.19	1.67	0.00
16.35	3.03	1.54	0.01	18.95	3.19	1.67	0.00
16.40	3.03	1.54	0.01	19.00	3.19	1.68	0.00
16.45	3.04	1.55	0.01	19.05	3.20	1.68	0.00
16.50	3.04	1.55	0.01	19.10	3.20	1.68	0.00
16.55	3.04	1.55	0.01	19.15	3.20	1.68	0.00
16.60	3.05	1.56	0.01	19.20	3.20	1.69	0.00
16.65	3.05	1.56	0.01	19.25	3.21	1.69	0.00
16.70	3.06	1.56	0.01	19.30	3.21	1.69	0.00
16.75	3.06	1.57	0.01	19.35	3.21	1.69	0.00
16.80	3.06	1.57	0.01	19.40	3.21	1.69	0.00
16.85	3.07	1.57	0.01	19.45	3.22	1.70	0.00
16.90	3.07	1.57	0.01	19.50	3.22	1.70	0.00
16.95	3.07	1.58	0.01	19.55	3.22	1.70	0.00
17.00	3.08	1.58	0.01	19.60	3.22	1.70	0.00
17.05	3.08	1.58	0.01	19.65	3.23	1.70	0.00
17.10	3.08	1.59	0.01	19.70	3.23	1.71	0.00
17.15	3.09	1.59	0.01	19.75	3.23	1.71	0.00
17.20	3.09	1.59	0.01	19.80	3.23	1.71	0.00
17.25	3.09	1.59	0.01	19.85	3.24	1.71	0.00
17.30	3.10	1.60	0.01	19.90	3.24	1.71	0.00
17.35	3.10	1.60	0.01	19.95	3.24	1.72	0.00
17.40	3.10	1.60	0.01	20.00	3.24	1.72	0.00
17.45	3.11	1.60	0.01	20.05	3.25	1.72	0.00
17.50	3.11	1.61	0.01	20.10	3.25	1.72	0.00
17.55	3.11	1.61	0.01	20.15	3.25	1.72	0.00
17.60	3.12	1.61	0.01	20.20	3.25	1.73	0.00
17.65	3.12	1.62	0.01	20.25	3.26	1.73	0.00
17.70	3.12	1.62	0.01	20.30	3.26	1.73	0.00
17.75	3.13	1.62	0.01	20.35	3.26	1.73	0.00
17.80	3.13	1.62	0.01	20.40	3.26	1.73	0.00
17.85	3.13	1.62	0.01	20.45	3.26	1.74	0.00
17.90	3.13	1.63	0.01	20.50	3.27	1.74	0.00
17.95	3.14	1.63	0.01	20.55	3.27	1.74	0.00
18.00	3.14	1.63	0.01	20.60	3.27	1.74	0.00
18.05	3.14	1.63	0.01	20.65	3.27	1.74	0.00
18.10	3.15	1.64	0.01	20.70	3.28	1.75	0.00
18.15	3.15	1.64	0.01	20.75	3.28	1.75	0.00

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.28	1.75	0.00	23.40	3.39	1.84	0.00
20.85	3.28	1.75	0.00	23.45	3.39	1.84	0.00
20.90	3.29	1.75	0.00	23.50	3.39	1.84	0.00
20.95	3.29	1.76	0.00	23.55	3.39	1.85	0.00
21.00	3.29	1.76	0.00	23.60	3.39	1.85	0.00
21.05	3.29	1.76	0.00	23.65	3.40	1.85	0.00
21.10	3.29	1.76	0.00	23.70	3.40	1.85	0.00
21.15	3.30	1.76	0.00	23.75	3.40	1.85	0.00
21.20	3.30	1.77	0.00	23.80	3.40	1.85	0.00
21.25	3.30	1.77	0.00	23.85	3.40	1.85	0.00
21.30	3.30	1.77	0.00	23.90	3.41	1.86	0.00
21.35	3.31	1.77	0.00	23.95	3.41	1.86	0.00
21.40	3.31	1.77	0.00	24.00	**3.41**	**1.86**	0.00
21.45	3.31	1.77	0.00				
21.50	3.31	1.78	0.00				
21.55	3.31	1.78	0.00				
21.60	3.32	1.78	0.00				
21.65	3.32	1.78	0.00				
21.70	3.32	1.78	0.00				
21.75	3.32	1.79	0.00				
21.80	3.32	1.79	0.00				
21.85	3.33	1.79	0.00				
21.90	3.33	1.79	0.00				
21.95	3.33	1.79	0.00				
22.00	3.33	1.79	0.00				
22.05	3.33	1.80	0.00				
22.10	3.34	1.80	0.00				
22.15	3.34	1.80	0.00				
22.20	3.34	1.80	0.00				
22.25	3.34	1.80	0.00				
22.30	3.35	1.80	0.00				
22.35	3.35	1.81	0.00				
22.40	3.35	1.81	0.00				
22.45	3.35	1.81	0.00				
22.50	3.35	1.81	0.00				
22.55	3.36	1.81	0.00				
22.60	3.36	1.81	0.00				
22.65	3.36	1.82	0.00				
22.70	3.36	1.82	0.00				
22.75	3.36	1.82	0.00				
22.80	3.37	1.82	0.00				
22.85	3.37	1.82	0.00				
22.90	3.37	1.82	0.00				
22.95	3.37	1.83	0.00				
23.00	3.37	1.83	0.00				
23.05	3.37	1.83	0.00				
23.10	3.38	1.83	0.00				
23.15	3.38	1.83	0.00				
23.20	3.38	1.83	0.00				
23.25	3.38	1.84	0.00				
23.30	3.38	1.84	0.00				
23.35	3.39	1.84	0.00				

Summary for Subcatchment PDA1A IMP: PDA1A IMP

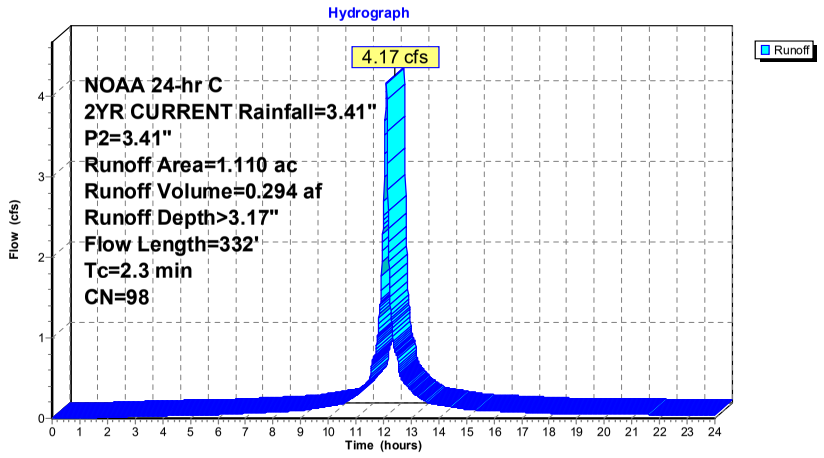
Runoff = 4.17 cfs @ 12.11 hrs, Volume= 0.294 af, Depth> 3.17"
Routed to Link P1A : P1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR CURRENT Rainfall=3.41", P2=3.41"

	Area (ac)	CN	Description
*	0.340	98	Impervious vehicular
	0.770	98	Roofs, HSG D
	1.110	98	Weighted Average
	1.110		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	100	0.0160	1.30		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.4	47	0.0100	2.03		**Shallow Concentrated Flow, paved** Paved Kv= 20.3 fps
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
2.3	332	Total			

Subcatchment PDA1A IMP: PDA1A IMP



Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.10	0.01	0.02
0.05	0.00	0.00	0.00	2.65	0.10	0.02	0.02
0.10	0.00	0.00	0.00	2.70	0.11	0.02	0.02
0.15	0.01	0.00	0.00	2.75	0.11	0.02	0.02
0.20	0.01	0.00	0.00	2.80	0.11	0.02	0.02
0.25	0.01	0.00	0.00	2.85	0.11	0.02	0.02
0.30	0.01	0.00	0.00	2.90	0.12	0.02	0.02
0.35	0.01	0.00	0.00	2.95	0.12	0.02	0.02
0.40	0.02	0.00	0.00	3.00	0.12	0.02	0.02
0.45	0.02	0.00	0.00	3.05	0.12	0.02	0.02
0.50	0.02	0.00	0.00	3.10	0.12	0.02	0.02
0.55	0.02	0.00	0.00	3.15	0.13	0.03	0.03
0.60	0.02	0.00	0.00	3.20	0.13	0.03	0.03
0.65	0.02	0.00	0.00	3.25	0.13	0.03	0.03
0.70	0.03	0.00	0.00	3.30	0.13	0.03	0.03
0.75	0.03	0.00	0.00	3.35	0.14	0.03	0.03
0.80	0.03	0.00	0.00	3.40	0.14	0.03	0.03
0.85	0.03	0.00	0.00	3.45	0.14	0.03	0.03
0.90	0.03	0.00	0.00	3.50	0.14	0.03	0.03
0.95	0.04	0.00	0.00	3.55	0.15	0.04	0.03
1.00	0.04	0.00	0.00	3.60	0.15	0.04	0.03
1.05	0.04	0.00	0.00	3.65	0.15	0.04	0.03
1.10	0.04	0.00	0.00	3.70	0.15	0.04	0.03
1.15	0.04	0.00	0.00	3.75	0.15	0.04	0.03
1.20	0.04	0.00	0.00	3.80	0.16	0.04	0.03
1.25	0.05	0.00	0.00	3.85	0.16	0.04	0.03
1.30	0.05	0.00	0.00	3.90	0.16	0.05	0.03
1.35	0.05	0.00	0.00	3.95	0.16	0.05	0.03
1.40	0.05	0.00	0.00	4.00	0.17	0.05	0.03
1.45	0.05	0.00	0.00	4.05	0.17	0.05	0.03
1.50	0.06	0.00	0.01	4.10	0.17	0.05	0.03
1.55	0.06	0.00	0.01	4.15	0.17	0.05	0.03
1.60	0.06	0.00	0.01	4.20	0.18	0.05	0.03
1.65	0.06	0.00	0.01	4.25	0.18	0.06	0.04
1.70	0.06	0.00	0.01	4.30	0.18	0.06	0.04
1.75	0.07	0.00	0.01	4.35	0.18	0.06	0.04
1.80	0.07	0.00	0.01	4.40	0.19	0.06	0.04
1.85	0.07	0.00	0.01	4.45	0.19	0.06	0.04
1.90	0.07	0.00	0.01	4.50	0.19	0.06	0.04
1.95	0.08	0.00	0.01	4.55	0.19	0.07	0.04
2.00	0.08	0.01	0.01	4.60	0.20	0.07	0.04
2.05	0.08	0.01	0.01	4.65	0.20	0.07	0.04
2.10	0.08	0.01	0.01	4.70	0.20	0.07	0.04
2.15	0.08	0.01	0.01	4.75	0.20	0.07	0.04
2.20	0.09	0.01	0.01	4.80	0.21	0.07	0.04
2.25	0.09	0.01	0.02	4.85	0.21	0.08	0.04
2.30	0.09	0.01	0.02	4.90	0.21	0.08	0.04
2.35	0.09	0.01	0.02	4.95	0.21	0.08	0.04
2.40	0.09	0.01	0.02	5.00	0.22	0.08	0.04
2.45	0.10	0.01	0.02	5.05	0.22	0.08	0.04
2.50	0.10	0.01	0.02	5.10	0.22	0.09	0.04
2.55	0.10	0.01	0.02	5.15	0.22	0.09	0.04

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.23	0.09	0.04	7.80	0.39	0.22	0.08
5.25	0.23	0.09	0.04	7.85	0.40	0.23	0.08
5.30	0.23	0.09	0.04	7.90	0.40	0.23	0.08
5.35	0.24	0.09	0.04	7.95	0.40	0.23	0.08
5.40	0.24	0.10	0.04	8.00	0.41	0.24	0.08
5.45	0.24	0.10	0.04	8.05	0.41	0.24	0.08
5.50	0.24	0.10	0.04	8.10	0.42	0.24	0.08
5.55	0.25	0.10	0.04	8.15	0.42	0.25	0.08
5.60	0.25	0.10	0.04	8.20	0.43	0.25	0.08
5.65	0.25	0.11	0.05	8.25	0.43	0.26	0.08
5.70	0.25	0.11	0.05	8.30	0.43	0.26	0.08
5.75	0.26	0.11	0.05	8.35	0.44	0.26	0.09
5.80	0.26	0.11	0.05	8.40	0.44	0.27	0.09
5.85	0.26	0.12	0.05	8.45	0.45	0.27	0.09
5.90	0.26	0.12	0.05	8.50	0.45	0.27	0.09
5.95	0.27	0.12	0.05	8.55	0.46	0.28	0.09
6.00	0.27	0.12	0.05	8.60	0.46	0.28	0.09
6.05	0.27	0.12	0.05	8.65	0.47	0.29	0.09
6.10	0.28	0.13	0.05	8.70	0.47	0.29	0.09
6.15	0.28	0.13	0.05	8.75	0.47	0.29	0.09
6.20	0.28	0.13	0.05	8.80	0.48	0.30	0.09
6.25	0.28	0.13	0.05	8.85	0.48	0.30	0.09
6.30	0.29	0.14	0.05	8.90	0.49	0.31	0.09
6.35	0.29	0.14	0.05	8.95	0.49	0.31	0.10
6.40	0.29	0.14	0.05	9.00	0.50	0.32	0.10
6.45	0.30	0.14	0.05	9.05	0.50	0.32	0.10
6.50	0.30	0.14	0.06	9.10	0.51	0.33	0.10
6.55	0.30	0.15	0.06	9.15	0.51	0.33	0.10
6.60	0.31	0.15	0.06	9.20	0.52	0.33	0.11
6.65	0.31	0.15	0.06	9.25	0.52	0.34	0.11
6.70	0.31	0.16	0.06	9.30	0.53	0.34	0.11
6.75	0.32	0.16	0.06	9.35	0.54	0.35	0.12
6.80	0.32	0.16	0.06	9.40	0.54	0.36	0.12
6.85	0.32	0.16	0.06	9.45	0.55	0.36	0.12
6.90	0.33	0.17	0.06	9.50	0.55	0.37	0.12
6.95	0.33	0.17	0.06	9.55	0.56	0.37	0.13
7.00	0.33	0.17	0.06	9.60	0.57	0.38	0.13
7.05	0.34	0.17	0.06	9.65	0.57	0.38	0.13
7.10	0.34	0.18	0.06	9.70	0.58	0.39	0.13
7.15	0.34	0.18	0.07	9.75	0.59	0.40	0.14
7.20	0.35	0.18	0.07	9.80	0.59	0.40	0.14
7.25	0.35	0.19	0.07	9.85	0.60	0.41	0.14
7.30	0.35	0.19	0.07	9.90	0.61	0.42	0.15
7.35	0.36	0.19	0.07	9.95	0.61	0.42	0.15
7.40	0.36	0.20	0.07	10.00	0.62	0.43	0.15
7.45	0.37	0.20	0.07	10.05	0.63	0.44	0.16
7.50	0.37	0.20	0.07	10.10	0.64	0.44	0.16
7.55	0.37	0.21	0.07	10.15	0.64	0.45	0.16
7.60	0.38	0.21	0.07	10.20	0.65	0.46	0.16
7.65	0.38	0.21	0.07	10.25	0.66	0.47	0.17
7.70	0.38	0.22	0.07	10.30	0.67	0.47	0.17
7.75	0.39	0.22	0.08	10.35	0.68	0.48	0.17

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.69	0.49	0.18	13.00	2.59	2.36	0.35
10.45	0.69	0.50	0.18	13.05	2.61	2.38	0.32
10.50	0.70	0.51	0.18	13.10	2.62	2.39	0.31
10.55	0.71	0.52	0.19	13.15	2.63	2.40	0.29
10.60	0.72	0.52	0.20	13.20	2.64	2.41	0.28
10.65	0.73	0.53	0.21	13.25	2.66	2.43	0.27
10.70	0.74	0.54	0.22	13.30	2.67	2.44	0.26
10.75	0.75	0.56	0.23	13.35	2.68	2.45	0.25
10.80	0.77	0.57	0.24	13.40	2.69	2.46	0.24
10.85	0.78	0.58	0.26	13.45	2.70	2.47	0.22
10.90	0.79	0.59	0.26	13.50	2.71	2.48	0.22
10.95	0.80	0.60	0.28	13.55	2.72	2.49	0.20
11.00	0.82	0.62	0.29	13.60	2.72	2.49	0.20
11.05	0.83	0.63	0.31	13.65	2.73	2.50	0.19
11.10	0.85	0.65	0.32	13.70	2.74	2.51	0.19
11.15	0.87	0.66	0.35	13.75	2.75	2.52	0.18
11.20	0.88	0.68	0.36	13.80	2.76	2.53	0.18
11.25	0.90	0.70	0.39	13.85	2.77	2.53	0.18
11.30	0.92	0.71	0.40	13.90	2.77	2.54	0.18
11.35	0.94	0.74	0.43	13.95	2.78	2.55	0.17
11.40	0.96	0.76	0.44	14.00	2.79	2.56	0.17
11.45	0.99	0.78	0.47	14.05	2.80	2.56	0.17
11.50	1.01	0.80	0.48	14.10	2.80	2.57	0.16
11.55	1.04	0.83	0.62	14.15	2.81	2.58	0.16
11.60	1.08	0.87	0.71	14.20	2.82	2.59	0.16
11.65	1.11	0.90	0.76	14.25	2.82	2.59	0.16
11.70	1.15	0.94	0.78	14.30	2.83	2.60	0.15
11.75	1.20	0.98	0.95	14.35	2.84	2.61	0.15
11.80	1.25	1.03	1.05	14.40	2.84	2.61	0.15
11.85	1.32	1.10	1.30	14.45	2.85	2.62	0.14
11.90	1.39	1.17	1.45	14.50	2.86	2.63	0.14
11.95	1.51	1.29	2.08	14.55	2.86	2.63	0.14
12.00	1.63	1.40	2.46	14.60	2.87	2.64	0.14
12.05	1.82	1.60	3.52	14.65	2.87	2.64	0.13
12.10	2.02	1.80	**4.14**	14.70	2.88	2.65	0.13
12.15	2.09	1.87	**2.84**	14.75	2.89	2.65	0.13
12.20	2.16	1.93	1.94	14.80	2.89	2.66	0.12
12.25	2.21	1.98	1.41	14.85	2.90	2.67	0.12
12.30	2.26	2.03	1.19	14.90	2.90	2.67	0.12
12.35	2.30	2.07	0.96	14.95	2.91	2.68	0.12
12.40	2.33	2.11	0.85	15.00	2.91	2.68	0.11
12.45	2.37	2.14	0.80	15.05	2.92	2.69	0.11
12.50	2.40	2.17	0.77	15.10	2.92	2.69	0.11
12.55	2.42	2.20	0.63	15.15	2.93	2.69	0.11
12.60	2.45	2.22	0.54	15.20	2.93	2.70	0.11
12.65	2.47	2.24	0.49	15.25	2.94	2.70	0.10
12.70	2.49	2.26	0.47	15.30	2.94	2.71	0.10
12.75	2.51	2.28	0.44	15.35	2.94	2.71	0.10
12.80	2.53	2.30	0.43	15.40	2.95	2.72	0.10
12.85	2.54	2.31	0.40	15.45	2.95	2.72	0.10
12.90	2.56	2.33	0.39	15.50	2.96	2.73	0.10
12.95	2.58	2.35	0.36	15.55	2.96	2.73	0.10

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	2.97	2.74	0.10	18.20	3.15	2.92	0.06
15.65	2.97	2.74	0.10	18.25	3.15	2.92	0.06
15.70	2.98	2.74	0.10	18.30	3.16	2.92	0.06
15.75	2.98	2.75	0.10	18.35	3.16	2.93	0.06
15.80	2.98	2.75	0.10	18.40	3.16	2.93	0.06
15.85	2.99	2.76	0.10	18.45	3.16	2.93	0.06
15.90	2.99	2.76	0.09	18.50	3.17	2.93	0.06
15.95	3.00	2.77	0.09	18.55	3.17	2.94	0.06
16.00	3.00	2.77	0.09	18.60	3.17	2.94	0.06
16.05	3.01	2.77	0.09	18.65	3.17	2.94	0.06
16.10	3.01	2.78	0.09	18.70	3.18	2.95	0.06
16.15	3.01	2.78	0.09	18.75	3.18	2.95	0.06
16.20	3.02	2.79	0.09	18.80	3.18	2.95	0.06
16.25	3.02	2.79	0.09	18.85	3.19	2.95	0.06
16.30	3.03	2.79	0.09	18.90	3.19	2.96	0.06
16.35	3.03	2.80	0.09	18.95	3.19	2.96	0.06
16.40	3.03	2.80	0.09	19.00	3.19	2.96	0.06
16.45	3.04	2.81	0.09	19.05	3.20	2.96	0.06
16.50	3.04	2.81	0.09	19.10	3.20	2.97	0.06
16.55	3.04	2.81	0.08	19.15	3.20	2.97	0.06
16.60	3.05	2.82	0.08	19.20	3.20	2.97	0.06
16.65	3.05	2.82	0.08	19.25	3.21	2.97	0.06
16.70	3.06	2.82	0.08	19.30	3.21	2.98	0.06
16.75	3.06	2.83	0.08	19.35	3.21	2.98	0.06
16.80	3.06	2.83	0.08	19.40	3.21	2.98	0.06
16.85	3.07	2.83	0.08	19.45	3.22	2.98	0.06
16.90	3.07	2.84	0.08	19.50	3.22	2.99	0.06
16.95	3.07	2.84	0.08	19.55	3.22	2.99	0.06
17.00	3.08	2.85	0.08	19.60	3.22	2.99	0.06
17.05	3.08	2.85	0.08	19.65	3.23	2.99	0.06
17.10	3.08	2.85	0.08	19.70	3.23	3.00	0.06
17.15	3.09	2.86	0.08	19.75	3.23	3.00	0.06
17.20	3.09	2.86	0.08	19.80	3.23	3.00	0.06
17.25	3.09	2.86	0.07	19.85	3.24	3.00	0.05
17.30	3.10	2.87	0.07	19.90	3.24	3.01	0.05
17.35	3.10	2.87	0.07	19.95	3.24	3.01	0.05
17.40	3.10	2.87	0.07	20.00	3.24	3.01	0.05
17.45	3.11	2.87	0.07	20.05	3.25	3.01	0.05
17.50	3.11	2.88	0.07	20.10	3.25	3.02	0.05
17.55	3.11	2.88	0.07	20.15	3.25	3.02	0.05
17.60	3.12	2.88	0.07	20.20	3.25	3.02	0.05
17.65	3.12	2.89	0.07	20.25	3.26	3.02	0.05
17.70	3.12	2.89	0.07	20.30	3.26	3.02	0.05
17.75	3.13	2.89	0.07	20.35	3.26	3.03	0.05
17.80	3.13	2.90	0.07	20.40	3.26	3.03	0.05
17.85	3.13	2.90	0.07	20.45	3.26	3.03	0.05
17.90	3.13	2.90	0.06	20.50	3.27	3.03	0.05
17.95	3.14	2.90	0.06	20.55	3.27	3.04	0.05
18.00	3.14	2.91	0.06	20.60	3.27	3.04	0.05
18.05	3.14	2.91	0.06	20.65	3.27	3.04	0.05
18.10	3.15	2.91	0.06	20.70	3.28	3.04	0.05
18.15	3.15	2.92	0.06	20.75	3.28	3.05	0.05

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.28	3.05	0.05	23.40	3.39	3.15	0.04
20.85	3.28	3.05	0.05	23.45	3.39	3.16	0.04
20.90	3.29	3.05	0.05	23.50	3.39	3.16	0.04
20.95	3.29	3.05	0.05	23.55	3.39	3.16	0.04
21.00	3.29	3.06	0.05	23.60	3.39	3.16	0.04
21.05	3.29	3.06	0.05	23.65	3.40	3.16	0.04
21.10	3.29	3.06	0.05	23.70	3.40	3.17	0.04
21.15	3.30	3.06	0.05	23.75	3.40	3.17	0.04
21.20	3.30	3.07	0.05	23.80	3.40	3.17	0.04
21.25	3.30	3.07	0.05	23.85	3.40	3.17	0.04
21.30	3.30	3.07	0.05	23.90	3.41	3.17	0.04
21.35	3.31	3.07	0.05	23.95	3.41	3.17	0.04
21.40	3.31	3.07	0.05	24.00	**3.41**	**3.18**	0.05
21.45	3.31	3.08	0.05				
21.50	3.31	3.08	0.05				
21.55	3.31	3.08	0.05				
21.60	3.32	3.08	0.05				
21.65	3.32	3.09	0.05				
21.70	3.32	3.09	0.05				
21.75	3.32	3.09	0.05				
21.80	3.32	3.09	0.05				
21.85	3.33	3.09	0.05				
21.90	3.33	3.10	0.05				
21.95	3.33	3.10	0.05				
22.00	3.33	3.10	0.05				
22.05	3.33	3.10	0.05				
22.10	3.34	3.10	0.05				
22.15	3.34	3.11	0.05				
22.20	3.34	3.11	0.05				
22.25	3.34	3.11	0.05				
22.30	3.35	3.11	0.05				
22.35	3.35	3.11	0.05				
22.40	3.35	3.12	0.04				
22.45	3.35	3.12	0.04				
22.50	3.35	3.12	0.04				
22.55	3.36	3.12	0.04				
22.60	3.36	3.12	0.04				
22.65	3.36	3.13	0.04				
22.70	3.36	3.13	0.04				
22.75	3.36	3.13	0.04				
22.80	3.37	3.13	0.04				
22.85	3.37	3.13	0.04				
22.90	3.37	3.14	0.04				
22.95	3.37	3.14	0.04				
23.00	3.37	3.14	0.04				
23.05	3.37	3.14	0.04				
23.10	3.38	3.14	0.04				
23.15	3.38	3.15	0.04				
23.20	3.38	3.15	0.04				
23.25	3.38	3.15	0.04				
23.30	3.38	3.15	0.04				
23.35	3.39	3.15	0.04				

Summary for Subcatchment PDA1A PERV: PDA-1A PERV

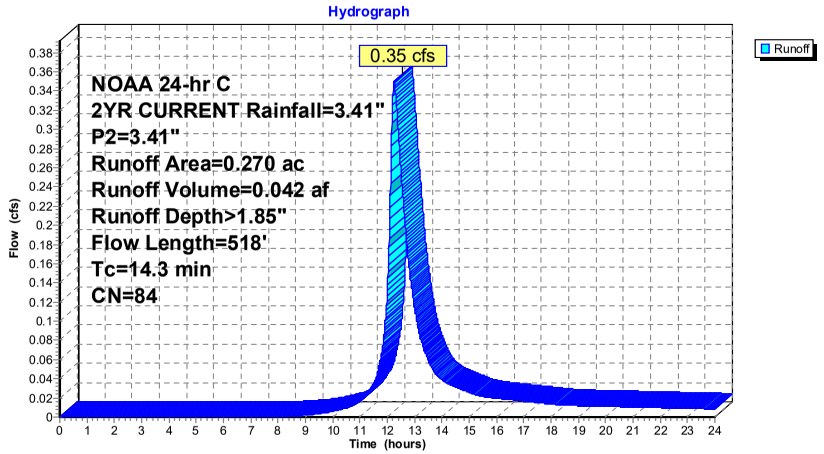
Runoff = 0.35 cfs @ 12.24 hrs, Volume= 0.042 af, Depth> 1.85"
Routed to Link P1A : P1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR CURRENT Rainfall=3.41", P2=3.41"

	Area (ac)	CN	Description
*	0.270	84	>75% Grass cover, Good, HSG D
	0.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.5	100	0.0100	0.13		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
0.1	22	0.0075	4.46	7.88	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP-2 Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
14.3	518	Total			

Subcatchment PDA1A PERV: PDA-1A PERV



Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.10	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.10	0.00	0.00
0.10	0.00	0.00	0.00	2.70	0.11	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.11	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.11	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.11	0.00	0.00
0.30	0.01	0.00	0.00	2.90	0.12	0.00	0.00
0.35	0.01	0.00	0.00	2.95	0.12	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.12	0.00	0.00
0.45	0.02	0.00	0.00	3.05	0.12	0.00	0.00
0.50	0.02	0.00	0.00	3.10	0.12	0.00	0.00
0.55	0.02	0.00	0.00	3.15	0.13	0.00	0.00
0.60	0.02	0.00	0.00	3.20	0.13	0.00	0.00
0.65	0.02	0.00	0.00	3.25	0.13	0.00	0.00
0.70	0.03	0.00	0.00	3.30	0.13	0.00	0.00
0.75	0.03	0.00	0.00	3.35	0.14	0.00	0.00
0.80	0.03	0.00	0.00	3.40	0.14	0.00	0.00
0.85	0.03	0.00	0.00	3.45	0.14	0.00	0.00
0.90	0.03	0.00	0.00	3.50	0.14	0.00	0.00
0.95	0.04	0.00	0.00	3.55	0.15	0.00	0.00
1.00	0.04	0.00	0.00	3.60	0.15	0.00	0.00
1.05	0.04	0.00	0.00	3.65	0.15	0.00	0.00
1.10	0.04	0.00	0.00	3.70	0.15	0.00	0.00
1.15	0.04	0.00	0.00	3.75	0.15	0.00	0.00
1.20	0.04	0.00	0.00	3.80	0.16	0.00	0.00
1.25	0.05	0.00	0.00	3.85	0.16	0.00	0.00
1.30	0.05	0.00	0.00	3.90	0.16	0.00	0.00
1.35	0.05	0.00	0.00	3.95	0.16	0.00	0.00
1.40	0.05	0.00	0.00	4.00	0.17	0.00	0.00
1.45	0.05	0.00	0.00	4.05	0.17	0.00	0.00
1.50	0.06	0.00	0.00	4.10	0.17	0.00	0.00
1.55	0.06	0.00	0.00	4.15	0.17	0.00	0.00
1.60	0.06	0.00	0.00	4.20	0.18	0.00	0.00
1.65	0.06	0.00	0.00	4.25	0.18	0.00	0.00
1.70	0.06	0.00	0.00	4.30	0.18	0.00	0.00
1.75	0.07	0.00	0.00	4.35	0.18	0.00	0.00
1.80	0.07	0.00	0.00	4.40	0.19	0.00	0.00
1.85	0.07	0.00	0.00	4.45	0.19	0.00	0.00
1.90	0.07	0.00	0.00	4.50	0.19	0.00	0.00
1.95	0.08	0.00	0.00	4.55	0.19	0.00	0.00
2.00	0.08	0.00	0.00	4.60	0.20	0.00	0.00
2.05	0.08	0.00	0.00	4.65	0.20	0.00	0.00
2.10	0.08	0.00	0.00	4.70	0.20	0.00	0.00
2.15	0.08	0.00	0.00	4.75	0.20	0.00	0.00
2.20	0.09	0.00	0.00	4.80	0.21	0.00	0.00
2.25	0.09	0.00	0.00	4.85	0.21	0.00	0.00
2.30	0.09	0.00	0.00	4.90	0.21	0.00	0.00
2.35	0.09	0.00	0.00	4.95	0.21	0.00	0.00
2.40	0.09	0.00	0.00	5.00	0.22	0.00	0.00
2.45	0.10	0.00	0.00	5.05	0.22	0.00	0.00
2.50	0.10	0.00	0.00	5.10	0.22	0.00	0.00
2.55	0.10	0.00	0.00	5.15	0.22	0.00	0.00

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.23	0.00	0.00	7.80	0.39	0.00	0.00
5.25	0.23	0.00	0.00	7.85	0.40	0.00	0.00
5.30	0.23	0.00	0.00	7.90	0.40	0.00	0.00
5.35	0.24	0.00	0.00	7.95	0.40	0.00	0.00
5.40	0.24	0.00	0.00	8.00	0.41	0.00	0.00
5.45	0.24	0.00	0.00	8.05	0.41	0.00	0.00
5.50	0.24	0.00	0.00	8.10	0.42	0.00	0.00
5.55	0.25	0.00	0.00	8.15	0.42	0.00	0.00
5.60	0.25	0.00	0.00	8.20	0.43	0.00	0.00
5.65	0.25	0.00	0.00	8.25	0.43	0.00	0.00
5.70	0.25	0.00	0.00	8.30	0.43	0.00	0.00
5.75	0.26	0.00	0.00	8.35	0.44	0.00	0.00
5.80	0.26	0.00	0.00	8.40	0.44	0.00	0.00
5.85	0.26	0.00	0.00	8.45	0.45	0.00	0.00
5.90	0.26	0.00	0.00	8.50	0.45	0.00	0.00
5.95	0.27	0.00	0.00	8.55	0.46	0.00	0.00
6.00	0.27	0.00	0.00	8.60	0.46	0.00	0.00
6.05	0.27	0.00	0.00	8.65	0.47	0.00	0.00
6.10	0.28	0.00	0.00	8.70	0.47	0.00	0.00
6.15	0.28	0.00	0.00	8.75	0.47	0.00	0.00
6.20	0.28	0.00	0.00	8.80	0.48	0.00	0.00
6.25	0.28	0.00	0.00	8.85	0.48	0.01	0.00
6.30	0.29	0.00	0.00	8.90	0.49	0.01	0.00
6.35	0.29	0.00	0.00	8.95	0.49	0.01	0.00
6.40	0.29	0.00	0.00	9.00	0.50	0.01	0.00
6.45	0.30	0.00	0.00	9.05	0.50	0.01	0.00
6.50	0.30	0.00	0.00	9.10	0.51	0.01	0.00
6.55	0.30	0.00	0.00	9.15	0.51	0.01	0.00
6.60	0.31	0.00	0.00	9.20	0.52	0.01	0.00
6.65	0.31	0.00	0.00	9.25	0.52	0.01	0.00
6.70	0.31	0.00	0.00	9.30	0.53	0.01	0.00
6.75	0.32	0.00	0.00	9.35	0.54	0.01	0.00
6.80	0.32	0.00	0.00	9.40	0.54	0.01	0.00
6.85	0.32	0.00	0.00	9.45	0.55	0.01	0.00
6.90	0.33	0.00	0.00	9.50	0.55	0.01	0.00
6.95	0.33	0.00	0.00	9.55	0.56	0.02	0.00
7.00	0.33	0.00	0.00	9.60	0.57	0.02	0.00
7.05	0.34	0.00	0.00	9.65	0.57	0.02	0.00
7.10	0.34	0.00	0.00	9.70	0.58	0.02	0.00
7.15	0.34	0.00	0.00	9.75	0.59	0.02	0.00
7.20	0.35	0.00	0.00	9.80	0.59	0.02	0.01
7.25	0.35	0.00	0.00	9.85	0.60	0.02	0.01
7.30	0.35	0.00	0.00	9.90	0.61	0.02	0.01
7.35	0.36	0.00	0.00	9.95	0.61	0.03	0.01
7.40	0.36	0.00	0.00	10.00	0.62	0.03	0.01
7.45	0.37	0.00	0.00	10.05	0.63	0.03	0.01
7.50	0.37	0.00	0.00	10.10	0.64	0.03	0.01
7.55	0.37	0.00	0.00	10.15	0.64	0.03	0.01
7.60	0.38	0.00	0.00	10.20	0.65	0.03	0.01
7.65	0.38	0.00	0.00	10.25	0.66	0.04	0.01
7.70	0.38	0.00	0.00	10.30	0.67	0.04	0.01
7.75	0.39	0.00	0.00	10.35	0.68	0.04	0.01

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.69	0.04	0.01	13.00	2.59	1.19	0.11
10.45	0.69	0.04	0.01	13.05	2.61	1.20	0.11
10.50	0.70	0.05	0.01	13.10	2.62	1.21	0.10
10.55	0.71	0.05	0.01	13.15	2.63	1.22	0.09
10.60	0.72	0.05	0.01	13.20	2.64	1.23	0.08
10.65	0.73	0.05	0.01	13.25	2.66	1.24	0.08
10.70	0.74	0.06	0.01	13.30	2.67	1.25	0.07
10.75	0.75	0.06	0.01	13.35	2.68	1.26	0.07
10.80	0.77	0.06	0.01	13.40	2.69	1.26	0.07
10.85	0.78	0.07	0.01	13.45	2.70	1.27	0.06
10.90	0.79	0.07	0.02	13.50	2.71	1.28	0.06
10.95	0.80	0.08	0.02	13.55	2.72	1.29	0.06
11.00	0.82	0.08	0.02	13.60	2.72	1.29	0.05
11.05	0.83	0.09	0.02	13.65	2.73	1.30	0.05
11.10	0.85	0.09	0.02	13.70	2.74	1.31	0.05
11.15	0.87	0.10	0.02	13.75	2.75	1.31	0.05
11.20	0.88	0.10	0.02	13.80	2.76	1.32	0.04
11.25	0.90	0.11	0.02	13.85	2.77	1.33	0.04
11.30	0.92	0.12	0.03	13.90	2.77	1.33	0.04
11.35	0.94	0.13	0.03	13.95	2.78	1.34	0.04
11.40	0.96	0.14	0.03	14.00	2.79	1.34	0.04
11.45	0.99	0.15	0.03	14.05	2.80	1.35	0.04
11.50	1.01	0.16	0.04	14.10	2.80	1.36	0.04
11.55	1.04	0.17	0.04	14.15	2.81	1.36	0.04
11.60	1.08	0.19	0.04	14.20	2.82	1.37	0.04
11.65	1.11	0.20	0.05	14.25	2.82	1.37	0.03
11.70	1.15	0.22	0.05	14.30	2.83	1.38	0.03
11.75	1.20	0.25	0.06	14.35	2.84	1.38	0.03
11.80	1.25	0.27	0.07	14.40	2.84	1.39	0.03
11.85	1.32	0.31	0.08	14.45	2.85	1.39	0.03
11.90	1.39	0.35	0.09	14.50	2.86	1.40	0.03
11.95	1.51	0.42	0.11	14.55	2.86	1.40	0.03
12.00	1.63	0.49	0.13	14.60	2.87	1.41	0.03
12.05	1.82	0.62	0.17	14.65	2.87	1.41	0.03
12.10	2.02	0.76	0.22	14.70	2.88	1.42	0.03
12.15	2.09	0.81	0.28	14.75	2.89	1.42	0.03
12.20	2.16	0.86	**0.33**	14.80	2.89	1.43	0.03
12.25	2.21	0.90	**0.35**	14.85	2.90	1.43	0.03
12.30	2.26	0.93	0.34	14.90	2.90	1.44	0.03
12.35	2.30	0.96	0.32	14.95	2.91	1.44	0.03
12.40	2.33	0.99	0.30	15.00	2.91	1.44	0.03
12.45	2.37	1.01	0.28	15.05	2.92	1.45	0.03
12.50	2.40	1.04	0.26	15.10	2.92	1.45	0.02
12.55	2.42	1.06	0.24	15.15	2.93	1.46	0.02
12.60	2.45	1.07	0.22	15.20	2.93	1.46	0.02
12.65	2.47	1.09	0.20	15.25	2.94	1.46	0.02
12.70	2.49	1.11	0.19	15.30	2.94	1.47	0.02
12.75	2.51	1.12	0.17	15.35	2.94	1.47	0.02
12.80	2.53	1.14	0.16	15.40	2.95	1.47	0.02
12.85	2.54	1.15	0.14	15.45	2.95	1.48	0.02
12.90	2.56	1.16	0.13	15.50	2.96	1.48	0.02
12.95	2.58	1.18	0.12	15.55	2.96	1.49	0.02

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	2.97	1.49	0.02	18.20	3.15	1.64	0.01
15.65	2.97	1.49	0.02	18.25	3.15	1.64	0.01
15.70	2.98	1.50	0.02	18.30	3.16	1.65	0.01
15.75	2.98	1.50	0.02	18.35	3.16	1.65	0.01
15.80	2.98	1.50	0.02	18.40	3.16	1.65	0.01
15.85	2.99	1.51	0.02	18.45	3.16	1.65	0.01
15.90	2.99	1.51	0.02	18.50	3.17	1.65	0.01
15.95	3.00	1.51	0.02	18.55	3.17	1.66	0.01
16.00	3.00	1.52	0.02	18.60	3.17	1.66	0.01
16.05	3.01	1.52	0.02	18.65	3.17	1.66	0.01
16.10	3.01	1.52	0.02	18.70	3.18	1.66	0.01
16.15	3.01	1.53	0.02	18.75	3.18	1.67	0.01
16.20	3.02	1.53	0.02	18.80	3.18	1.67	0.01
16.25	3.02	1.53	0.02	18.85	3.19	1.67	0.01
16.30	3.03	1.54	0.02	18.90	3.19	1.67	0.01
16.35	3.03	1.54	0.02	18.95	3.19	1.67	0.01
16.40	3.03	1.54	0.02	19.00	3.19	1.68	0.01
16.45	3.04	1.55	0.02	19.05	3.20	1.68	0.01
16.50	3.04	1.55	0.02	19.10	3.20	1.68	0.01
16.55	3.04	1.55	0.02	19.15	3.20	1.68	0.01
16.60	3.05	1.56	0.02	19.20	3.20	1.69	0.01
16.65	3.05	1.56	0.02	19.25	3.21	1.69	0.01
16.70	3.06	1.56	0.02	19.30	3.21	1.69	0.01
16.75	3.06	1.57	0.02	19.35	3.21	1.69	0.01
16.80	3.06	1.57	0.02	19.40	3.21	1.69	0.01
16.85	3.07	1.57	0.02	19.45	3.22	1.70	0.01
16.90	3.07	1.57	0.02	19.50	3.22	1.70	0.01
16.95	3.07	1.58	0.02	19.55	3.22	1.70	0.01
17.00	3.08	1.58	0.02	19.60	3.22	1.70	0.01
17.05	3.08	1.58	0.02	19.65	3.23	1.70	0.01
17.10	3.08	1.59	0.02	19.70	3.23	1.71	0.01
17.15	3.09	1.59	0.02	19.75	3.23	1.71	0.01
17.20	3.09	1.59	0.02	19.80	3.23	1.71	0.01
17.25	3.09	1.59	0.02	19.85	3.24	1.71	0.01
17.30	3.10	1.60	0.02	19.90	3.24	1.71	0.01
17.35	3.10	1.60	0.02	19.95	3.24	1.72	0.01
17.40	3.10	1.60	0.02	20.00	3.24	1.72	0.01
17.45	3.11	1.60	0.02	20.05	3.25	1.72	0.01
17.50	3.11	1.61	0.02	20.10	3.25	1.72	0.01
17.55	3.11	1.61	0.02	20.15	3.25	1.72	0.01
17.60	3.12	1.61	0.01	20.20	3.25	1.73	0.01
17.65	3.12	1.62	0.01	20.25	3.26	1.73	0.01
17.70	3.12	1.62	0.01	20.30	3.26	1.73	0.01
17.75	3.13	1.62	0.01	20.35	3.26	1.73	0.01
17.80	3.13	1.62	0.01	20.40	3.26	1.73	0.01
17.85	3.13	1.62	0.01	20.45	3.26	1.74	0.01
17.90	3.13	1.63	0.01	20.50	3.27	1.74	0.01
17.95	3.14	1.63	0.01	20.55	3.27	1.74	0.01
18.00	3.14	1.63	0.01	20.60	3.27	1.74	0.01
18.05	3.14	1.63	0.01	20.65	3.27	1.74	0.01
18.10	3.15	1.64	0.01	20.70	3.28	1.75	0.01
18.15	3.15	1.64	0.01	20.75	3.28	1.75	0.01

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.28	1.75	0.01	23.40	3.39	1.84	0.01
20.85	3.28	1.75	0.01	23.45	3.39	1.84	0.01
20.90	3.29	1.75	0.01	23.50	3.39	1.84	0.01
20.95	3.29	1.76	0.01	23.55	3.39	1.85	0.01
21.00	3.29	1.76	0.01	23.60	3.39	1.85	0.01
21.05	3.29	1.76	0.01	23.65	3.40	1.85	0.01
21.10	3.29	1.76	0.01	23.70	3.40	1.85	0.01
21.15	3.30	1.76	0.01	23.75	3.40	1.85	0.01
21.20	3.30	1.77	0.01	23.80	3.40	1.85	0.01
21.25	3.30	1.77	0.01	23.85	3.40	1.85	0.01
21.30	3.30	1.77	0.01	23.90	3.41	1.86	0.01
21.35	3.31	1.77	0.01	23.95	3.41	1.86	0.01
21.40	3.31	1.77	0.01	24.00	**3.41**	**1.86**	0.01
21.45	3.31	1.77	0.01				
21.50	3.31	1.78	0.01				
21.55	3.31	1.78	0.01				
21.60	3.32	1.78	0.01				
21.65	3.32	1.78	0.01				
21.70	3.32	1.78	0.01				
21.75	3.32	1.79	0.01				
21.80	3.32	1.79	0.01				
21.85	3.33	1.79	0.01				
21.90	3.33	1.79	0.01				
21.95	3.33	1.79	0.01				
22.00	3.33	1.79	0.01				
22.05	3.33	1.80	0.01				
22.10	3.34	1.80	0.01				
22.15	3.34	1.80	0.01				
22.20	3.34	1.80	0.01				
22.25	3.34	1.80	0.01				
22.30	3.35	1.80	0.01				
22.35	3.35	1.81	0.01				
22.40	3.35	1.81	0.01				
22.45	3.35	1.81	0.01				
22.50	3.35	1.81	0.01				
22.55	3.36	1.81	0.01				
22.60	3.36	1.81	0.01				
22.65	3.36	1.82	0.01				
22.70	3.36	1.82	0.01				
22.75	3.36	1.82	0.01				
22.80	3.37	1.82	0.01				
22.85	3.37	1.82	0.01				
22.90	3.37	1.82	0.01				
22.95	3.37	1.83	0.01				
23.00	3.37	1.83	0.01				
23.05	3.37	1.83	0.01				
23.10	3.38	1.83	0.01				
23.15	3.38	1.83	0.01				
23.20	3.38	1.83	0.01				
23.25	3.38	1.84	0.01				
23.30	3.38	1.84	0.01				
23.35	3.39	1.84	0.01				

Summary for Subcatchment PDA1B IMP: PDA1B IMP

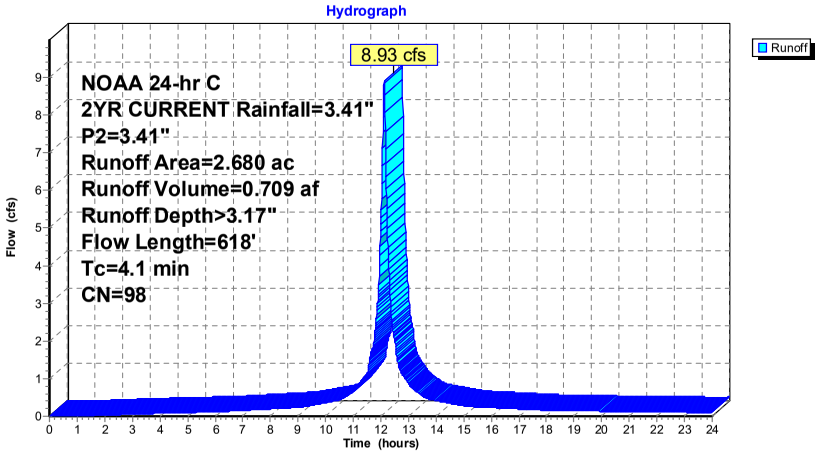
Runoff = 8.93 cfs @ 12.12 hrs, Volume= 0.709 af, Depth> 3.17"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR CURRENT Rainfall=3.41", P2=3.41"

	Area (ac)	CN	Description
	0.100	96	Gravel surface, HSG A
	0.070	96	Gravel surface, HSG D
*	0.190	98	Impervious vehicular
	2.210	98	Roofs, HSG D
*	0.110	98	Impervious non vehicular, HSG D
	2.680	98	Weighted Average
	0.170		6.34% Pervious Area
	2.510		93.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	8	0.0100	0.65		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.1	16	0.0150	1.84		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.9	93	0.0011	1.71	3.02	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
4.1	618	Total			

Subcatchment PDA1B IMP: PDA1B IMP



Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.10	0.01	0.05
0.05	0.00	0.00	0.00	2.65	0.10	0.02	0.05
0.10	0.00	0.00	0.00	2.70	0.11	0.02	0.05
0.15	0.01	0.00	0.00	2.75	0.11	0.02	0.05
0.20	0.01	0.00	0.00	2.80	0.11	0.02	0.05
0.25	0.01	0.00	0.00	2.85	0.11	0.02	0.05
0.30	0.01	0.00	0.00	2.90	0.12	0.02	0.05
0.35	0.01	0.00	0.00	2.95	0.12	0.02	0.05
0.40	0.02	0.00	0.00	3.00	0.12	0.02	0.06
0.45	0.02	0.00	0.00	3.05	0.12	0.02	0.06
0.50	0.02	0.00	0.00	3.10	0.12	0.02	0.06
0.55	0.02	0.00	0.00	3.15	0.13	0.03	0.06
0.60	0.02	0.00	0.00	3.20	0.13	0.03	0.06
0.65	0.02	0.00	0.00	3.25	0.13	0.03	0.06
0.70	0.03	0.00	0.00	3.30	0.13	0.03	0.06
0.75	0.03	0.00	0.00	3.35	0.14	0.03	0.06
0.80	0.03	0.00	0.00	3.40	0.14	0.03	0.07
0.85	0.03	0.00	0.00	3.45	0.14	0.03	0.07
0.90	0.03	0.00	0.00	3.50	0.14	0.03	0.07
0.95	0.04	0.00	0.00	3.55	0.15	0.04	0.07
1.00	0.04	0.00	0.00	3.60	0.15	0.04	0.07
1.05	0.04	0.00	0.00	3.65	0.15	0.04	0.07
1.10	0.04	0.00	0.00	3.70	0.15	0.04	0.07
1.15	0.04	0.00	0.00	3.75	0.15	0.04	0.07
1.20	0.04	0.00	0.00	3.80	0.16	0.04	0.07
1.25	0.05	0.00	0.00	3.85	0.16	0.04	0.08
1.30	0.05	0.00	0.00	3.90	0.16	0.05	0.08
1.35	0.05	0.00	0.01	3.95	0.16	0.05	0.08
1.40	0.05	0.00	0.01	4.00	0.17	0.05	0.08
1.45	0.05	0.00	0.01	4.05	0.17	0.05	0.08
1.50	0.06	0.00	0.01	4.10	0.17	0.05	0.08
1.55	0.06	0.00	0.01	4.15	0.17	0.05	0.08
1.60	0.06	0.00	0.01	4.20	0.18	0.05	0.08
1.65	0.06	0.00	0.02	4.25	0.18	0.06	0.08
1.70	0.06	0.00	0.02	4.30	0.18	0.06	0.08
1.75	0.07	0.00	0.02	4.35	0.18	0.06	0.09
1.80	0.07	0.00	0.02	4.40	0.19	0.06	0.09
1.85	0.07	0.00	0.02	4.45	0.19	0.06	0.09
1.90	0.07	0.00	0.02	4.50	0.19	0.06	0.09
1.95	0.08	0.00	0.03	4.55	0.19	0.07	0.09
2.00	0.08	0.01	0.03	4.60	0.20	0.07	0.09
2.05	0.08	0.01	0.03	4.65	0.20	0.07	0.09
2.10	0.08	0.01	0.03	4.70	0.20	0.07	0.09
2.15	0.08	0.01	0.03	4.75	0.20	0.07	0.09
2.20	0.09	0.01	0.03	4.80	0.21	0.07	0.09
2.25	0.09	0.01	0.04	4.85	0.21	0.08	0.09
2.30	0.09	0.01	0.04	4.90	0.21	0.08	0.10
2.35	0.09	0.01	0.04	4.95	0.21	0.08	0.10
2.40	0.09	0.01	0.04	5.00	0.22	0.08	0.10
2.45	0.10	0.01	0.04	5.05	0.22	0.08	0.10
2.50	0.10	0.01	0.04	5.10	0.22	0.09	0.10
2.55	0.10	0.01	0.04	5.15	0.22	0.09	0.10

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.23	0.09	0.10	7.80	0.39	0.22	0.18
5.25	0.23	0.09	0.10	7.85	0.40	0.23	0.18
5.30	0.23	0.09	0.10	7.90	0.40	0.23	0.19
5.35	0.24	0.09	0.10	7.95	0.40	0.23	0.19
5.40	0.24	0.10	0.10	8.00	0.41	0.24	0.19
5.45	0.24	0.10	0.11	8.05	0.41	0.24	0.19
5.50	0.24	0.10	0.11	8.10	0.42	0.24	0.19
5.55	0.25	0.10	0.11	8.15	0.42	0.25	0.20
5.60	0.25	0.10	0.11	8.20	0.43	0.25	0.20
5.65	0.25	0.11	0.11	8.25	0.43	0.26	0.20
5.70	0.25	0.11	0.11	8.30	0.43	0.26	0.20
5.75	0.26	0.11	0.11	8.35	0.44	0.26	0.20
5.80	0.26	0.11	0.11	8.40	0.44	0.27	0.21
5.85	0.26	0.12	0.11	8.45	0.45	0.27	0.21
5.90	0.26	0.12	0.11	8.50	0.45	0.27	0.21
5.95	0.27	0.12	0.11	8.55	0.46	0.28	0.21
6.00	0.27	0.12	0.11	8.60	0.46	0.28	0.21
6.05	0.27	0.12	0.12	8.65	0.47	0.29	0.22
6.10	0.28	0.13	0.12	8.70	0.47	0.29	0.22
6.15	0.28	0.13	0.12	8.75	0.47	0.29	0.22
6.20	0.28	0.13	0.12	8.80	0.48	0.30	0.22
6.25	0.28	0.13	0.12	8.85	0.48	0.30	0.22
6.30	0.29	0.14	0.12	8.90	0.49	0.31	0.23
6.35	0.29	0.14	0.13	8.95	0.49	0.31	0.23
6.40	0.29	0.14	0.13	9.00	0.50	0.32	0.23
6.45	0.30	0.14	0.13	9.05	0.50	0.32	0.24
6.50	0.30	0.14	0.13	9.10	0.51	0.33	0.24
6.55	0.30	0.15	0.13	9.15	0.51	0.33	0.25
6.60	0.31	0.15	0.14	9.20	0.52	0.33	0.25
6.65	0.31	0.15	0.14	9.25	0.52	0.34	0.26
6.70	0.31	0.16	0.14	9.30	0.53	0.34	0.27
6.75	0.32	0.16	0.14	9.35	0.54	0.35	0.27
6.80	0.32	0.16	0.14	9.40	0.54	0.36	0.28
6.85	0.32	0.16	0.14	9.45	0.55	0.36	0.29
6.90	0.33	0.17	0.15	9.50	0.55	0.37	0.29
6.95	0.33	0.17	0.15	9.55	0.56	0.37	0.30
7.00	0.33	0.17	0.15	9.60	0.57	0.38	0.31
7.05	0.34	0.17	0.15	9.65	0.57	0.38	0.31
7.10	0.34	0.18	0.16	9.70	0.58	0.39	0.32
7.15	0.34	0.18	0.16	9.75	0.59	0.40	0.33
7.20	0.35	0.18	0.16	9.80	0.59	0.40	0.33
7.25	0.35	0.19	0.16	9.85	0.60	0.41	0.34
7.30	0.35	0.19	0.16	9.90	0.61	0.42	0.35
7.35	0.36	0.19	0.16	9.95	0.61	0.42	0.35
7.40	0.36	0.20	0.17	10.00	0.62	0.43	0.36
7.45	0.37	0.20	0.17	10.05	0.63	0.44	0.37
7.50	0.37	0.20	0.17	10.10	0.64	0.44	0.38
7.55	0.37	0.21	0.17	10.15	0.64	0.45	0.38
7.60	0.38	0.21	0.17	10.20	0.65	0.46	0.39
7.65	0.38	0.21	0.18	10.25	0.66	0.47	0.40
7.70	0.38	0.22	0.18	10.30	0.67	0.47	0.40
7.75	0.39	0.22	0.18	10.35	0.68	0.48	0.41

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.69	0.49	0.42	13.00	2.59	2.36	0.88
10.45	0.69	0.50	0.42	13.05	2.61	2.38	0.83
10.50	0.70	0.51	0.43	13.10	2.62	2.39	0.78
10.55	0.71	0.52	0.45	13.15	2.63	2.40	0.74
10.60	0.72	0.52	0.47	13.20	2.64	2.41	0.71
10.65	0.73	0.53	0.49	13.25	2.66	2.43	0.68
10.70	0.74	0.54	0.51	13.30	2.67	2.44	0.65
10.75	0.75	0.56	0.54	13.35	2.68	2.45	0.62
10.80	0.77	0.57	0.57	13.40	2.69	2.46	0.60
10.85	0.78	0.58	0.59	13.45	2.70	2.47	0.57
10.90	0.79	0.59	0.62	13.50	2.71	2.48	0.54
10.95	0.80	0.60	0.64	13.55	2.72	2.49	0.52
11.00	0.82	0.62	0.67	13.60	2.72	2.49	0.49
11.05	0.83	0.63	0.71	13.65	2.73	2.50	0.47
11.10	0.85	0.65	0.75	13.70	2.74	2.51	0.46
11.15	0.87	0.66	0.79	13.75	2.75	2.52	0.45
11.20	0.88	0.68	0.84	13.80	2.76	2.53	0.44
11.25	0.90	0.70	0.89	13.85	2.77	2.53	0.44
11.30	0.92	0.71	0.94	13.90	2.77	2.54	0.43
11.35	0.94	0.74	0.99	13.95	2.78	2.55	0.42
11.40	0.96	0.76	1.04	14.00	2.79	2.56	0.42
11.45	0.99	0.78	1.08	14.05	2.80	2.56	0.41
11.50	1.01	0.80	1.12	14.10	2.80	2.57	0.40
11.55	1.04	0.83	1.28	14.15	2.81	2.58	0.40
11.60	1.08	0.87	1.53	14.20	2.82	2.59	0.39
11.65	1.11	0.90	1.69	14.25	2.82	2.59	0.38
11.70	1.15	0.94	1.80	14.30	2.83	2.60	0.37
11.75	1.20	0.98	2.01	14.35	2.84	2.61	0.37
11.80	1.25	1.03	2.31	14.40	2.84	2.61	0.36
11.85	1.32	1.10	2.69	14.45	2.85	2.62	0.35
11.90	1.39	1.17	3.16	14.50	2.86	2.63	0.35
11.95	1.51	1.29	3.99	14.55	2.86	2.63	0.34
12.00	1.63	1.40	5.11	14.60	2.87	2.64	0.33
12.05	1.82	1.60	6.65	14.65	2.87	2.64	0.33
12.10	2.02	1.80	**8.56**	14.70	2.88	2.65	0.32
12.15	2.09	1.87	**8.06**	14.75	2.89	2.65	0.31
12.20	2.16	1.93	6.05	14.80	2.89	2.66	0.31
12.25	2.21	1.98	4.73	14.85	2.90	2.67	0.30
12.30	2.26	2.03	3.75	14.90	2.90	2.67	0.29
12.35	2.30	2.07	3.04	14.95	2.91	2.68	0.29
12.40	2.33	2.11	2.48	15.00	2.91	2.68	0.28
12.45	2.37	2.14	2.19	15.05	2.92	2.69	0.27
12.50	2.40	2.17	2.01	15.10	2.92	2.69	0.26
12.55	2.42	2.20	1.77	15.15	2.93	2.69	0.26
12.60	2.45	2.22	1.49	15.20	2.93	2.70	0.26
12.65	2.47	2.24	1.33	15.25	2.94	2.70	0.25
12.70	2.49	2.26	1.23	15.30	2.94	2.71	0.25
12.75	2.51	2.28	1.15	15.35	2.94	2.71	0.25
12.80	2.53	2.30	1.08	15.40	2.95	2.72	0.25
12.85	2.54	2.31	1.03	15.45	2.95	2.72	0.25
12.90	2.56	2.33	0.98	15.50	2.96	2.73	0.24
12.95	2.58	2.35	0.93	15.55	2.96	2.73	0.24

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	2.97	2.74	0.24	18.20	3.15	2.92	0.15
15.65	2.97	2.74	0.24	18.25	3.15	2.92	0.15
15.70	2.98	2.74	0.24	18.30	3.16	2.92	0.15
15.75	2.98	2.75	0.24	18.35	3.16	2.93	0.15
15.80	2.98	2.75	0.23	18.40	3.16	2.93	0.15
15.85	2.99	2.76	0.23	18.45	3.16	2.93	0.15
15.90	2.99	2.76	0.23	18.50	3.17	2.93	0.14
15.95	3.00	2.77	0.23	18.55	3.17	2.94	0.14
16.00	3.00	2.77	0.23	18.60	3.17	2.94	0.14
16.05	3.01	2.77	0.22	18.65	3.17	2.94	0.14
16.10	3.01	2.78	0.22	18.70	3.18	2.95	0.14
16.15	3.01	2.78	0.22	18.75	3.18	2.95	0.14
16.20	3.02	2.79	0.22	18.80	3.18	2.95	0.14
16.25	3.02	2.79	0.22	18.85	3.19	2.95	0.14
16.30	3.03	2.79	0.22	18.90	3.19	2.96	0.14
16.35	3.03	2.80	0.21	18.95	3.19	2.96	0.14
16.40	3.03	2.80	0.21	19.00	3.19	2.96	0.14
16.45	3.04	2.81	0.21	19.05	3.20	2.96	0.14
16.50	3.04	2.81	0.21	19.10	3.20	2.97	0.14
16.55	3.04	2.81	0.21	19.15	3.20	2.97	0.14
16.60	3.05	2.82	0.20	19.20	3.20	2.97	0.14
16.65	3.05	2.82	0.20	19.25	3.21	2.97	0.14
16.70	3.06	2.82	0.20	19.30	3.21	2.98	0.14
16.75	3.06	2.83	0.20	19.35	3.21	2.98	0.14
16.80	3.06	2.83	0.20	19.40	3.21	2.98	0.14
16.85	3.07	2.83	0.20	19.45	3.22	2.98	0.14
16.90	3.07	2.84	0.19	19.50	3.22	2.99	0.14
16.95	3.07	2.84	0.19	19.55	3.22	2.99	0.14
17.00	3.08	2.85	0.19	19.60	3.22	2.99	0.13
17.05	3.08	2.85	0.19	19.65	3.23	2.99	0.13
17.10	3.08	2.85	0.19	19.70	3.23	3.00	0.13
17.15	3.09	2.86	0.18	19.75	3.23	3.00	0.13
17.20	3.09	2.86	0.18	19.80	3.23	3.00	0.13
17.25	3.09	2.86	0.18	19.85	3.24	3.00	0.13
17.30	3.10	2.87	0.18	19.90	3.24	3.01	0.13
17.35	3.10	2.87	0.18	19.95	3.24	3.01	0.13
17.40	3.10	2.87	0.18	20.00	3.24	3.01	0.13
17.45	3.11	2.87	0.17	20.05	3.25	3.01	0.13
17.50	3.11	2.88	0.17	20.10	3.25	3.02	0.13
17.55	3.11	2.88	0.17	20.15	3.25	3.02	0.13
17.60	3.12	2.88	0.17	20.20	3.25	3.02	0.13
17.65	3.12	2.89	0.17	20.25	3.26	3.02	0.13
17.70	3.12	2.89	0.16	20.30	3.26	3.02	0.13
17.75	3.13	2.89	0.16	20.35	3.26	3.03	0.13
17.80	3.13	2.90	0.16	20.40	3.26	3.03	0.13
17.85	3.13	2.90	0.16	20.45	3.26	3.03	0.13
17.90	3.13	2.90	0.16	20.50	3.27	3.03	0.13
17.95	3.14	2.90	0.16	20.55	3.27	3.04	0.13
18.00	3.14	2.91	0.15	20.60	3.27	3.04	0.13
18.05	3.14	2.91	0.15	20.65	3.27	3.04	0.13
18.10	3.15	2.91	0.15	20.70	3.28	3.04	0.12
18.15	3.15	2.92	0.15	20.75	3.28	3.05	0.12

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.28	3.05	0.12	23.40	3.39	3.15	0.10
20.85	3.28	3.05	0.12	23.45	3.39	3.16	0.10
20.90	3.29	3.05	0.12	23.50	3.39	3.16	0.10
20.95	3.29	3.05	0.12	23.55	3.39	3.16	0.10
21.00	3.29	3.06	0.12	23.60	3.39	3.16	0.10
21.05	3.29	3.06	0.12	23.65	3.40	3.16	0.10
21.10	3.29	3.06	0.12	23.70	3.40	3.17	0.10
21.15	3.30	3.06	0.12	23.75	3.40	3.17	0.10
21.20	3.30	3.07	0.12	23.80	3.40	3.17	0.10
21.25	3.30	3.07	0.12	23.85	3.40	3.17	0.10
21.30	3.30	3.07	0.12	23.90	3.41	3.17	0.10
21.35	3.31	3.07	0.12	23.95	3.41	3.17	0.10
21.40	3.31	3.07	0.12	24.00	**3.41**	**3.18**	0.11
21.45	3.31	3.08	0.12				
21.50	3.31	3.08	0.12				
21.55	3.31	3.08	0.12				
21.60	3.32	3.08	0.12				
21.65	3.32	3.09	0.12				
21.70	3.32	3.09	0.12				
21.75	3.32	3.09	0.12				
21.80	3.32	3.09	0.11				
21.85	3.33	3.09	0.11				
21.90	3.33	3.10	0.11				
21.95	3.33	3.10	0.11				
22.00	3.33	3.10	0.11				
22.05	3.33	3.10	0.11				
22.10	3.34	3.10	0.11				
22.15	3.34	3.11	0.11				
22.20	3.34	3.11	0.11				
22.25	3.34	3.11	0.11				
22.30	3.35	3.11	0.11				
22.35	3.35	3.11	0.11				
22.40	3.35	3.12	0.11				
22.45	3.35	3.12	0.11				
22.50	3.35	3.12	0.11				
22.55	3.36	3.12	0.11				
22.60	3.36	3.12	0.11				
22.65	3.36	3.13	0.11				
22.70	3.36	3.13	0.11				
22.75	3.36	3.13	0.11				
22.80	3.37	3.13	0.11				
22.85	3.37	3.13	0.10				
22.90	3.37	3.14	0.10				
22.95	3.37	3.14	0.10				
23.00	3.37	3.14	0.10				
23.05	3.37	3.14	0.10				
23.10	3.38	3.14	0.10				
23.15	3.38	3.15	0.10				
23.20	3.38	3.15	0.10				
23.25	3.38	3.15	0.10				
23.30	3.38	3.15	0.10				
23.35	3.39	3.15	0.10				

Summary for Subcatchment PDA1B PERV: PDA-1B PERV

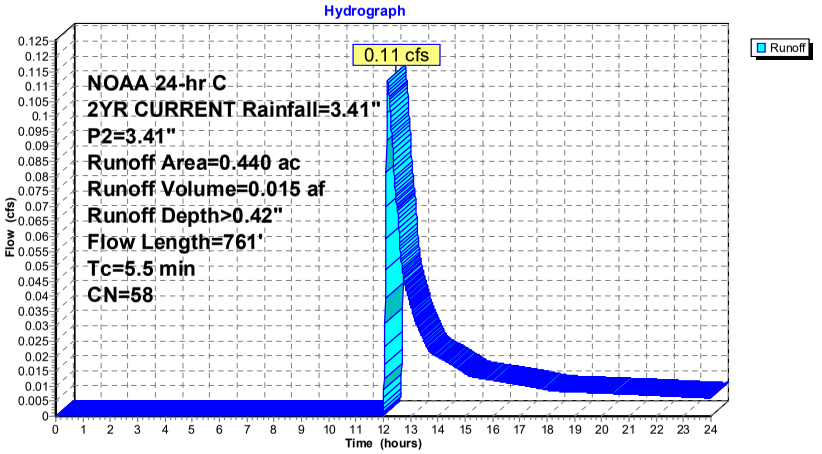
Runoff = 0.11 cfs @ 12.16 hrs, Volume= 0.015 af, Depth> 0.42"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR CURRENT Rainfall=3.41", P2=3.41"

	Area (ac)	CN	Description
	0.250	39	>75% Grass cover, Good, HSG A
*	0.190	84	>75% Grass cover, Good, HSG D
	0.440	58	Weighted Average
	0.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	93	0.0100	1.06		**Sheet Flow, Grass** Smooth surfaces n= 0.011 P2= 3.41"
0.8	74	0.0100	1.50		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.3	93	0.0110	5.40	9.55	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
5.5	761	Total			

Subcatchment PDA1B PERV: PDA-1B PERV



Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.10	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.10	0.00	0.00
0.10	0.00	0.00	0.00	2.70	0.11	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.11	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.11	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.11	0.00	0.00
0.30	0.01	0.00	0.00	2.90	0.12	0.00	0.00
0.35	0.01	0.00	0.00	2.95	0.12	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.12	0.00	0.00
0.45	0.02	0.00	0.00	3.05	0.12	0.00	0.00
0.50	0.02	0.00	0.00	3.10	0.12	0.00	0.00
0.55	0.02	0.00	0.00	3.15	0.13	0.00	0.00
0.60	0.02	0.00	0.00	3.20	0.13	0.00	0.00
0.65	0.02	0.00	0.00	3.25	0.13	0.00	0.00
0.70	0.03	0.00	0.00	3.30	0.13	0.00	0.00
0.75	0.03	0.00	0.00	3.35	0.14	0.00	0.00
0.80	0.03	0.00	0.00	3.40	0.14	0.00	0.00
0.85	0.03	0.00	0.00	3.45	0.14	0.00	0.00
0.90	0.03	0.00	0.00	3.50	0.14	0.00	0.00
0.95	0.04	0.00	0.00	3.55	0.15	0.00	0.00
1.00	0.04	0.00	0.00	3.60	0.15	0.00	0.00
1.05	0.04	0.00	0.00	3.65	0.15	0.00	0.00
1.10	0.04	0.00	0.00	3.70	0.15	0.00	0.00
1.15	0.04	0.00	0.00	3.75	0.15	0.00	0.00
1.20	0.04	0.00	0.00	3.80	0.16	0.00	0.00
1.25	0.05	0.00	0.00	3.85	0.16	0.00	0.00
1.30	0.05	0.00	0.00	3.90	0.16	0.00	0.00
1.35	0.05	0.00	0.00	3.95	0.16	0.00	0.00
1.40	0.05	0.00	0.00	4.00	0.17	0.00	0.00
1.45	0.05	0.00	0.00	4.05	0.17	0.00	0.00
1.50	0.06	0.00	0.00	4.10	0.17	0.00	0.00
1.55	0.06	0.00	0.00	4.15	0.17	0.00	0.00
1.60	0.06	0.00	0.00	4.20	0.18	0.00	0.00
1.65	0.06	0.00	0.00	4.25	0.18	0.00	0.00
1.70	0.06	0.00	0.00	4.30	0.18	0.00	0.00
1.75	0.07	0.00	0.00	4.35	0.18	0.00	0.00
1.80	0.07	0.00	0.00	4.40	0.19	0.00	0.00
1.85	0.07	0.00	0.00	4.45	0.19	0.00	0.00
1.90	0.07	0.00	0.00	4.50	0.19	0.00	0.00
1.95	0.08	0.00	0.00	4.55	0.19	0.00	0.00
2.00	0.08	0.00	0.00	4.60	0.20	0.00	0.00
2.05	0.08	0.00	0.00	4.65	0.20	0.00	0.00
2.10	0.08	0.00	0.00	4.70	0.20	0.00	0.00
2.15	0.08	0.00	0.00	4.75	0.20	0.00	0.00
2.20	0.09	0.00	0.00	4.80	0.21	0.00	0.00
2.25	0.09	0.00	0.00	4.85	0.21	0.00	0.00
2.30	0.09	0.00	0.00	4.90	0.21	0.00	0.00
2.35	0.09	0.00	0.00	4.95	0.21	0.00	0.00
2.40	0.09	0.00	0.00	5.00	0.22	0.00	0.00
2.45	0.10	0.00	0.00	5.05	0.22	0.00	0.00
2.50	0.10	0.00	0.00	5.10	0.22	0.00	0.00
2.55	0.10	0.00	0.00	5.15	0.22	0.00	0.00

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.23	0.00	0.00	7.80	0.39	0.00	0.00
5.25	0.23	0.00	0.00	7.85	0.40	0.00	0.00
5.30	0.23	0.00	0.00	7.90	0.40	0.00	0.00
5.35	0.24	0.00	0.00	7.95	0.40	0.00	0.00
5.40	0.24	0.00	0.00	8.00	0.41	0.00	0.00
5.45	0.24	0.00	0.00	8.05	0.41	0.00	0.00
5.50	0.24	0.00	0.00	8.10	0.42	0.00	0.00
5.55	0.25	0.00	0.00	8.15	0.42	0.00	0.00
5.60	0.25	0.00	0.00	8.20	0.43	0.00	0.00
5.65	0.25	0.00	0.00	8.25	0.43	0.00	0.00
5.70	0.25	0.00	0.00	8.30	0.43	0.00	0.00
5.75	0.26	0.00	0.00	8.35	0.44	0.00	0.00
5.80	0.26	0.00	0.00	8.40	0.44	0.00	0.00
5.85	0.26	0.00	0.00	8.45	0.45	0.00	0.00
5.90	0.26	0.00	0.00	8.50	0.45	0.00	0.00
5.95	0.27	0.00	0.00	8.55	0.46	0.00	0.00
6.00	0.27	0.00	0.00	8.60	0.46	0.00	0.00
6.05	0.27	0.00	0.00	8.65	0.47	0.00	0.00
6.10	0.28	0.00	0.00	8.70	0.47	0.00	0.00
6.15	0.28	0.00	0.00	8.75	0.47	0.00	0.00
6.20	0.28	0.00	0.00	8.80	0.48	0.00	0.00
6.25	0.28	0.00	0.00	8.85	0.48	0.00	0.00
6.30	0.29	0.00	0.00	8.90	0.49	0.00	0.00
6.35	0.29	0.00	0.00	8.95	0.49	0.00	0.00
6.40	0.29	0.00	0.00	9.00	0.50	0.00	0.00
6.45	0.30	0.00	0.00	9.05	0.50	0.00	0.00
6.50	0.30	0.00	0.00	9.10	0.51	0.00	0.00
6.55	0.30	0.00	0.00	9.15	0.51	0.00	0.00
6.60	0.31	0.00	0.00	9.20	0.52	0.00	0.00
6.65	0.31	0.00	0.00	9.25	0.52	0.00	0.00
6.70	0.31	0.00	0.00	9.30	0.53	0.00	0.00
6.75	0.32	0.00	0.00	9.35	0.54	0.00	0.00
6.80	0.32	0.00	0.00	9.40	0.54	0.00	0.00
6.85	0.32	0.00	0.00	9.45	0.55	0.00	0.00
6.90	0.33	0.00	0.00	9.50	0.55	0.00	0.00
6.95	0.33	0.00	0.00	9.55	0.56	0.00	0.00
7.00	0.33	0.00	0.00	9.60	0.57	0.00	0.00
7.05	0.34	0.00	0.00	9.65	0.57	0.00	0.00
7.10	0.34	0.00	0.00	9.70	0.58	0.00	0.00
7.15	0.34	0.00	0.00	9.75	0.59	0.00	0.00
7.20	0.35	0.00	0.00	9.80	0.59	0.00	0.00
7.25	0.35	0.00	0.00	9.85	0.60	0.00	0.00
7.30	0.35	0.00	0.00	9.90	0.61	0.00	0.00
7.35	0.36	0.00	0.00	9.95	0.61	0.00	0.00
7.40	0.36	0.00	0.00	10.00	0.62	0.00	0.00
7.45	0.37	0.00	0.00	10.05	0.63	0.00	0.00
7.50	0.37	0.00	0.00	10.10	0.64	0.00	0.00
7.55	0.37	0.00	0.00	10.15	0.64	0.00	0.00
7.60	0.38	0.00	0.00	10.20	0.65	0.00	0.00
7.65	0.38	0.00	0.00	10.25	0.66	0.00	0.00
7.70	0.38	0.00	0.00	10.30	0.67	0.00	0.00
7.75	0.39	0.00	0.00	10.35	0.68	0.00	0.00

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.69	0.00	0.00	13.00	2.59	0.16	0.04
10.45	0.69	0.00	0.00	13.05	2.61	0.16	0.04
10.50	0.70	0.00	0.00	13.10	2.62	0.16	0.03
10.55	0.71	0.00	0.00	13.15	2.63	0.17	0.03
10.60	0.72	0.00	0.00	13.20	2.64	0.17	0.03
10.65	0.73	0.00	0.00	13.25	2.66	0.17	0.03
10.70	0.74	0.00	0.00	13.30	2.67	0.18	0.03
10.75	0.75	0.00	0.00	13.35	2.68	0.18	0.03
10.80	0.77	0.00	0.00	13.40	2.69	0.18	0.03
10.85	0.78	0.00	0.00	13.45	2.70	0.18	0.03
10.90	0.79	0.00	0.00	13.50	2.71	0.19	0.02
10.95	0.80	0.00	0.00	13.55	2.72	0.19	0.02
11.00	0.82	0.00	0.00	13.60	2.72	0.19	0.02
11.05	0.83	0.00	0.00	13.65	2.73	0.19	0.02
11.10	0.85	0.00	0.00	13.70	2.74	0.20	0.02
11.15	0.87	0.00	0.00	13.75	2.75	0.20	0.02
11.20	0.88	0.00	0.00	13.80	2.76	0.20	0.02
11.25	0.90	0.00	0.00	13.85	2.77	0.20	0.02
11.30	0.92	0.00	0.00	13.90	2.77	0.20	0.02
11.35	0.94	0.00	0.00	13.95	2.78	0.21	0.02
11.40	0.96	0.00	0.00	14.00	2.79	0.21	0.02
11.45	0.99	0.00	0.00	14.05	2.80	0.21	0.02
11.50	1.01	0.00	0.00	14.10	2.80	0.21	0.02
11.55	1.04	0.00	0.00	14.15	2.81	0.22	0.02
11.60	1.08	0.00	0.00	14.20	2.82	0.22	0.02
11.65	1.11	0.00	0.00	14.25	2.82	0.22	0.02
11.70	1.15	0.00	0.00	14.30	2.83	0.22	0.02
11.75	1.20	0.00	0.00	14.35	2.84	0.22	0.02
11.80	1.25	0.00	0.00	14.40	2.84	0.23	0.02
11.85	1.32	0.00	0.00	14.45	2.85	0.23	0.02
11.90	1.39	0.00	0.00	14.50	2.86	0.23	0.02
11.95	1.51	0.00	0.00	14.55	2.86	0.23	0.02
12.00	1.63	0.00	0.00	14.60	2.87	0.23	0.02
12.05	1.82	0.02	0.02	14.65	2.87	0.23	0.02
12.10	2.02	0.04	0.07	14.70	2.88	0.24	0.02
12.15	2.09	0.05	**0.11**	14.75	2.89	0.24	0.02
12.20	2.16	0.06	**0.11**	14.80	2.89	0.24	0.02
12.25	2.21	0.07	0.10	14.85	2.90	0.24	0.02
12.30	2.26	0.08	0.10	14.90	2.90	0.24	0.01
12.35	2.30	0.09	0.09	14.95	2.91	0.24	0.01
12.40	2.33	0.10	0.08	15.00	2.91	0.25	0.01
12.45	2.37	0.10	0.07	15.05	2.92	0.25	0.01
12.50	2.40	0.11	0.07	15.10	2.92	0.25	0.01
12.55	2.42	0.12	0.07	15.15	2.93	0.25	0.01
12.60	2.45	0.12	0.06	15.20	2.93	0.25	0.01
12.65	2.47	0.13	0.05	15.25	2.94	0.25	0.01
12.70	2.49	0.13	0.05	15.30	2.94	0.25	0.01
12.75	2.51	0.14	0.05	15.35	2.94	0.26	0.01
12.80	2.53	0.14	0.04	15.40	2.95	0.26	0.01
12.85	2.54	0.14	0.04	15.45	2.95	0.26	0.01
12.90	2.56	0.15	0.04	15.50	2.96	0.26	0.01
12.95	2.58	0.15	0.04	15.55	2.96	0.26	0.01

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	2.97	0.26	0.01	18.20	3.15	0.32	0.01
15.65	2.97	0.26	0.01	18.25	3.15	0.32	0.01
15.70	2.98	0.27	0.01	18.30	3.16	0.33	0.01
15.75	2.98	0.27	0.01	18.35	3.16	0.33	0.01
15.80	2.98	0.27	0.01	18.40	3.16	0.33	0.01
15.85	2.99	0.27	0.01	18.45	3.16	0.33	0.01
15.90	2.99	0.27	0.01	18.50	3.17	0.33	0.01
15.95	3.00	0.27	0.01	18.55	3.17	0.33	0.01
16.00	3.00	0.27	0.01	18.60	3.17	0.33	0.01
16.05	3.01	0.28	0.01	18.65	3.17	0.33	0.01
16.10	3.01	0.28	0.01	18.70	3.18	0.33	0.01
16.15	3.01	0.28	0.01	18.75	3.18	0.33	0.01
16.20	3.02	0.28	0.01	18.80	3.18	0.34	0.01
16.25	3.02	0.28	0.01	18.85	3.19	0.34	0.01
16.30	3.03	0.28	0.01	18.90	3.19	0.34	0.01
16.35	3.03	0.28	0.01	18.95	3.19	0.34	0.01
16.40	3.03	0.28	0.01	19.00	3.19	0.34	0.01
16.45	3.04	0.29	0.01	19.05	3.20	0.34	0.01
16.50	3.04	0.29	0.01	19.10	3.20	0.34	0.01
16.55	3.04	0.29	0.01	19.15	3.20	0.34	0.01
16.60	3.05	0.29	0.01	19.20	3.20	0.34	0.01
16.65	3.05	0.29	0.01	19.25	3.21	0.34	0.01
16.70	3.06	0.29	0.01	19.30	3.21	0.34	0.01
16.75	3.06	0.29	0.01	19.35	3.21	0.35	0.01
16.80	3.06	0.29	0.01	19.40	3.21	0.35	0.01
16.85	3.07	0.30	0.01	19.45	3.22	0.35	0.01
16.90	3.07	0.30	0.01	19.50	3.22	0.35	0.01
16.95	3.07	0.30	0.01	19.55	3.22	0.35	0.01
17.00	3.08	0.30	0.01	19.60	3.22	0.35	0.01
17.05	3.08	0.30	0.01	19.65	3.23	0.35	0.01
17.10	3.08	0.30	0.01	19.70	3.23	0.35	0.01
17.15	3.09	0.30	0.01	19.75	3.23	0.35	0.01
17.20	3.09	0.30	0.01	19.80	3.23	0.35	0.01
17.25	3.09	0.30	0.01	19.85	3.24	0.35	0.01
17.30	3.10	0.31	0.01	19.90	3.24	0.35	0.01
17.35	3.10	0.31	0.01	19.95	3.24	0.36	0.01
17.40	3.10	0.31	0.01	20.00	3.24	0.36	0.01
17.45	3.11	0.31	0.01	20.05	3.25	0.36	0.01
17.50	3.11	0.31	0.01	20.10	3.25	0.36	0.01
17.55	3.11	0.31	0.01	20.15	3.25	0.36	0.01
17.60	3.12	0.31	0.01	20.20	3.25	0.36	0.01
17.65	3.12	0.31	0.01	20.25	3.26	0.36	0.01
17.70	3.12	0.31	0.01	20.30	3.26	0.36	0.01
17.75	3.13	0.32	0.01	20.35	3.26	0.36	0.01
17.80	3.13	0.32	0.01	20.40	3.26	0.36	0.01
17.85	3.13	0.32	0.01	20.45	3.26	0.36	0.01
17.90	3.13	0.32	0.01	20.50	3.27	0.37	0.01
17.95	3.14	0.32	0.01	20.55	3.27	0.37	0.01
18.00	3.14	0.32	0.01	20.60	3.27	0.37	0.01
18.05	3.14	0.32	0.01	20.65	3.27	0.37	0.01
18.10	3.15	0.32	0.01	20.70	3.28	0.37	0.01
18.15	3.15	0.32	0.01	20.75	3.28	0.37	0.01

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.28	0.37	0.01	23.40	3.39	0.41	0.01
20.85	3.28	0.37	0.01	23.45	3.39	0.41	0.01
20.90	3.29	0.37	0.01	23.50	3.39	0.41	0.01
20.95	3.29	0.37	0.01	23.55	3.39	0.41	0.01
21.00	3.29	0.37	0.01	23.60	3.39	0.41	0.01
21.05	3.29	0.37	0.01	23.65	3.40	0.41	0.01
21.10	3.29	0.37	0.01	23.70	3.40	0.41	0.01
21.15	3.30	0.38	0.01	23.75	3.40	0.41	0.01
21.20	3.30	0.38	0.01	23.80	3.40	0.42	0.01
21.25	3.30	0.38	0.01	23.85	3.40	0.42	0.01
21.30	3.30	0.38	0.01	23.90	3.41	0.42	0.01
21.35	3.31	0.38	0.01	23.95	3.41	0.42	0.01
21.40	3.31	0.38	0.01	24.00	**3.41**	**0.42**	0.01
21.45	3.31	0.38	0.01				
21.50	3.31	0.38	0.01				
21.55	3.31	0.38	0.01				
21.60	3.32	0.38	0.01				
21.65	3.32	0.38	0.01				
21.70	3.32	0.38	0.01				
21.75	3.32	0.39	0.01				
21.80	3.32	0.39	0.01				
21.85	3.33	0.39	0.01				
21.90	3.33	0.39	0.01				
21.95	3.33	0.39	0.01				
22.00	3.33	0.39	0.01				
22.05	3.33	0.39	0.01				
22.10	3.34	0.39	0.01				
22.15	3.34	0.39	0.01				
22.20	3.34	0.39	0.01				
22.25	3.34	0.39	0.01				
22.30	3.35	0.39	0.01				
22.35	3.35	0.39	0.01				
22.40	3.35	0.40	0.01				
22.45	3.35	0.40	0.01				
22.50	3.35	0.40	0.01				
22.55	3.36	0.40	0.01				
22.60	3.36	0.40	0.01				
22.65	3.36	0.40	0.01				
22.70	3.36	0.40	0.01				
22.75	3.36	0.40	0.01				
22.80	3.37	0.40	0.01				
22.85	3.37	0.40	0.01				
22.90	3.37	0.40	0.01				
22.95	3.37	0.40	0.01				
23.00	3.37	0.40	0.01				
23.05	3.37	0.40	0.01				
23.10	3.38	0.41	0.01				
23.15	3.38	0.41	0.01				
23.20	3.38	0.41	0.01				
23.25	3.38	0.41	0.01				
23.30	3.38	0.41	0.01				
23.35	3.39	0.41	0.01				

Summary for Subcatchment PDA2 IMP: PDA2 IMP

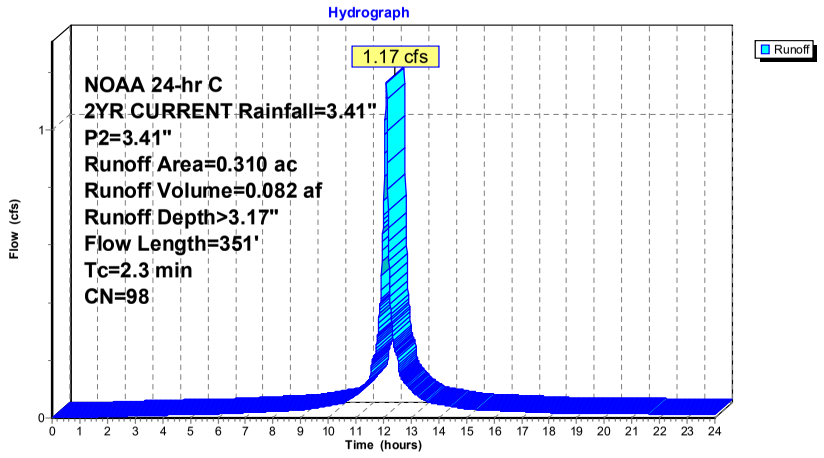
Runoff = 1.17 cfs @ 12.11 hrs, Volume= 0.082 af, Depth> 3.17"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR CURRENT Rainfall=3.41", P2=3.41"

	Area (ac)	CN	Description
*	0.310	98	Impervious vehicular
	0.310		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0180	1.36		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
1.1	251	0.0360	3.85		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
2.3	351	Total			

Subcatchment PDA2 IMP: PDA2 IMP



Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.10	0.01	0.01
0.05	0.00	0.00	0.00	2.65	0.10	0.02	0.01
0.10	0.00	0.00	0.00	2.70	0.11	0.02	0.01
0.15	0.01	0.00	0.00	2.75	0.11	0.02	0.01
0.20	0.01	0.00	0.00	2.80	0.11	0.02	0.01
0.25	0.01	0.00	0.00	2.85	0.11	0.02	0.01
0.30	0.01	0.00	0.00	2.90	0.12	0.02	0.01
0.35	0.01	0.00	0.00	2.95	0.12	0.02	0.01
0.40	0.02	0.00	0.00	3.00	0.12	0.02	0.01
0.45	0.02	0.00	0.00	3.05	0.12	0.02	0.01
0.50	0.02	0.00	0.00	3.10	0.12	0.02	0.01
0.55	0.02	0.00	0.00	3.15	0.13	0.03	0.01
0.60	0.02	0.00	0.00	3.20	0.13	0.03	0.01
0.65	0.02	0.00	0.00	3.25	0.13	0.03	0.01
0.70	0.03	0.00	0.00	3.30	0.13	0.03	0.01
0.75	0.03	0.00	0.00	3.35	0.14	0.03	0.01
0.80	0.03	0.00	0.00	3.40	0.14	0.03	0.01
0.85	0.03	0.00	0.00	3.45	0.14	0.03	0.01
0.90	0.03	0.00	0.00	3.50	0.14	0.03	0.01
0.95	0.04	0.00	0.00	3.55	0.15	0.04	0.01
1.00	0.04	0.00	0.00	3.60	0.15	0.04	0.01
1.05	0.04	0.00	0.00	3.65	0.15	0.04	0.01
1.10	0.04	0.00	0.00	3.70	0.15	0.04	0.01
1.15	0.04	0.00	0.00	3.75	0.15	0.04	0.01
1.20	0.04	0.00	0.00	3.80	0.16	0.04	0.01
1.25	0.05	0.00	0.00	3.85	0.16	0.04	0.01
1.30	0.05	0.00	0.00	3.90	0.16	0.05	0.01
1.35	0.05	0.00	0.00	3.95	0.16	0.05	0.01
1.40	0.05	0.00	0.00	4.00	0.17	0.05	0.01
1.45	0.05	0.00	0.00	4.05	0.17	0.05	0.01
1.50	0.06	0.00	0.00	4.10	0.17	0.05	0.01
1.55	0.06	0.00	0.00	4.15	0.17	0.05	0.01
1.60	0.06	0.00	0.00	4.20	0.18	0.05	0.01
1.65	0.06	0.00	0.00	4.25	0.18	0.06	0.01
1.70	0.06	0.00	0.00	4.30	0.18	0.06	0.01
1.75	0.07	0.00	0.00	4.35	0.18	0.06	0.01
1.80	0.07	0.00	0.00	4.40	0.19	0.06	0.01
1.85	0.07	0.00	0.00	4.45	0.19	0.06	0.01
1.90	0.07	0.00	0.00	4.50	0.19	0.06	0.01
1.95	0.08	0.00	0.00	4.55	0.19	0.07	0.01
2.00	0.08	0.01	0.00	4.60	0.20	0.07	0.01
2.05	0.08	0.01	0.00	4.65	0.20	0.07	0.01
2.10	0.08	0.01	0.00	4.70	0.20	0.07	0.01
2.15	0.08	0.01	0.00	4.75	0.20	0.07	0.01
2.20	0.09	0.01	0.00	4.80	0.21	0.07	0.01
2.25	0.09	0.01	0.00	4.85	0.21	0.08	0.01
2.30	0.09	0.01	0.00	4.90	0.21	0.08	0.01
2.35	0.09	0.01	0.00	4.95	0.21	0.08	0.01
2.40	0.09	0.01	0.00	5.00	0.22	0.08	0.01
2.45	0.10	0.01	0.00	5.05	0.22	0.08	0.01
2.50	0.10	0.01	0.01	5.10	0.22	0.09	0.01
2.55	0.10	0.01	0.01	5.15	0.22	0.09	0.01

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.23	0.09	0.01	7.80	0.39	0.22	0.02
5.25	0.23	0.09	0.01	7.85	0.40	0.23	0.02
5.30	0.23	0.09	0.01	7.90	0.40	0.23	0.02
5.35	0.24	0.09	0.01	7.95	0.40	0.23	0.02
5.40	0.24	0.10	0.01	8.00	0.41	0.24	0.02
5.45	0.24	0.10	0.01	8.05	0.41	0.24	0.02
5.50	0.24	0.10	0.01	8.10	0.42	0.24	0.02
5.55	0.25	0.10	0.01	8.15	0.42	0.25	0.02
5.60	0.25	0.10	0.01	8.20	0.43	0.25	0.02
5.65	0.25	0.11	0.01	8.25	0.43	0.26	0.02
5.70	0.25	0.11	0.01	8.30	0.43	0.26	0.02
5.75	0.26	0.11	0.01	8.35	0.44	0.26	0.02
5.80	0.26	0.11	0.01	8.40	0.44	0.27	0.02
5.85	0.26	0.12	0.01	8.45	0.45	0.27	0.02
5.90	0.26	0.12	0.01	8.50	0.45	0.27	0.02
5.95	0.27	0.12	0.01	8.55	0.46	0.28	0.02
6.00	0.27	0.12	0.01	8.60	0.46	0.28	0.03
6.05	0.27	0.12	0.01	8.65	0.47	0.29	0.03
6.10	0.28	0.13	0.01	8.70	0.47	0.29	0.03
6.15	0.28	0.13	0.01	8.75	0.47	0.29	0.03
6.20	0.28	0.13	0.01	8.80	0.48	0.30	0.03
6.25	0.28	0.13	0.01	8.85	0.48	0.30	0.03
6.30	0.29	0.14	0.01	8.90	0.49	0.31	0.03
6.35	0.29	0.14	0.01	8.95	0.49	0.31	0.03
6.40	0.29	0.14	0.01	9.00	0.50	0.32	0.03
6.45	0.30	0.14	0.02	9.05	0.50	0.32	0.03
6.50	0.30	0.14	0.02	9.10	0.51	0.33	0.03
6.55	0.30	0.15	0.02	9.15	0.51	0.33	0.03
6.60	0.31	0.15	0.02	9.20	0.52	0.33	0.03
6.65	0.31	0.15	0.02	9.25	0.52	0.34	0.03
6.70	0.31	0.16	0.02	9.30	0.53	0.34	0.03
6.75	0.32	0.16	0.02	9.35	0.54	0.35	0.03
6.80	0.32	0.16	0.02	9.40	0.54	0.36	0.03
6.85	0.32	0.16	0.02	9.45	0.55	0.36	0.03
6.90	0.33	0.17	0.02	9.50	0.55	0.37	0.03
6.95	0.33	0.17	0.02	9.55	0.56	0.37	0.04
7.00	0.33	0.17	0.02	9.60	0.57	0.38	0.04
7.05	0.34	0.17	0.02	9.65	0.57	0.38	0.04
7.10	0.34	0.18	0.02	9.70	0.58	0.39	0.04
7.15	0.34	0.18	0.02	9.75	0.59	0.40	0.04
7.20	0.35	0.18	0.02	9.80	0.59	0.40	0.04
7.25	0.35	0.19	0.02	9.85	0.60	0.41	0.04
7.30	0.35	0.19	0.02	9.90	0.61	0.42	0.04
7.35	0.36	0.19	0.02	9.95	0.61	0.42	0.04
7.40	0.36	0.20	0.02	10.00	0.62	0.43	0.04
7.45	0.37	0.20	0.02	10.05	0.63	0.44	0.04
7.50	0.37	0.20	0.02	10.10	0.64	0.44	0.04
7.55	0.37	0.21	0.02	10.15	0.64	0.45	0.05
7.60	0.38	0.21	0.02	10.20	0.65	0.46	0.05
7.65	0.38	0.21	0.02	10.25	0.66	0.47	0.05
7.70	0.38	0.22	0.02	10.30	0.67	0.47	0.05
7.75	0.39	0.22	0.02	10.35	0.68	0.48	0.05

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.69	0.49	0.05	13.00	2.59	2.36	0.10
10.45	0.69	0.50	0.05	13.05	2.61	2.38	0.09
10.50	0.70	0.51	0.05	13.10	2.62	2.39	0.09
10.55	0.71	0.52	0.05	13.15	2.63	2.40	0.08
10.60	0.72	0.52	0.06	13.20	2.64	2.41	0.08
10.65	0.73	0.53	0.06	13.25	2.66	2.43	0.07
10.70	0.74	0.54	0.06	13.30	2.67	2.44	0.07
10.75	0.75	0.56	0.07	13.35	2.68	2.45	0.07
10.80	0.77	0.57	0.07	13.40	2.69	2.46	0.07
10.85	0.78	0.58	0.07	13.45	2.70	2.47	0.06
10.90	0.79	0.59	0.07	13.50	2.71	2.48	0.06
10.95	0.80	0.60	0.08	13.55	2.72	2.49	0.06
11.00	0.82	0.62	0.08	13.60	2.72	2.49	0.05
11.05	0.83	0.63	0.09	13.65	2.73	2.50	0.05
11.10	0.85	0.65	0.09	13.70	2.74	2.51	0.05
11.15	0.87	0.66	0.10	13.75	2.75	2.52	0.05
11.20	0.88	0.68	0.10	13.80	2.76	2.53	0.05
11.25	0.90	0.70	0.11	13.85	2.77	2.53	0.05
11.30	0.92	0.71	0.11	13.90	2.77	2.54	0.05
11.35	0.94	0.74	0.12	13.95	2.78	2.55	0.05
11.40	0.96	0.76	0.12	14.00	2.79	2.56	0.05
11.45	0.99	0.78	0.13	14.05	2.80	2.56	0.05
11.50	1.01	0.80	0.13	14.10	2.80	2.57	0.05
11.55	1.04	0.83	0.17	14.15	2.81	2.58	0.04
11.60	1.08	0.87	0.20	14.20	2.82	2.59	0.04
11.65	1.11	0.90	0.21	14.25	2.82	2.59	0.04
11.70	1.15	0.94	0.22	14.30	2.83	2.60	0.04
11.75	1.20	0.98	0.26	14.35	2.84	2.61	0.04
11.80	1.25	1.03	0.29	14.40	2.84	2.61	0.04
11.85	1.32	1.10	0.36	14.45	2.85	2.62	0.04
11.90	1.39	1.17	0.41	14.50	2.86	2.63	0.04
11.95	1.51	1.29	0.58	14.55	2.86	2.63	0.04
12.00	1.63	1.40	0.69	14.60	2.87	2.64	0.04
12.05	1.82	1.60	0.98	14.65	2.87	2.64	0.04
12.10	2.02	1.80	**1.16**	14.70	2.88	2.65	0.04
12.15	2.09	1.87	**0.79**	14.75	2.89	2.65	0.04
12.20	2.16	1.93	0.54	14.80	2.89	2.66	0.03
12.25	2.21	1.98	0.39	14.85	2.90	2.67	0.03
12.30	2.26	2.03	0.33	14.90	2.90	2.67	0.03
12.35	2.30	2.07	0.27	14.95	2.91	2.68	0.03
12.40	2.33	2.11	0.24	15.00	2.91	2.68	0.03
12.45	2.37	2.14	0.22	15.05	2.92	2.69	0.03
12.50	2.40	2.17	0.22	15.10	2.92	2.69	0.03
12.55	2.42	2.20	0.17	15.15	2.93	2.69	0.03
12.60	2.45	2.22	0.15	15.20	2.93	2.70	0.03
12.65	2.47	2.24	0.14	15.25	2.94	2.70	0.03
12.70	2.49	2.26	0.13	15.30	2.94	2.71	0.03
12.75	2.51	2.28	0.12	15.35	2.94	2.71	0.03
12.80	2.53	2.30	0.12	15.40	2.95	2.72	0.03
12.85	2.54	2.31	0.11	15.45	2.95	2.72	0.03
12.90	2.56	2.33	0.11	15.50	2.96	2.73	0.03
12.95	2.58	2.35	0.10	15.55	2.96	2.73	0.03

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	2.97	2.74	0.03	18.20	3.15	2.92	0.02
15.65	2.97	2.74	0.03	18.25	3.15	2.92	0.02
15.70	2.98	2.74	0.03	18.30	3.16	2.92	0.02
15.75	2.98	2.75	0.03	18.35	3.16	2.93	0.02
15.80	2.98	2.75	0.03	18.40	3.16	2.93	0.02
15.85	2.99	2.76	0.03	18.45	3.16	2.93	0.02
15.90	2.99	2.76	0.03	18.50	3.17	2.93	0.02
15.95	3.00	2.77	0.03	18.55	3.17	2.94	0.02
16.00	3.00	2.77	0.03	18.60	3.17	2.94	0.02
16.05	3.01	2.77	0.03	18.65	3.17	2.94	0.02
16.10	3.01	2.78	0.03	18.70	3.18	2.95	0.02
16.15	3.01	2.78	0.03	18.75	3.18	2.95	0.02
16.20	3.02	2.79	0.03	18.80	3.18	2.95	0.02
16.25	3.02	2.79	0.02	18.85	3.19	2.95	0.02
16.30	3.03	2.79	0.02	18.90	3.19	2.96	0.02
16.35	3.03	2.80	0.02	18.95	3.19	2.96	0.02
16.40	3.03	2.80	0.02	19.00	3.19	2.96	0.02
16.45	3.04	2.81	0.02	19.05	3.20	2.96	0.02
16.50	3.04	2.81	0.02	19.10	3.20	2.97	0.02
16.55	3.04	2.81	0.02	19.15	3.20	2.97	0.02
16.60	3.05	2.82	0.02	19.20	3.20	2.97	0.02
16.65	3.05	2.82	0.02	19.25	3.21	2.97	0.02
16.70	3.06	2.82	0.02	19.30	3.21	2.98	0.02
16.75	3.06	2.83	0.02	19.35	3.21	2.98	0.02
16.80	3.06	2.83	0.02	19.40	3.21	2.98	0.02
16.85	3.07	2.83	0.02	19.45	3.22	2.98	0.02
16.90	3.07	2.84	0.02	19.50	3.22	2.99	0.02
16.95	3.07	2.84	0.02	19.55	3.22	2.99	0.02
17.00	3.08	2.85	0.02	19.60	3.22	2.99	0.02
17.05	3.08	2.85	0.02	19.65	3.23	2.99	0.02
17.10	3.08	2.85	0.02	19.70	3.23	3.00	0.02
17.15	3.09	2.86	0.02	19.75	3.23	3.00	0.02
17.20	3.09	2.86	0.02	19.80	3.23	3.00	0.02
17.25	3.09	2.86	0.02	19.85	3.24	3.00	0.02
17.30	3.10	2.87	0.02	19.90	3.24	3.01	0.02
17.35	3.10	2.87	0.02	19.95	3.24	3.01	0.02
17.40	3.10	2.87	0.02	20.00	3.24	3.01	0.02
17.45	3.11	2.87	0.02	20.05	3.25	3.01	0.02
17.50	3.11	2.88	0.02	20.10	3.25	3.02	0.01
17.55	3.11	2.88	0.02	20.15	3.25	3.02	0.01
17.60	3.12	2.88	0.02	20.20	3.25	3.02	0.01
17.65	3.12	2.89	0.02	20.25	3.26	3.02	0.01
17.70	3.12	2.89	0.02	20.30	3.26	3.02	0.01
17.75	3.13	2.89	0.02	20.35	3.26	3.03	0.01
17.80	3.13	2.90	0.02	20.40	3.26	3.03	0.01
17.85	3.13	2.90	0.02	20.45	3.26	3.03	0.01
17.90	3.13	2.90	0.02	20.50	3.27	3.03	0.01
17.95	3.14	2.90	0.02	20.55	3.27	3.04	0.01
18.00	3.14	2.91	0.02	20.60	3.27	3.04	0.01
18.05	3.14	2.91	0.02	20.65	3.27	3.04	0.01
18.10	3.15	2.91	0.02	20.70	3.28	3.04	0.01
18.15	3.15	2.92	0.02	20.75	3.28	3.05	0.01

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.28	3.05	0.01	23.40	3.39	3.15	0.01
20.85	3.28	3.05	0.01	23.45	3.39	3.16	0.01
20.90	3.29	3.05	0.01	23.50	3.39	3.16	0.01
20.95	3.29	3.05	0.01	23.55	3.39	3.16	0.01
21.00	3.29	3.06	0.01	23.60	3.39	3.16	0.01
21.05	3.29	3.06	0.01	23.65	3.40	3.16	0.01
21.10	3.29	3.06	0.01	23.70	3.40	3.17	0.01
21.15	3.30	3.06	0.01	23.75	3.40	3.17	0.01
21.20	3.30	3.07	0.01	23.80	3.40	3.17	0.01
21.25	3.30	3.07	0.01	23.85	3.40	3.17	0.01
21.30	3.30	3.07	0.01	23.90	3.41	3.17	0.01
21.35	3.31	3.07	0.01	23.95	3.41	3.17	0.01
21.40	3.31	3.07	0.01	24.00	**3.41**	**3.18**	0.01
21.45	3.31	3.08	0.01				
21.50	3.31	3.08	0.01				
21.55	3.31	3.08	0.01				
21.60	3.32	3.08	0.01				
21.65	3.32	3.09	0.01				
21.70	3.32	3.09	0.01				
21.75	3.32	3.09	0.01				
21.80	3.32	3.09	0.01				
21.85	3.33	3.09	0.01				
21.90	3.33	3.10	0.01				
21.95	3.33	3.10	0.01				
22.00	3.33	3.10	0.01				
22.05	3.33	3.10	0.01				
22.10	3.34	3.10	0.01				
22.15	3.34	3.11	0.01				
22.20	3.34	3.11	0.01				
22.25	3.34	3.11	0.01				
22.30	3.35	3.11	0.01				
22.35	3.35	3.11	0.01				
22.40	3.35	3.12	0.01				
22.45	3.35	3.12	0.01				
22.50	3.35	3.12	0.01				
22.55	3.36	3.12	0.01				
22.60	3.36	3.12	0.01				
22.65	3.36	3.13	0.01				
22.70	3.36	3.13	0.01				
22.75	3.36	3.13	0.01				
22.80	3.37	3.13	0.01				
22.85	3.37	3.13	0.01				
22.90	3.37	3.14	0.01				
22.95	3.37	3.14	0.01				
23.00	3.37	3.14	0.01				
23.05	3.37	3.14	0.01				
23.10	3.38	3.14	0.01				
23.15	3.38	3.15	0.01				
23.20	3.38	3.15	0.01				
23.25	3.38	3.15	0.01				
23.30	3.38	3.15	0.01				
23.35	3.39	3.15	0.01				

Summary for Subcatchment PDA3 IMP: PDA3 IMP

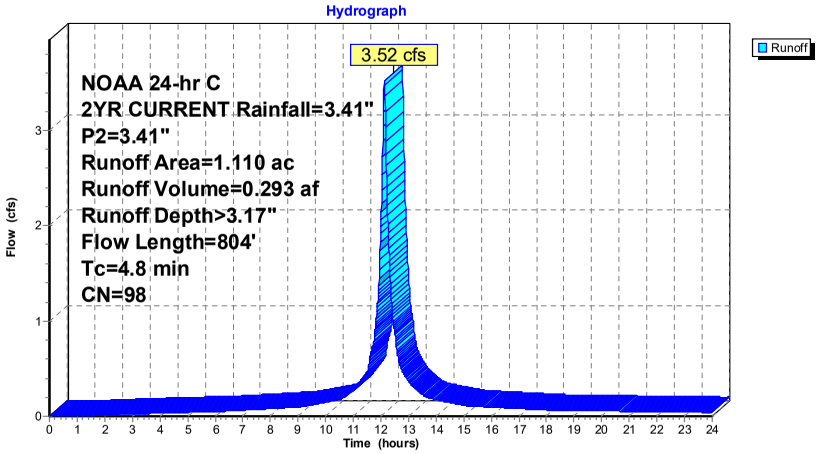
Runoff = 3.52 cfs @ 12.13 hrs, Volume= 0.293 af, Depth> 3.17"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR CURRENT Rainfall=3.41", P2=3.41"

	Area (ac)	CN	Description
*	0.990	98	Impervious vehicular
*	0.120	98	Impervious non vehicular
	1.110	98	Weighted Average
	1.110		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0071	0.94		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.7	172	0.0039	3.90	12.24	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
0.1	27	0.0120	6.84	21.48	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
1.6	439	0.0015	4.45	87.42	**Pipe Channel, RCP_Round 60"** 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.015
4.8	804	Total			

Subcatchment PDA3 IMP: PDA3 IMP



Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.10	0.01	0.02
0.05	0.00	0.00	0.00	2.65	0.10	0.02	0.02
0.10	0.00	0.00	0.00	2.70	0.11	0.02	0.02
0.15	0.01	0.00	0.00	2.75	0.11	0.02	0.02
0.20	0.01	0.00	0.00	2.80	0.11	0.02	0.02
0.25	0.01	0.00	0.00	2.85	0.11	0.02	0.02
0.30	0.01	0.00	0.00	2.90	0.12	0.02	0.02
0.35	0.01	0.00	0.00	2.95	0.12	0.02	0.02
0.40	0.02	0.00	0.00	3.00	0.12	0.02	0.02
0.45	0.02	0.00	0.00	3.05	0.12	0.02	0.02
0.50	0.02	0.00	0.00	3.10	0.12	0.02	0.02
0.55	0.02	0.00	0.00	3.15	0.13	0.03	0.02
0.60	0.02	0.00	0.00	3.20	0.13	0.03	0.02
0.65	0.02	0.00	0.00	3.25	0.13	0.03	0.03
0.70	0.03	0.00	0.00	3.30	0.13	0.03	0.03
0.75	0.03	0.00	0.00	3.35	0.14	0.03	0.03
0.80	0.03	0.00	0.00	3.40	0.14	0.03	0.03
0.85	0.03	0.00	0.00	3.45	0.14	0.03	0.03
0.90	0.03	0.00	0.00	3.50	0.14	0.03	0.03
0.95	0.04	0.00	0.00	3.55	0.15	0.04	0.03
1.00	0.04	0.00	0.00	3.60	0.15	0.04	0.03
1.05	0.04	0.00	0.00	3.65	0.15	0.04	0.03
1.10	0.04	0.00	0.00	3.70	0.15	0.04	0.03
1.15	0.04	0.00	0.00	3.75	0.15	0.04	0.03
1.20	0.04	0.00	0.00	3.80	0.16	0.04	0.03
1.25	0.05	0.00	0.00	3.85	0.16	0.04	0.03
1.30	0.05	0.00	0.00	3.90	0.16	0.05	0.03
1.35	0.05	0.00	0.00	3.95	0.16	0.05	0.03
1.40	0.05	0.00	0.00	4.00	0.17	0.05	0.03
1.45	0.05	0.00	0.00	4.05	0.17	0.05	0.03
1.50	0.06	0.00	0.00	4.10	0.17	0.05	0.03
1.55	0.06	0.00	0.01	4.15	0.17	0.05	0.03
1.60	0.06	0.00	0.01	4.20	0.18	0.05	0.03
1.65	0.06	0.00	0.01	4.25	0.18	0.06	0.03
1.70	0.06	0.00	0.01	4.30	0.18	0.06	0.03
1.75	0.07	0.00	0.01	4.35	0.18	0.06	0.04
1.80	0.07	0.00	0.01	4.40	0.19	0.06	0.04
1.85	0.07	0.00	0.01	4.45	0.19	0.06	0.04
1.90	0.07	0.00	0.01	4.50	0.19	0.06	0.04
1.95	0.08	0.00	0.01	4.55	0.19	0.07	0.04
2.00	0.08	0.01	0.01	4.60	0.20	0.07	0.04
2.05	0.08	0.01	0.01	4.65	0.20	0.07	0.04
2.10	0.08	0.01	0.01	4.70	0.20	0.07	0.04
2.15	0.08	0.01	0.01	4.75	0.20	0.07	0.04
2.20	0.09	0.01	0.01	4.80	0.21	0.07	0.04
2.25	0.09	0.01	0.01	4.85	0.21	0.08	0.04
2.30	0.09	0.01	0.02	4.90	0.21	0.08	0.04
2.35	0.09	0.01	0.02	4.95	0.21	0.08	0.04
2.40	0.09	0.01	0.02	5.00	0.22	0.08	0.04
2.45	0.10	0.01	0.02	5.05	0.22	0.08	0.04
2.50	0.10	0.01	0.02	5.10	0.22	0.09	0.04
2.55	0.10	0.01	0.02	5.15	0.22	0.09	0.04

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.23	0.09	0.04	7.80	0.39	0.22	0.08
5.25	0.23	0.09	0.04	7.85	0.40	0.23	0.08
5.30	0.23	0.09	0.04	7.90	0.40	0.23	0.08
5.35	0.24	0.09	0.04	7.95	0.40	0.23	0.08
5.40	0.24	0.10	0.04	8.00	0.41	0.24	0.08
5.45	0.24	0.10	0.04	8.05	0.41	0.24	0.08
5.50	0.24	0.10	0.04	8.10	0.42	0.24	0.08
5.55	0.25	0.10	0.04	8.15	0.42	0.25	0.08
5.60	0.25	0.10	0.04	8.20	0.43	0.25	0.08
5.65	0.25	0.11	0.04	8.25	0.43	0.26	0.08
5.70	0.25	0.11	0.05	8.30	0.43	0.26	0.08
5.75	0.26	0.11	0.05	8.35	0.44	0.26	0.08
5.80	0.26	0.11	0.05	8.40	0.44	0.27	0.09
5.85	0.26	0.12	0.05	8.45	0.45	0.27	0.09
5.90	0.26	0.12	0.05	8.50	0.45	0.27	0.09
5.95	0.27	0.12	0.05	8.55	0.46	0.28	0.09
6.00	0.27	0.12	0.05	8.60	0.46	0.28	0.09
6.05	0.27	0.12	0.05	8.65	0.47	0.29	0.09
6.10	0.28	0.13	0.05	8.70	0.47	0.29	0.09
6.15	0.28	0.13	0.05	8.75	0.47	0.29	0.09
6.20	0.28	0.13	0.05	8.80	0.48	0.30	0.09
6.25	0.28	0.13	0.05	8.85	0.48	0.30	0.09
6.30	0.29	0.14	0.05	8.90	0.49	0.31	0.09
6.35	0.29	0.14	0.05	8.95	0.49	0.31	0.09
6.40	0.29	0.14	0.05	9.00	0.50	0.32	0.10
6.45	0.30	0.14	0.05	9.05	0.50	0.32	0.10
6.50	0.30	0.14	0.05	9.10	0.51	0.33	0.10
6.55	0.30	0.15	0.06	9.15	0.51	0.33	0.10
6.60	0.31	0.15	0.06	9.20	0.52	0.33	0.10
6.65	0.31	0.15	0.06	9.25	0.52	0.34	0.11
6.70	0.31	0.16	0.06	9.30	0.53	0.34	0.11
6.75	0.32	0.16	0.06	9.35	0.54	0.35	0.11
6.80	0.32	0.16	0.06	9.40	0.54	0.36	0.11
6.85	0.32	0.16	0.06	9.45	0.55	0.36	0.12
6.90	0.33	0.17	0.06	9.50	0.55	0.37	0.12
6.95	0.33	0.17	0.06	9.55	0.56	0.37	0.12
7.00	0.33	0.17	0.06	9.60	0.57	0.38	0.13
7.05	0.34	0.17	0.06	9.65	0.57	0.38	0.13
7.10	0.34	0.18	0.06	9.70	0.58	0.39	0.13
7.15	0.34	0.18	0.06	9.75	0.59	0.40	0.13
7.20	0.35	0.18	0.07	9.80	0.59	0.40	0.14
7.25	0.35	0.19	0.07	9.85	0.60	0.41	0.14
7.30	0.35	0.19	0.07	9.90	0.61	0.42	0.14
7.35	0.36	0.19	0.07	9.95	0.61	0.42	0.15
7.40	0.36	0.20	0.07	10.00	0.62	0.43	0.15
7.45	0.37	0.20	0.07	10.05	0.63	0.44	0.15
7.50	0.37	0.20	0.07	10.10	0.64	0.44	0.15
7.55	0.37	0.21	0.07	10.15	0.64	0.45	0.16
7.60	0.38	0.21	0.07	10.20	0.65	0.46	0.16
7.65	0.38	0.21	0.07	10.25	0.66	0.47	0.16
7.70	0.38	0.22	0.07	10.30	0.67	0.47	0.17
7.75	0.39	0.22	0.07	10.35	0.68	0.48	0.17

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.69	0.49	0.17	13.00	2.59	2.36	0.37
10.45	0.69	0.50	0.17	13.05	2.61	2.38	0.35
10.50	0.70	0.51	0.18	13.10	2.62	2.39	0.33
10.55	0.71	0.52	0.18	13.15	2.63	2.40	0.31
10.60	0.72	0.52	0.19	13.20	2.64	2.41	0.30
10.65	0.73	0.53	0.20	13.25	2.66	2.43	0.29
10.70	0.74	0.54	0.21	13.30	2.67	2.44	0.27
10.75	0.75	0.56	0.22	13.35	2.68	2.45	0.26
10.80	0.77	0.57	0.23	13.40	2.69	2.46	0.25
10.85	0.78	0.58	0.24	13.45	2.70	2.47	0.24
10.90	0.79	0.59	0.25	13.50	2.71	2.48	0.23
10.95	0.80	0.60	0.26	13.55	2.72	2.49	0.22
11.00	0.82	0.62	0.27	13.60	2.72	2.49	0.21
11.05	0.83	0.63	0.29	13.65	2.73	2.50	0.20
11.10	0.85	0.65	0.30	13.70	2.74	2.51	0.19
11.15	0.87	0.66	0.32	13.75	2.75	2.52	0.19
11.20	0.88	0.68	0.34	13.80	2.76	2.53	0.19
11.25	0.90	0.70	0.36	13.85	2.77	2.53	0.18
11.30	0.92	0.71	0.38	13.90	2.77	2.54	0.18
11.35	0.94	0.74	0.40	13.95	2.78	2.55	0.18
11.40	0.96	0.76	0.42	14.00	2.79	2.56	0.17
11.45	0.99	0.78	0.44	14.05	2.80	2.56	0.17
11.50	1.01	0.80	0.46	14.10	2.80	2.57	0.17
11.55	1.04	0.83	0.51	14.15	2.81	2.58	0.16
11.60	1.08	0.87	0.61	14.20	2.82	2.59	0.16
11.65	1.11	0.90	0.68	14.25	2.82	2.59	0.16
11.70	1.15	0.94	0.73	14.30	2.83	2.60	0.16
11.75	1.20	0.98	0.80	14.35	2.84	2.61	0.15
11.80	1.25	1.03	0.92	14.40	2.84	2.61	0.15
11.85	1.32	1.10	1.06	14.45	2.85	2.62	0.15
11.90	1.39	1.17	1.25	14.50	2.86	2.63	0.14
11.95	1.51	1.29	1.54	14.55	2.86	2.63	0.14
12.00	1.63	1.40	1.99	14.60	2.87	2.64	0.14
12.05	1.82	1.60	2.54	14.65	2.87	2.64	0.14
12.10	2.02	1.80	**3.32**	14.70	2.88	2.65	0.13
12.15	2.09	1.87	**3.35**	14.75	2.89	2.65	0.13
12.20	2.16	1.93	2.62	14.80	2.89	2.66	0.13
12.25	2.21	1.98	2.11	14.85	2.90	2.67	0.13
12.30	2.26	2.03	1.69	14.90	2.90	2.67	0.12
12.35	2.30	2.07	1.39	14.95	2.91	2.68	0.12
12.40	2.33	2.11	1.13	15.00	2.91	2.68	0.12
12.45	2.37	2.14	0.97	15.05	2.92	2.69	0.11
12.50	2.40	2.17	0.88	15.10	2.92	2.69	0.11
12.55	2.42	2.20	0.78	15.15	2.93	2.69	0.11
12.60	2.45	2.22	0.66	15.20	2.93	2.70	0.11
12.65	2.47	2.24	0.58	15.25	2.94	2.70	0.11
12.70	2.49	2.26	0.53	15.30	2.94	2.71	0.10
12.75	2.51	2.28	0.49	15.35	2.94	2.71	0.10
12.80	2.53	2.30	0.46	15.40	2.95	2.72	0.10
12.85	2.54	2.31	0.44	15.45	2.95	2.72	0.10
12.90	2.56	2.33	0.41	15.50	2.96	2.73	0.10
12.95	2.58	2.35	0.39	15.55	2.96	2.73	0.10

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	2.97	2.74	0.10	18.20	3.15	2.92	0.06
15.65	2.97	2.74	0.10	18.25	3.15	2.92	0.06
15.70	2.98	2.74	0.10	18.30	3.16	2.92	0.06
15.75	2.98	2.75	0.10	18.35	3.16	2.93	0.06
15.80	2.98	2.75	0.10	18.40	3.16	2.93	0.06
15.85	2.99	2.76	0.10	18.45	3.16	2.93	0.06
15.90	2.99	2.76	0.10	18.50	3.17	2.93	0.06
15.95	3.00	2.77	0.09	18.55	3.17	2.94	0.06
16.00	3.00	2.77	0.09	18.60	3.17	2.94	0.06
16.05	3.01	2.77	0.09	18.65	3.17	2.94	0.06
16.10	3.01	2.78	0.09	18.70	3.18	2.95	0.06
16.15	3.01	2.78	0.09	18.75	3.18	2.95	0.06
16.20	3.02	2.79	0.09	18.80	3.18	2.95	0.06
16.25	3.02	2.79	0.09	18.85	3.19	2.95	0.06
16.30	3.03	2.79	0.09	18.90	3.19	2.96	0.06
16.35	3.03	2.80	0.09	18.95	3.19	2.96	0.06
16.40	3.03	2.80	0.09	19.00	3.19	2.96	0.06
16.45	3.04	2.81	0.09	19.05	3.20	2.96	0.06
16.50	3.04	2.81	0.09	19.10	3.20	2.97	0.06
16.55	3.04	2.81	0.09	19.15	3.20	2.97	0.06
16.60	3.05	2.82	0.08	19.20	3.20	2.97	0.06
16.65	3.05	2.82	0.08	19.25	3.21	2.97	0.06
16.70	3.06	2.82	0.08	19.30	3.21	2.98	0.06
16.75	3.06	2.83	0.08	19.35	3.21	2.98	0.06
16.80	3.06	2.83	0.08	19.40	3.21	2.98	0.06
16.85	3.07	2.83	0.08	19.45	3.22	2.98	0.06
16.90	3.07	2.84	0.08	19.50	3.22	2.99	0.06
16.95	3.07	2.84	0.08	19.55	3.22	2.99	0.06
17.00	3.08	2.85	0.08	19.60	3.22	2.99	0.06
17.05	3.08	2.85	0.08	19.65	3.23	2.99	0.06
17.10	3.08	2.85	0.08	19.70	3.23	3.00	0.06
17.15	3.09	2.86	0.08	19.75	3.23	3.00	0.06
17.20	3.09	2.86	0.08	19.80	3.23	3.00	0.06
17.25	3.09	2.86	0.08	19.85	3.24	3.00	0.06
17.30	3.10	2.87	0.07	19.90	3.24	3.01	0.05
17.35	3.10	2.87	0.07	19.95	3.24	3.01	0.05
17.40	3.10	2.87	0.07	20.00	3.24	3.01	0.05
17.45	3.11	2.87	0.07	20.05	3.25	3.01	0.05
17.50	3.11	2.88	0.07	20.10	3.25	3.02	0.05
17.55	3.11	2.88	0.07	20.15	3.25	3.02	0.05
17.60	3.12	2.88	0.07	20.20	3.25	3.02	0.05
17.65	3.12	2.89	0.07	20.25	3.26	3.02	0.05
17.70	3.12	2.89	0.07	20.30	3.26	3.02	0.05
17.75	3.13	2.89	0.07	20.35	3.26	3.03	0.05
17.80	3.13	2.90	0.07	20.40	3.26	3.03	0.05
17.85	3.13	2.90	0.07	20.45	3.26	3.03	0.05
17.90	3.13	2.90	0.07	20.50	3.27	3.03	0.05
17.95	3.14	2.90	0.06	20.55	3.27	3.04	0.05
18.00	3.14	2.91	0.06	20.60	3.27	3.04	0.05
18.05	3.14	2.91	0.06	20.65	3.27	3.04	0.05
18.10	3.15	2.91	0.06	20.70	3.28	3.04	0.05
18.15	3.15	2.92	0.06	20.75	3.28	3.05	0.05

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.28	3.05	0.05	23.40	3.39	3.15	0.04
20.85	3.28	3.05	0.05	23.45	3.39	3.16	0.04
20.90	3.29	3.05	0.05	23.50	3.39	3.16	0.04
20.95	3.29	3.05	0.05	23.55	3.39	3.16	0.04
21.00	3.29	3.06	0.05	23.60	3.39	3.16	0.04
21.05	3.29	3.06	0.05	23.65	3.40	3.16	0.04
21.10	3.29	3.06	0.05	23.70	3.40	3.17	0.04
21.15	3.30	3.06	0.05	23.75	3.40	3.17	0.04
21.20	3.30	3.07	0.05	23.80	3.40	3.17	0.04
21.25	3.30	3.07	0.05	23.85	3.40	3.17	0.04
21.30	3.30	3.07	0.05	23.90	3.41	3.17	0.04
21.35	3.31	3.07	0.05	23.95	3.41	3.17	0.04
21.40	3.31	3.07	0.05	24.00	**3.41**	**3.18**	0.04
21.45	3.31	3.08	0.05				
21.50	3.31	3.08	0.05				
21.55	3.31	3.08	0.05				
21.60	3.32	3.08	0.05				
21.65	3.32	3.09	0.05				
21.70	3.32	3.09	0.05				
21.75	3.32	3.09	0.05				
21.80	3.32	3.09	0.05				
21.85	3.33	3.09	0.05				
21.90	3.33	3.10	0.05				
21.95	3.33	3.10	0.05				
22.00	3.33	3.10	0.05				
22.05	3.33	3.10	0.05				
22.10	3.34	3.10	0.05				
22.15	3.34	3.11	0.05				
22.20	3.34	3.11	0.05				
22.25	3.34	3.11	0.05				
22.30	3.35	3.11	0.05				
22.35	3.35	3.11	0.05				
22.40	3.35	3.12	0.05				
22.45	3.35	3.12	0.05				
22.50	3.35	3.12	0.04				
22.55	3.36	3.12	0.04				
22.60	3.36	3.12	0.04				
22.65	3.36	3.13	0.04				
22.70	3.36	3.13	0.04				
22.75	3.36	3.13	0.04				
22.80	3.37	3.13	0.04				
22.85	3.37	3.13	0.04				
22.90	3.37	3.14	0.04				
22.95	3.37	3.14	0.04				
23.00	3.37	3.14	0.04				
23.05	3.37	3.14	0.04				
23.10	3.38	3.14	0.04				
23.15	3.38	3.15	0.04				
23.20	3.38	3.15	0.04				
23.25	3.38	3.15	0.04				
23.30	3.38	3.15	0.04				
23.35	3.39	3.15	0.04				

Summary for Subcatchment PDA3 PERV: PDA3 PERV

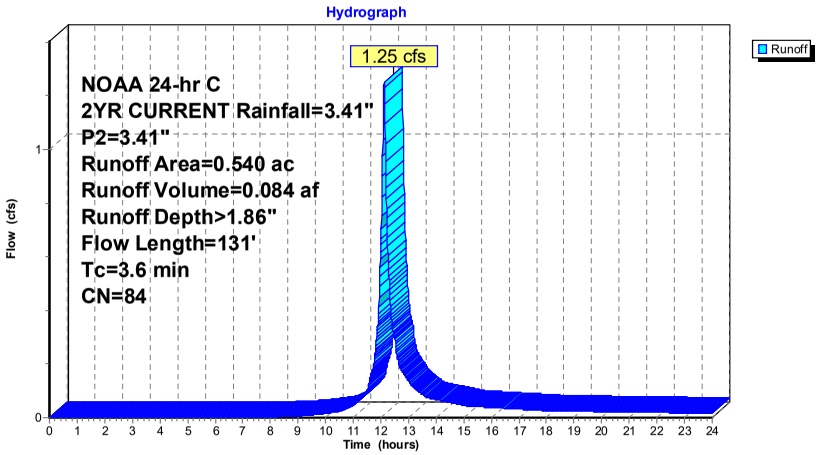
Runoff = 1.25 cfs @ 12.12 hrs, Volume= 0.084 af, Depth> 1.86"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR CURRENT Rainfall=3.41", P2=3.41"

	Area (ac)	CN	Description
*	0.540	84	>75% Grass cover, Good, HSG D
	0.540		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	23	0.0200	0.13		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.1	42	0.0150	5.59	6.86	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
3.6	131	Total			

Subcatchment PDA3 PERV: PDA3 PERV



Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.10	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.10	0.00	0.00
0.10	0.00	0.00	0.00	2.70	0.11	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.11	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.11	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.11	0.00	0.00
0.30	0.01	0.00	0.00	2.90	0.12	0.00	0.00
0.35	0.01	0.00	0.00	2.95	0.12	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.12	0.00	0.00
0.45	0.02	0.00	0.00	3.05	0.12	0.00	0.00
0.50	0.02	0.00	0.00	3.10	0.12	0.00	0.00
0.55	0.02	0.00	0.00	3.15	0.13	0.00	0.00
0.60	0.02	0.00	0.00	3.20	0.13	0.00	0.00
0.65	0.02	0.00	0.00	3.25	0.13	0.00	0.00
0.70	0.03	0.00	0.00	3.30	0.13	0.00	0.00
0.75	0.03	0.00	0.00	3.35	0.14	0.00	0.00
0.80	0.03	0.00	0.00	3.40	0.14	0.00	0.00
0.85	0.03	0.00	0.00	3.45	0.14	0.00	0.00
0.90	0.03	0.00	0.00	3.50	0.14	0.00	0.00
0.95	0.04	0.00	0.00	3.55	0.15	0.00	0.00
1.00	0.04	0.00	0.00	3.60	0.15	0.00	0.00
1.05	0.04	0.00	0.00	3.65	0.15	0.00	0.00
1.10	0.04	0.00	0.00	3.70	0.15	0.00	0.00
1.15	0.04	0.00	0.00	3.75	0.15	0.00	0.00
1.20	0.04	0.00	0.00	3.80	0.16	0.00	0.00
1.25	0.05	0.00	0.00	3.85	0.16	0.00	0.00
1.30	0.05	0.00	0.00	3.90	0.16	0.00	0.00
1.35	0.05	0.00	0.00	3.95	0.16	0.00	0.00
1.40	0.05	0.00	0.00	4.00	0.17	0.00	0.00
1.45	0.05	0.00	0.00	4.05	0.17	0.00	0.00
1.50	0.06	0.00	0.00	4.10	0.17	0.00	0.00
1.55	0.06	0.00	0.00	4.15	0.17	0.00	0.00
1.60	0.06	0.00	0.00	4.20	0.18	0.00	0.00
1.65	0.06	0.00	0.00	4.25	0.18	0.00	0.00
1.70	0.06	0.00	0.00	4.30	0.18	0.00	0.00
1.75	0.07	0.00	0.00	4.35	0.18	0.00	0.00
1.80	0.07	0.00	0.00	4.40	0.19	0.00	0.00
1.85	0.07	0.00	0.00	4.45	0.19	0.00	0.00
1.90	0.07	0.00	0.00	4.50	0.19	0.00	0.00
1.95	0.08	0.00	0.00	4.55	0.19	0.00	0.00
2.00	0.08	0.00	0.00	4.60	0.20	0.00	0.00
2.05	0.08	0.00	0.00	4.65	0.20	0.00	0.00
2.10	0.08	0.00	0.00	4.70	0.20	0.00	0.00
2.15	0.08	0.00	0.00	4.75	0.20	0.00	0.00
2.20	0.09	0.00	0.00	4.80	0.21	0.00	0.00
2.25	0.09	0.00	0.00	4.85	0.21	0.00	0.00
2.30	0.09	0.00	0.00	4.90	0.21	0.00	0.00
2.35	0.09	0.00	0.00	4.95	0.21	0.00	0.00
2.40	0.09	0.00	0.00	5.00	0.22	0.00	0.00
2.45	0.10	0.00	0.00	5.05	0.22	0.00	0.00
2.50	0.10	0.00	0.00	5.10	0.22	0.00	0.00
2.55	0.10	0.00	0.00	5.15	0.22	0.00	0.00

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.23	0.00	0.00	7.80	0.39	0.00	0.00
5.25	0.23	0.00	0.00	7.85	0.40	0.00	0.00
5.30	0.23	0.00	0.00	7.90	0.40	0.00	0.00
5.35	0.24	0.00	0.00	7.95	0.40	0.00	0.00
5.40	0.24	0.00	0.00	8.00	0.41	0.00	0.00
5.45	0.24	0.00	0.00	8.05	0.41	0.00	0.00
5.50	0.24	0.00	0.00	8.10	0.42	0.00	0.00
5.55	0.25	0.00	0.00	8.15	0.42	0.00	0.00
5.60	0.25	0.00	0.00	8.20	0.43	0.00	0.00
5.65	0.25	0.00	0.00	8.25	0.43	0.00	0.00
5.70	0.25	0.00	0.00	8.30	0.43	0.00	0.00
5.75	0.26	0.00	0.00	8.35	0.44	0.00	0.00
5.80	0.26	0.00	0.00	8.40	0.44	0.00	0.00
5.85	0.26	0.00	0.00	8.45	0.45	0.00	0.00
5.90	0.26	0.00	0.00	8.50	0.45	0.00	0.00
5.95	0.27	0.00	0.00	8.55	0.46	0.00	0.00
6.00	0.27	0.00	0.00	8.60	0.46	0.00	0.00
6.05	0.27	0.00	0.00	8.65	0.47	0.00	0.00
6.10	0.28	0.00	0.00	8.70	0.47	0.00	0.00
6.15	0.28	0.00	0.00	8.75	0.47	0.00	0.00
6.20	0.28	0.00	0.00	8.80	0.48	0.00	0.00
6.25	0.28	0.00	0.00	8.85	0.48	0.01	0.00
6.30	0.29	0.00	0.00	8.90	0.49	0.01	0.00
6.35	0.29	0.00	0.00	8.95	0.49	0.01	0.01
6.40	0.29	0.00	0.00	9.00	0.50	0.01	0.01
6.45	0.30	0.00	0.00	9.05	0.50	0.01	0.01
6.50	0.30	0.00	0.00	9.10	0.51	0.01	0.01
6.55	0.30	0.00	0.00	9.15	0.51	0.01	0.01
6.60	0.31	0.00	0.00	9.20	0.52	0.01	0.01
6.65	0.31	0.00	0.00	9.25	0.52	0.01	0.01
6.70	0.31	0.00	0.00	9.30	0.53	0.01	0.01
6.75	0.32	0.00	0.00	9.35	0.54	0.01	0.01
6.80	0.32	0.00	0.00	9.40	0.54	0.01	0.01
6.85	0.32	0.00	0.00	9.45	0.55	0.01	0.01
6.90	0.33	0.00	0.00	9.50	0.55	0.01	0.01
6.95	0.33	0.00	0.00	9.55	0.56	0.02	0.01
7.00	0.33	0.00	0.00	9.60	0.57	0.02	0.01
7.05	0.34	0.00	0.00	9.65	0.57	0.02	0.01
7.10	0.34	0.00	0.00	9.70	0.58	0.02	0.01
7.15	0.34	0.00	0.00	9.75	0.59	0.02	0.01
7.20	0.35	0.00	0.00	9.80	0.59	0.02	0.01
7.25	0.35	0.00	0.00	9.85	0.60	0.02	0.01
7.30	0.35	0.00	0.00	9.90	0.61	0.02	0.01
7.35	0.36	0.00	0.00	9.95	0.61	0.03	0.02
7.40	0.36	0.00	0.00	10.00	0.62	0.03	0.02
7.45	0.37	0.00	0.00	10.05	0.63	0.03	0.02
7.50	0.37	0.00	0.00	10.10	0.64	0.03	0.02
7.55	0.37	0.00	0.00	10.15	0.64	0.03	0.02
7.60	0.38	0.00	0.00	10.20	0.65	0.03	0.02
7.65	0.38	0.00	0.00	10.25	0.66	0.04	0.02
7.70	0.38	0.00	0.00	10.30	0.67	0.04	0.02
7.75	0.39	0.00	0.00	10.35	0.68	0.04	0.02

pre and post projected rainfall *NOAA 24-hr C 2YR CURRENT Rainfall=3.41", P2=3.41"*
Prepared by Pennoni Associates, Inc Printed 3/31/2026
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Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.69	0.04	0.02	13.00	2.59	1.19	0.14
10.45	0.69	0.04	0.02	13.05	2.61	1.20	0.13
10.50	0.70	0.05	0.02	13.10	2.62	1.21	0.12
10.55	0.71	0.05	0.03	13.15	2.63	1.22	0.12
10.60	0.72	0.05	0.03	13.20	2.64	1.23	0.11
10.65	0.73	0.05	0.03	13.25	2.66	1.24	0.11
10.70	0.74	0.06	0.03	13.30	2.67	1.25	0.10
10.75	0.75	0.06	0.03	13.35	2.68	1.26	0.10
10.80	0.77	0.06	0.04	13.40	2.69	1.26	0.09
10.85	0.78	0.07	0.04	13.45	2.70	1.27	0.09
10.90	0.79	0.07	0.04	13.50	2.71	1.28	0.09
10.95	0.80	0.08	0.04	13.55	2.72	1.29	0.08
11.00	0.82	0.08	0.05	13.60	2.72	1.29	0.08
11.05	0.83	0.09	0.05	13.65	2.73	1.30	0.08
11.10	0.85	0.09	0.05	13.70	2.74	1.31	0.07
11.15	0.87	0.10	0.06	13.75	2.75	1.31	0.07
11.20	0.88	0.10	0.06	13.80	2.76	1.32	0.07
11.25	0.90	0.11	0.07	13.85	2.77	1.33	0.07
11.30	0.92	0.12	0.07	13.90	2.77	1.33	0.07
11.35	0.94	0.13	0.08	13.95	2.78	1.34	0.07
11.40	0.96	0.14	0.09	14.00	2.79	1.34	0.07
11.45	0.99	0.15	0.09	14.05	2.80	1.35	0.07
11.50	1.01	0.16	0.10	14.10	2.80	1.36	0.07
11.55	1.04	0.17	0.12	14.15	2.81	1.36	0.06
11.60	1.08	0.19	0.14	14.20	2.82	1.37	0.06
11.65	1.11	0.20	0.16	14.25	2.82	1.37	0.06
11.70	1.15	0.22	0.18	14.30	2.83	1.38	0.06
11.75	1.20	0.25	0.21	14.35	2.84	1.38	0.06
11.80	1.25	0.27	0.24	14.40	2.84	1.39	0.06
11.85	1.32	0.31	0.30	14.45	2.85	1.39	0.06
11.90	1.39	0.35	0.36	14.50	2.86	1.40	0.06
11.95	1.51	0.42	0.49	14.55	2.86	1.40	0.06
12.00	1.63	0.49	0.64	14.60	2.87	1.41	0.05
12.05	1.82	0.62	0.90	14.65	2.87	1.41	0.05
12.10	2.02	0.76	**1.20**	14.70	2.88	1.42	0.05
12.15	2.09	0.81	**1.09**	14.75	2.89	1.42	0.05
12.20	2.16	0.86	0.81	14.80	2.89	1.43	0.05
12.25	2.21	0.90	0.64	14.85	2.90	1.43	0.05
12.30	2.26	0.93	0.51	14.90	2.90	1.44	0.05
12.35	2.30	0.96	0.42	14.95	2.91	1.44	0.05
12.40	2.33	0.99	0.35	15.00	2.91	1.44	0.05
12.45	2.37	1.01	0.32	15.05	2.92	1.45	0.04
12.50	2.40	1.04	0.30	15.10	2.92	1.45	0.04
12.55	2.42	1.06	0.26	15.15	2.93	1.46	0.04
12.60	2.45	1.07	0.22	15.20	2.93	1.46	0.04
12.65	2.47	1.09	0.20	15.25	2.94	1.46	0.04
12.70	2.49	1.11	0.19	15.30	2.94	1.47	0.04
12.75	2.51	1.12	0.18	15.35	2.94	1.47	0.04
12.80	2.53	1.14	0.17	15.40	2.95	1.47	0.04
12.85	2.54	1.15	0.16	15.45	2.95	1.48	0.04
12.90	2.56	1.16	0.15	15.50	2.96	1.48	0.04
12.95	2.58	1.18	0.14	15.55	2.96	1.49	0.04

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	2.97	1.49	0.04	18.20	3.15	1.64	0.02
15.65	2.97	1.49	0.04	18.25	3.15	1.64	0.02
15.70	2.98	1.50	0.04	18.30	3.16	1.65	0.02
15.75	2.98	1.50	0.04	18.35	3.16	1.65	0.02
15.80	2.98	1.50	0.04	18.40	3.16	1.65	0.02
15.85	2.99	1.51	0.04	18.45	3.16	1.65	0.02
15.90	2.99	1.51	0.04	18.50	3.17	1.65	0.02
15.95	3.00	1.51	0.04	18.55	3.17	1.66	0.02
16.00	3.00	1.52	0.04	18.60	3.17	1.66	0.02
16.05	3.01	1.52	0.04	18.65	3.17	1.66	0.02
16.10	3.01	1.52	0.04	18.70	3.18	1.66	0.02
16.15	3.01	1.53	0.04	18.75	3.18	1.67	0.02
16.20	3.02	1.53	0.04	18.80	3.18	1.67	0.02
16.25	3.02	1.53	0.04	18.85	3.19	1.67	0.02
16.30	3.03	1.54	0.04	18.90	3.19	1.67	0.02
16.35	3.03	1.54	0.04	18.95	3.19	1.67	0.02
16.40	3.03	1.54	0.04	19.00	3.19	1.68	0.02
16.45	3.04	1.55	0.03	19.05	3.20	1.68	0.02
16.50	3.04	1.55	0.03	19.10	3.20	1.68	0.02
16.55	3.04	1.55	0.03	19.15	3.20	1.68	0.02
16.60	3.05	1.56	0.03	19.20	3.20	1.69	0.02
16.65	3.05	1.56	0.03	19.25	3.21	1.69	0.02
16.70	3.06	1.56	0.03	19.30	3.21	1.69	0.02
16.75	3.06	1.57	0.03	19.35	3.21	1.69	0.02
16.80	3.06	1.57	0.03	19.40	3.21	1.69	0.02
16.85	3.07	1.57	0.03	19.45	3.22	1.70	0.02
16.90	3.07	1.57	0.03	19.50	3.22	1.70	0.02
16.95	3.07	1.58	0.03	19.55	3.22	1.70	0.02
17.00	3.08	1.58	0.03	19.60	3.22	1.70	0.02
17.05	3.08	1.58	0.03	19.65	3.23	1.70	0.02
17.10	3.08	1.59	0.03	19.70	3.23	1.71	0.02
17.15	3.09	1.59	0.03	19.75	3.23	1.71	0.02
17.20	3.09	1.59	0.03	19.80	3.23	1.71	0.02
17.25	3.09	1.59	0.03	19.85	3.24	1.71	0.02
17.30	3.10	1.60	0.03	19.90	3.24	1.71	0.02
17.35	3.10	1.60	0.03	19.95	3.24	1.72	0.02
17.40	3.10	1.60	0.03	20.00	3.24	1.72	0.02
17.45	3.11	1.60	0.03	20.05	3.25	1.72	0.02
17.50	3.11	1.61	0.03	20.10	3.25	1.72	0.02
17.55	3.11	1.61	0.03	20.15	3.25	1.72	0.02
17.60	3.12	1.61	0.03	20.20	3.25	1.73	0.02
17.65	3.12	1.62	0.03	20.25	3.26	1.73	0.02
17.70	3.12	1.62	0.03	20.30	3.26	1.73	0.02
17.75	3.13	1.62	0.03	20.35	3.26	1.73	0.02
17.80	3.13	1.62	0.03	20.40	3.26	1.73	0.02
17.85	3.13	1.62	0.03	20.45	3.26	1.74	0.02
17.90	3.13	1.63	0.03	20.50	3.27	1.74	0.02
17.95	3.14	1.63	0.03	20.55	3.27	1.74	0.02
18.00	3.14	1.63	0.03	20.60	3.27	1.74	0.02
18.05	3.14	1.63	0.03	20.65	3.27	1.74	0.02
18.10	3.15	1.64	0.03	20.70	3.28	1.75	0.02
18.15	3.15	1.64	0.02	20.75	3.28	1.75	0.02

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.28	1.75	0.02	23.40	3.39	1.84	0.02
20.85	3.28	1.75	0.02	23.45	3.39	1.84	0.02
20.90	3.29	1.75	0.02	23.50	3.39	1.84	0.02
20.95	3.29	1.76	0.02	23.55	3.39	1.85	0.02
21.00	3.29	1.76	0.02	23.60	3.39	1.85	0.02
21.05	3.29	1.76	0.02	23.65	3.40	1.85	0.02
21.10	3.29	1.76	0.02	23.70	3.40	1.85	0.02
21.15	3.30	1.76	0.02	23.75	3.40	1.85	0.02
21.20	3.30	1.77	0.02	23.80	3.40	1.85	0.02
21.25	3.30	1.77	0.02	23.85	3.40	1.85	0.02
21.30	3.30	1.77	0.02	23.90	3.41	1.86	0.02
21.35	3.31	1.77	0.02	23.95	3.41	1.86	0.02
21.40	3.31	1.77	0.02	24.00	**3.41**	**1.86**	0.02
21.45	3.31	1.77	0.02				
21.50	3.31	1.78	0.02				
21.55	3.31	1.78	0.02				
21.60	3.32	1.78	0.02				
21.65	3.32	1.78	0.02				
21.70	3.32	1.78	0.02				
21.75	3.32	1.79	0.02				
21.80	3.32	1.79	0.02				
21.85	3.33	1.79	0.02				
21.90	3.33	1.79	0.02				
21.95	3.33	1.79	0.02				
22.00	3.33	1.79	0.02				
22.05	3.33	1.80	0.02				
22.10	3.34	1.80	0.02				
22.15	3.34	1.80	0.02				
22.20	3.34	1.80	0.02				
22.25	3.34	1.80	0.02				
22.30	3.35	1.80	0.02				
22.35	3.35	1.81	0.02				
22.40	3.35	1.81	0.02				
22.45	3.35	1.81	0.02				
22.50	3.35	1.81	0.02				
22.55	3.36	1.81	0.02				
22.60	3.36	1.81	0.02				
22.65	3.36	1.82	0.02				
22.70	3.36	1.82	0.02				
22.75	3.36	1.82	0.02				
22.80	3.37	1.82	0.02				
22.85	3.37	1.82	0.02				
22.90	3.37	1.82	0.02				
22.95	3.37	1.83	0.02				
23.00	3.37	1.83	0.02				
23.05	3.37	1.83	0.02				
23.10	3.38	1.83	0.02				
23.15	3.38	1.83	0.02				
23.20	3.38	1.83	0.02				
23.25	3.38	1.84	0.02				
23.30	3.38	1.84	0.02				
23.35	3.39	1.84	0.02				

Summary for Subcatchment PDA4 IMP: PDA4 IMP

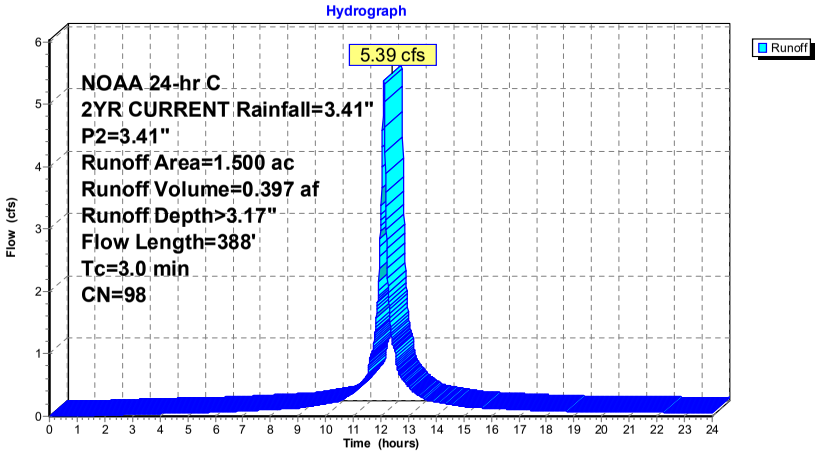
Runoff = 5.39 cfs @ 12.11 hrs, Volume= 0.397 af, Depth> 3.17"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR CURRENT Rainfall=3.41", P2=3.41"

	Area (ac)	CN	Description
*	1.500	98	Impervious vehicular
	1.500		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	100	0.0160	1.30		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.6	88	0.0150	2.49		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.5	100	0.0039	3.22	5.69	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.6	100	0.0020	2.79	8.77	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
3.0	388	Total			

Subcatchment PDA4 IMP: PDA4 IMP



Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.10	0.01	0.03
0.05	0.00	0.00	0.00	2.65	0.10	0.02	0.03
0.10	0.00	0.00	0.00	2.70	0.11	0.02	0.03
0.15	0.01	0.00	0.00	2.75	0.11	0.02	0.03
0.20	0.01	0.00	0.00	2.80	0.11	0.02	0.03
0.25	0.01	0.00	0.00	2.85	0.11	0.02	0.03
0.30	0.01	0.00	0.00	2.90	0.12	0.02	0.03
0.35	0.01	0.00	0.00	2.95	0.12	0.02	0.03
0.40	0.02	0.00	0.00	3.00	0.12	0.02	0.03
0.45	0.02	0.00	0.00	3.05	0.12	0.02	0.03
0.50	0.02	0.00	0.00	3.10	0.12	0.02	0.03
0.55	0.02	0.00	0.00	3.15	0.13	0.03	0.03
0.60	0.02	0.00	0.00	3.20	0.13	0.03	0.03
0.65	0.02	0.00	0.00	3.25	0.13	0.03	0.04
0.70	0.03	0.00	0.00	3.30	0.13	0.03	0.04
0.75	0.03	0.00	0.00	3.35	0.14	0.03	0.04
0.80	0.03	0.00	0.00	3.40	0.14	0.03	0.04
0.85	0.03	0.00	0.00	3.45	0.14	0.03	0.04
0.90	0.03	0.00	0.00	3.50	0.14	0.03	0.04
0.95	0.04	0.00	0.00	3.55	0.15	0.04	0.04
1.00	0.04	0.00	0.00	3.60	0.15	0.04	0.04
1.05	0.04	0.00	0.00	3.65	0.15	0.04	0.04
1.10	0.04	0.00	0.00	3.70	0.15	0.04	0.04
1.15	0.04	0.00	0.00	3.75	0.15	0.04	0.04
1.20	0.04	0.00	0.00	3.80	0.16	0.04	0.04
1.25	0.05	0.00	0.00	3.85	0.16	0.04	0.04
1.30	0.05	0.00	0.00	3.90	0.16	0.05	0.04
1.35	0.05	0.00	0.00	3.95	0.16	0.05	0.04
1.40	0.05	0.00	0.00	4.00	0.17	0.05	0.04
1.45	0.05	0.00	0.01	4.05	0.17	0.05	0.04
1.50	0.06	0.00	0.01	4.10	0.17	0.05	0.05
1.55	0.06	0.00	0.01	4.15	0.17	0.05	0.05
1.60	0.06	0.00	0.01	4.20	0.18	0.05	0.05
1.65	0.06	0.00	0.01	4.25	0.18	0.06	0.05
1.70	0.06	0.00	0.01	4.30	0.18	0.06	0.05
1.75	0.07	0.00	0.01	4.35	0.18	0.06	0.05
1.80	0.07	0.00	0.01	4.40	0.19	0.06	0.05
1.85	0.07	0.00	0.01	4.45	0.19	0.06	0.05
1.90	0.07	0.00	0.01	4.50	0.19	0.06	0.05
1.95	0.08	0.00	0.02	4.55	0.19	0.07	0.05
2.00	0.08	0.01	0.02	4.60	0.20	0.07	0.05
2.05	0.08	0.01	0.02	4.65	0.20	0.07	0.05
2.10	0.08	0.01	0.02	4.70	0.20	0.07	0.05
2.15	0.08	0.01	0.02	4.75	0.20	0.07	0.05
2.20	0.09	0.01	0.02	4.80	0.21	0.07	0.05
2.25	0.09	0.01	0.02	4.85	0.21	0.08	0.05
2.30	0.09	0.01	0.02	4.90	0.21	0.08	0.05
2.35	0.09	0.01	0.02	4.95	0.21	0.08	0.05
2.40	0.09	0.01	0.02	5.00	0.22	0.08	0.05
2.45	0.10	0.01	0.02	5.05	0.22	0.08	0.06
2.50	0.10	0.01	0.02	5.10	0.22	0.09	0.06
2.55	0.10	0.01	0.03	5.15	0.22	0.09	0.06

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.23	0.09	0.06	7.80	0.39	0.22	0.10
5.25	0.23	0.09	0.06	7.85	0.40	0.23	0.10
5.30	0.23	0.09	0.06	7.90	0.40	0.23	0.11
5.35	0.24	0.09	0.06	7.95	0.40	0.23	0.11
5.40	0.24	0.10	0.06	8.00	0.41	0.24	0.11
5.45	0.24	0.10	0.06	8.05	0.41	0.24	0.11
5.50	0.24	0.10	0.06	8.10	0.42	0.24	0.11
5.55	0.25	0.10	0.06	8.15	0.42	0.25	0.11
5.60	0.25	0.10	0.06	8.20	0.43	0.25	0.11
5.65	0.25	0.11	0.06	8.25	0.43	0.26	0.11
5.70	0.25	0.11	0.06	8.30	0.43	0.26	0.11
5.75	0.26	0.11	0.06	8.35	0.44	0.26	0.12
5.80	0.26	0.11	0.06	8.40	0.44	0.27	0.12
5.85	0.26	0.12	0.06	8.45	0.45	0.27	0.12
5.90	0.26	0.12	0.06	8.50	0.45	0.27	0.12
5.95	0.27	0.12	0.06	8.55	0.46	0.28	0.12
6.00	0.27	0.12	0.06	8.60	0.46	0.28	0.12
6.05	0.27	0.12	0.07	8.65	0.47	0.29	0.12
6.10	0.28	0.13	0.07	8.70	0.47	0.29	0.12
6.15	0.28	0.13	0.07	8.75	0.47	0.29	0.12
6.20	0.28	0.13	0.07	8.80	0.48	0.30	0.13
6.25	0.28	0.13	0.07	8.85	0.48	0.30	0.13
6.30	0.29	0.14	0.07	8.90	0.49	0.31	0.13
6.35	0.29	0.14	0.07	8.95	0.49	0.31	0.13
6.40	0.29	0.14	0.07	9.00	0.50	0.32	0.13
6.45	0.30	0.14	0.07	9.05	0.50	0.32	0.13
6.50	0.30	0.14	0.07	9.10	0.51	0.33	0.14
6.55	0.30	0.15	0.08	9.15	0.51	0.33	0.14
6.60	0.31	0.15	0.08	9.20	0.52	0.33	0.14
6.65	0.31	0.15	0.08	9.25	0.52	0.34	0.15
6.70	0.31	0.16	0.08	9.30	0.53	0.34	0.15
6.75	0.32	0.16	0.08	9.35	0.54	0.35	0.16
6.80	0.32	0.16	0.08	9.40	0.54	0.36	0.16
6.85	0.32	0.16	0.08	9.45	0.55	0.36	0.16
6.90	0.33	0.17	0.08	9.50	0.55	0.37	0.17
6.95	0.33	0.17	0.08	9.55	0.56	0.37	0.17
7.00	0.33	0.17	0.09	9.60	0.57	0.38	0.17
7.05	0.34	0.17	0.09	9.65	0.57	0.38	0.18
7.10	0.34	0.18	0.09	9.70	0.58	0.39	0.18
7.15	0.34	0.18	0.09	9.75	0.59	0.40	0.19
7.20	0.35	0.18	0.09	9.80	0.59	0.40	0.19
7.25	0.35	0.19	0.09	9.85	0.60	0.41	0.19
7.30	0.35	0.19	0.09	9.90	0.61	0.42	0.20
7.35	0.36	0.19	0.09	9.95	0.61	0.42	0.20
7.40	0.36	0.20	0.09	10.00	0.62	0.43	0.20
7.45	0.37	0.20	0.10	10.05	0.63	0.44	0.21
7.50	0.37	0.20	0.10	10.10	0.64	0.44	0.21
7.55	0.37	0.21	0.10	10.15	0.64	0.45	0.22
7.60	0.38	0.21	0.10	10.20	0.65	0.46	0.22
7.65	0.38	0.21	0.10	10.25	0.66	0.47	0.22
7.70	0.38	0.22	0.10	10.30	0.67	0.47	0.23
7.75	0.39	0.22	0.10	10.35	0.68	0.48	0.23

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.69	0.49	0.24	13.00	2.59	2.36	0.48
10.45	0.69	0.50	0.24	13.05	2.61	2.38	0.45
10.50	0.70	0.51	0.24	13.10	2.62	2.39	0.42
10.55	0.71	0.52	0.26	13.15	2.63	2.40	0.40
10.60	0.72	0.52	0.27	13.20	2.64	2.41	0.39
10.65	0.73	0.53	0.28	13.25	2.66	2.43	0.37
10.70	0.74	0.54	0.29	13.30	2.67	2.44	0.36
10.75	0.75	0.56	0.31	13.35	2.68	2.45	0.34
10.80	0.77	0.57	0.32	13.40	2.69	2.46	0.33
10.85	0.78	0.58	0.34	13.45	2.70	2.47	0.31
10.90	0.79	0.59	0.35	13.50	2.71	2.48	0.30
10.95	0.80	0.60	0.37	13.55	2.72	2.49	0.28
11.00	0.82	0.62	0.38	13.60	2.72	2.49	0.27
11.05	0.83	0.63	0.41	13.65	2.73	2.50	0.26
11.10	0.85	0.65	0.43	13.70	2.74	2.51	0.25
11.15	0.87	0.66	0.46	13.75	2.75	2.52	0.25
11.20	0.88	0.68	0.48	13.80	2.76	2.53	0.25
11.25	0.90	0.70	0.51	13.85	2.77	2.53	0.24
11.30	0.92	0.71	0.54	13.90	2.77	2.54	0.24
11.35	0.94	0.74	0.57	13.95	2.78	2.55	0.23
11.40	0.96	0.76	0.59	14.00	2.79	2.56	0.23
11.45	0.99	0.78	0.62	14.05	2.80	2.56	0.23
11.50	1.01	0.80	0.64	14.10	2.80	2.57	0.22
11.55	1.04	0.83	0.78	14.15	2.81	2.58	0.22
11.60	1.08	0.87	0.92	14.20	2.82	2.59	0.22
11.65	1.11	0.90	1.00	14.25	2.82	2.59	0.21
11.70	1.15	0.94	1.04	14.30	2.83	2.60	0.21
11.75	1.20	0.98	1.21	14.35	2.84	2.61	0.20
11.80	1.25	1.03	1.37	14.40	2.84	2.61	0.20
11.85	1.32	1.10	1.65	14.45	2.85	2.62	0.20
11.90	1.39	1.17	1.89	14.50	2.86	2.63	0.19
11.95	1.51	1.29	2.56	14.55	2.86	2.63	0.19
12.00	1.63	1.40	3.15	14.60	2.87	2.64	0.18
12.05	1.82	1.60	4.31	14.65	2.87	2.64	0.18
12.10	2.02	1.80	**5.29**	14.70	2.88	2.65	0.18
12.15	2.09	1.87	**4.22**	14.75	2.89	2.65	0.17
12.20	2.16	1.93	2.99	14.80	2.89	2.66	0.17
12.25	2.21	1.98	2.22	14.85	2.90	2.67	0.17
12.30	2.26	2.03	1.76	14.90	2.90	2.67	0.16
12.35	2.30	2.07	1.43	14.95	2.91	2.68	0.16
12.40	2.33	2.11	1.22	15.00	2.91	2.68	0.15
12.45	2.37	2.14	1.12	15.05	2.92	2.69	0.15
12.50	2.40	2.17	1.06	15.10	2.92	2.69	0.15
12.55	2.42	2.20	0.91	15.15	2.93	2.69	0.14
12.60	2.45	2.22	0.77	15.20	2.93	2.70	0.14
12.65	2.47	2.24	0.69	15.25	2.94	2.70	0.14
12.70	2.49	2.26	0.65	15.30	2.94	2.71	0.14
12.75	2.51	2.28	0.61	15.35	2.94	2.71	0.14
12.80	2.53	2.30	0.59	15.40	2.95	2.72	0.14
12.85	2.54	2.31	0.56	15.45	2.95	2.72	0.14
12.90	2.56	2.33	0.53	15.50	2.96	2.73	0.14
12.95	2.58	2.35	0.50	15.55	2.96	2.73	0.14

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	2.97	2.74	0.13	18.20	3.15	2.92	0.08
15.65	2.97	2.74	0.13	18.25	3.15	2.92	0.08
15.70	2.98	2.74	0.13	18.30	3.16	2.92	0.08
15.75	2.98	2.75	0.13	18.35	3.16	2.93	0.08
15.80	2.98	2.75	0.13	18.40	3.16	2.93	0.08
15.85	2.99	2.76	0.13	18.45	3.16	2.93	0.08
15.90	2.99	2.76	0.13	18.50	3.17	2.93	0.08
15.95	3.00	2.77	0.13	18.55	3.17	2.94	0.08
16.00	3.00	2.77	0.13	18.60	3.17	2.94	0.08
16.05	3.01	2.77	0.13	18.65	3.17	2.94	0.08
16.10	3.01	2.78	0.12	18.70	3.18	2.95	0.08
16.15	3.01	2.78	0.12	18.75	3.18	2.95	0.08
16.20	3.02	2.79	0.12	18.80	3.18	2.95	0.08
16.25	3.02	2.79	0.12	18.85	3.19	2.95	0.08
16.30	3.03	2.79	0.12	18.90	3.19	2.96	0.08
16.35	3.03	2.80	0.12	18.95	3.19	2.96	0.08
16.40	3.03	2.80	0.12	19.00	3.19	2.96	0.08
16.45	3.04	2.81	0.12	19.05	3.20	2.96	0.08
16.50	3.04	2.81	0.12	19.10	3.20	2.97	0.08
16.55	3.04	2.81	0.11	19.15	3.20	2.97	0.08
16.60	3.05	2.82	0.11	19.20	3.20	2.97	0.08
16.65	3.05	2.82	0.11	19.25	3.21	2.97	0.08
16.70	3.06	2.82	0.11	19.30	3.21	2.98	0.08
16.75	3.06	2.83	0.11	19.35	3.21	2.98	0.08
16.80	3.06	2.83	0.11	19.40	3.21	2.98	0.08
16.85	3.07	2.83	0.11	19.45	3.22	2.98	0.08
16.90	3.07	2.84	0.11	19.50	3.22	2.99	0.08
16.95	3.07	2.84	0.11	19.55	3.22	2.99	0.08
17.00	3.08	2.85	0.11	19.60	3.22	2.99	0.08
17.05	3.08	2.85	0.10	19.65	3.23	2.99	0.07
17.10	3.08	2.85	0.10	19.70	3.23	3.00	0.07
17.15	3.09	2.86	0.10	19.75	3.23	3.00	0.07
17.20	3.09	2.86	0.10	19.80	3.23	3.00	0.07
17.25	3.09	2.86	0.10	19.85	3.24	3.00	0.07
17.30	3.10	2.87	0.10	19.90	3.24	3.01	0.07
17.35	3.10	2.87	0.10	19.95	3.24	3.01	0.07
17.40	3.10	2.87	0.10	20.00	3.24	3.01	0.07
17.45	3.11	2.87	0.10	20.05	3.25	3.01	0.07
17.50	3.11	2.88	0.10	20.10	3.25	3.02	0.07
17.55	3.11	2.88	0.09	20.15	3.25	3.02	0.07
17.60	3.12	2.88	0.09	20.20	3.25	3.02	0.07
17.65	3.12	2.89	0.09	20.25	3.26	3.02	0.07
17.70	3.12	2.89	0.09	20.30	3.26	3.02	0.07
17.75	3.13	2.89	0.09	20.35	3.26	3.03	0.07
17.80	3.13	2.90	0.09	20.40	3.26	3.03	0.07
17.85	3.13	2.90	0.09	20.45	3.26	3.03	0.07
17.90	3.13	2.90	0.09	20.50	3.27	3.03	0.07
17.95	3.14	2.90	0.09	20.55	3.27	3.04	0.07
18.00	3.14	2.91	0.09	20.60	3.27	3.04	0.07
18.05	3.14	2.91	0.08	20.65	3.27	3.04	0.07
18.10	3.15	2.91	0.08	20.70	3.28	3.04	0.07
18.15	3.15	2.92	0.08	20.75	3.28	3.05	0.07

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

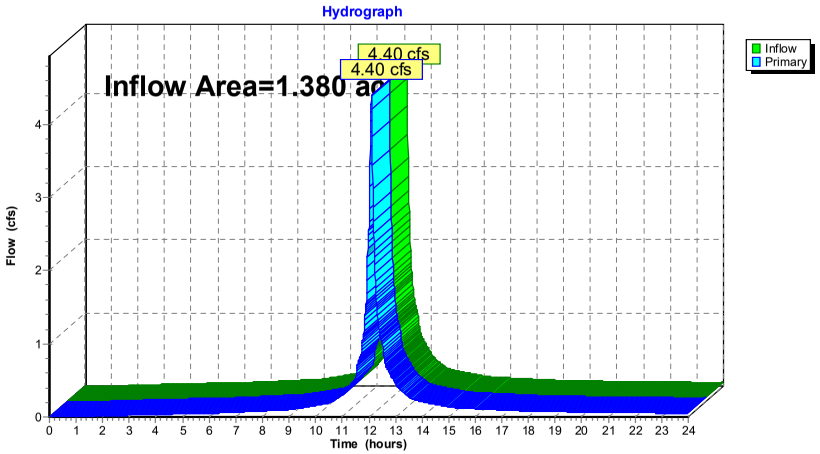
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.28	3.05	0.07	23.40	3.39	3.15	0.06
20.85	3.28	3.05	0.07	23.45	3.39	3.16	0.06
20.90	3.29	3.05	0.07	23.50	3.39	3.16	0.06
20.95	3.29	3.05	0.07	23.55	3.39	3.16	0.05
21.00	3.29	3.06	0.07	23.60	3.39	3.16	0.05
21.05	3.29	3.06	0.07	23.65	3.40	3.16	0.05
21.10	3.29	3.06	0.07	23.70	3.40	3.17	0.05
21.15	3.30	3.06	0.07	23.75	3.40	3.17	0.05
21.20	3.30	3.07	0.07	23.80	3.40	3.17	0.05
21.25	3.30	3.07	0.07	23.85	3.40	3.17	0.05
21.30	3.30	3.07	0.07	23.90	3.41	3.17	0.05
21.35	3.31	3.07	0.07	23.95	3.41	3.17	0.06
21.40	3.31	3.07	0.07	24.00	**3.41**	**3.18**	0.06
21.45	3.31	3.08	0.07				
21.50	3.31	3.08	0.07				
21.55	3.31	3.08	0.07				
21.60	3.32	3.08	0.06				
21.65	3.32	3.09	0.06				
21.70	3.32	3.09	0.06				
21.75	3.32	3.09	0.06				
21.80	3.32	3.09	0.06				
21.85	3.33	3.09	0.06				
21.90	3.33	3.10	0.06				
21.95	3.33	3.10	0.06				
22.00	3.33	3.10	0.06				
22.05	3.33	3.10	0.06				
22.10	3.34	3.10	0.06				
22.15	3.34	3.11	0.06				
22.20	3.34	3.11	0.06				
22.25	3.34	3.11	0.06				
22.30	3.35	3.11	0.06				
22.35	3.35	3.11	0.06				
22.40	3.35	3.12	0.06				
22.45	3.35	3.12	0.06				
22.50	3.35	3.12	0.06				
22.55	3.36	3.12	0.06				
22.60	3.36	3.12	0.06				
22.65	3.36	3.13	0.06				
22.70	3.36	3.13	0.06				
22.75	3.36	3.13	0.06				
22.80	3.37	3.13	0.06				
22.85	3.37	3.13	0.06				
22.90	3.37	3.14	0.06				
22.95	3.37	3.14	0.06				
23.00	3.37	3.14	0.06				
23.05	3.37	3.14	0.06				
23.10	3.38	3.14	0.06				
23.15	3.38	3.15	0.06				
23.20	3.38	3.15	0.06				
23.25	3.38	3.15	0.06				
23.30	3.38	3.15	0.06				
23.35	3.39	3.15	0.06				

Summary for Link P1A: P1A

Inflow Area = 1.380 ac, 80.43% Impervious, Inflow Depth > 2.91" for 2YR CURRENT event
Inflow = 4.40 cfs @ 12.11 hrs, Volume= 0.335 af
Primary = 4.40 cfs @ 12.11 hrs, Volume= 0.335 af, Atten= 0%, Lag= 0.0 min
Routed to Link PPOI-1 : PPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link P1A: P1A



Hydrograph for Link P1A: P1A

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.02	0.00	0.02
0.05	0.00	0.00	0.00	2.65	0.02	0.00	0.02
0.10	0.00	0.00	0.00	2.70	0.02	0.00	0.02
0.15	0.00	0.00	0.00	2.75	0.02	0.00	0.02
0.20	0.00	0.00	0.00	2.80	0.02	0.00	0.02
0.25	0.00	0.00	0.00	2.85	0.02	0.00	0.02
0.30	0.00	0.00	0.00	2.90	0.02	0.00	0.02
0.35	0.00	0.00	0.00	2.95	0.02	0.00	0.02
0.40	0.00	0.00	0.00	3.00	0.02	0.00	0.02
0.45	0.00	0.00	0.00	3.05	0.02	0.00	0.02
0.50	0.00	0.00	0.00	3.10	0.02	0.00	0.02
0.55	0.00	0.00	0.00	3.15	0.03	0.00	0.03
0.60	0.00	0.00	0.00	3.20	0.03	0.00	0.03
0.65	0.00	0.00	0.00	3.25	0.03	0.00	0.03
0.70	0.00	0.00	0.00	3.30	0.03	0.00	0.03
0.75	0.00	0.00	0.00	3.35	0.03	0.00	0.03
0.80	0.00	0.00	0.00	3.40	0.03	0.00	0.03
0.85	0.00	0.00	0.00	3.45	0.03	0.00	0.03
0.90	0.00	0.00	0.00	3.50	0.03	0.00	0.03
0.95	0.00	0.00	0.00	3.55	0.03	0.00	0.03
1.00	0.00	0.00	0.00	3.60	0.03	0.00	0.03
1.05	0.00	0.00	0.00	3.65	0.03	0.00	0.03
1.10	0.00	0.00	0.00	3.70	0.03	0.00	0.03
1.15	0.00	0.00	0.00	3.75	0.03	0.00	0.03
1.20	0.00	0.00	0.00	3.80	0.03	0.00	0.03
1.25	0.00	0.00	0.00	3.85	0.03	0.00	0.03
1.30	0.00	0.00	0.00	3.90	0.03	0.00	0.03
1.35	0.00	0.00	0.00	3.95	0.03	0.00	0.03
1.40	0.00	0.00	0.00	4.00	0.03	0.00	0.03
1.45	0.00	0.00	0.00	4.05	0.03	0.00	0.03
1.50	0.01	0.00	0.01	4.10	0.03	0.00	0.03
1.55	0.01	0.00	0.01	4.15	0.03	0.00	0.03
1.60	0.01	0.00	0.01	4.20	0.03	0.00	0.03
1.65	0.01	0.00	0.01	4.25	0.04	0.00	0.04
1.70	0.01	0.00	0.01	4.30	0.04	0.00	0.04
1.75	0.01	0.00	0.01	4.35	0.04	0.00	0.04
1.80	0.01	0.00	0.01	4.40	0.04	0.00	0.04
1.85	0.01	0.00	0.01	4.45	0.04	0.00	0.04
1.90	0.01	0.00	0.01	4.50	0.04	0.00	0.04
1.95	0.01	0.00	0.01	4.55	0.04	0.00	0.04
2.00	0.01	0.00	0.01	4.60	0.04	0.00	0.04
2.05	0.01	0.00	0.01	4.65	0.04	0.00	0.04
2.10	0.01	0.00	0.01	4.70	0.04	0.00	0.04
2.15	0.01	0.00	0.01	4.75	0.04	0.00	0.04
2.20	0.01	0.00	0.01	4.80	0.04	0.00	0.04
2.25	0.02	0.00	0.02	4.85	0.04	0.00	0.04
2.30	0.02	0.00	0.02	4.90	0.04	0.00	0.04
2.35	0.02	0.00	0.02	4.95	0.04	0.00	0.04
2.40	0.02	0.00	0.02	5.00	0.04	0.00	0.04
2.45	0.02	0.00	0.02	5.05	0.04	0.00	0.04
2.50	0.02	0.00	0.02	5.10	0.04	0.00	0.04
2.55	0.02	0.00	0.02	5.15	0.04	0.00	0.04

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.04	0.00	0.04	7.80	0.08	0.00	0.08
5.25	0.04	0.00	0.04	7.85	0.08	0.00	0.08
5.30	0.04	0.00	0.04	7.90	0.08	0.00	0.08
5.35	0.04	0.00	0.04	7.95	0.08	0.00	0.08
5.40	0.04	0.00	0.04	8.00	0.08	0.00	0.08
5.45	0.04	0.00	0.04	8.05	0.08	0.00	0.08
5.50	0.04	0.00	0.04	8.10	0.08	0.00	0.08
5.55	0.04	0.00	0.04	8.15	0.08	0.00	0.08
5.60	0.04	0.00	0.04	8.20	0.08	0.00	0.08
5.65	0.05	0.00	0.05	8.25	0.08	0.00	0.08
5.70	0.05	0.00	0.05	8.30	0.09	0.00	0.09
5.75	0.05	0.00	0.05	8.35	0.09	0.00	0.09
5.80	0.05	0.00	0.05	8.40	0.09	0.00	0.09
5.85	0.05	0.00	0.05	8.45	0.09	0.00	0.09
5.90	0.05	0.00	0.05	8.50	0.09	0.00	0.09
5.95	0.05	0.00	0.05	8.55	0.09	0.00	0.09
6.00	0.05	0.00	0.05	8.60	0.09	0.00	0.09
6.05	0.05	0.00	0.05	8.65	0.09	0.00	0.09
6.10	0.05	0.00	0.05	8.70	0.09	0.00	0.09
6.15	0.05	0.00	0.05	8.75	0.09	0.00	0.09
6.20	0.05	0.00	0.05	8.80	0.09	0.00	0.09
6.25	0.05	0.00	0.05	8.85	0.10	0.00	0.10
6.30	0.05	0.00	0.05	8.90	0.10	0.00	0.10
6.35	0.05	0.00	0.05	8.95	0.10	0.00	0.10
6.40	0.05	0.00	0.05	9.00	0.10	0.00	0.10
6.45	0.05	0.00	0.05	9.05	0.10	0.00	0.10
6.50	0.06	0.00	0.06	9.10	0.10	0.00	0.10
6.55	0.06	0.00	0.06	9.15	0.11	0.00	0.11
6.60	0.06	0.00	0.06	9.20	0.11	0.00	0.11
6.65	0.06	0.00	0.06	9.25	0.11	0.00	0.11
6.70	0.06	0.00	0.06	9.30	0.12	0.00	0.12
6.75	0.06	0.00	0.06	9.35	0.12	0.00	0.12
6.80	0.06	0.00	0.06	9.40	0.12	0.00	0.12
6.85	0.06	0.00	0.06	9.45	0.12	0.00	0.12
6.90	0.06	0.00	0.06	9.50	0.13	0.00	0.13
6.95	0.06	0.00	0.06	9.55	0.13	0.00	0.13
7.00	0.06	0.00	0.06	9.60	0.13	0.00	0.13
7.05	0.06	0.00	0.06	9.65	0.14	0.00	0.14
7.10	0.06	0.00	0.06	9.70	0.14	0.00	0.14
7.15	0.07	0.00	0.07	9.75	0.14	0.00	0.14
7.20	0.07	0.00	0.07	9.80	0.15	0.00	0.15
7.25	0.07	0.00	0.07	9.85	0.15	0.00	0.15
7.30	0.07	0.00	0.07	9.90	0.15	0.00	0.15
7.35	0.07	0.00	0.07	9.95	0.16	0.00	0.16
7.40	0.07	0.00	0.07	10.00	0.16	0.00	0.16
7.45	0.07	0.00	0.07	10.05	0.16	0.00	0.16
7.50	0.07	0.00	0.07	10.10	0.16	0.00	0.16
7.55	0.07	0.00	0.07	10.15	0.17	0.00	0.17
7.60	0.07	0.00	0.07	10.20	0.17	0.00	0.17
7.65	0.07	0.00	0.07	10.25	0.18	0.00	0.18
7.70	0.07	0.00	0.07	10.30	0.18	0.00	0.18
7.75	0.08	0.00	0.08	10.35	0.18	0.00	0.18

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.18	0.00	0.18	13.00	0.46	0.00	0.46
10.45	0.19	0.00	0.19	13.05	0.43	0.00	0.43
10.50	0.19	0.00	0.19	13.10	0.40	0.00	0.40
10.55	0.20	0.00	0.20	13.15	0.38	0.00	0.38
10.60	0.21	0.00	0.21	13.20	0.37	0.00	0.37
10.65	0.22	0.00	0.22	13.25	0.35	0.00	0.35
10.70	0.23	0.00	0.23	13.30	0.33	0.00	0.33
10.75	0.25	0.00	0.25	13.35	0.32	0.00	0.32
10.80	0.26	0.00	0.26	13.40	0.30	0.00	0.30
10.85	0.27	0.00	0.27	13.45	0.29	0.00	0.29
10.90	0.28	0.00	0.28	13.50	0.28	0.00	0.28
10.95	0.29	0.00	0.29	13.55	0.26	0.00	0.26
11.00	0.30	0.00	0.30	13.60	0.25	0.00	0.25
11.05	0.33	0.00	0.33	13.65	0.24	0.00	0.24
11.10	0.34	0.00	0.34	13.70	0.24	0.00	0.24
11.15	0.37	0.00	0.37	13.75	0.23	0.00	0.23
11.20	0.39	0.00	0.39	13.80	0.23	0.00	0.23
11.25	0.41	0.00	0.41	13.85	0.22	0.00	0.22
11.30	0.43	0.00	0.43	13.90	0.22	0.00	0.22
11.35	0.46	0.00	0.46	13.95	0.21	0.00	0.21
11.40	0.47	0.00	0.47	14.00	0.21	0.00	0.21
11.45	0.50	0.00	0.50	14.05	0.20	0.00	0.20
11.50	0.51	0.00	0.51	14.10	0.20	0.00	0.20
11.55	0.66	0.00	0.66	14.15	0.20	0.00	0.20
11.60	0.75	0.00	0.75	14.20	0.19	0.00	0.19
11.65	0.81	0.00	0.81	14.25	0.19	0.00	0.19
11.70	0.84	0.00	0.84	14.30	0.19	0.00	0.19
11.75	1.01	0.00	1.01	14.35	0.18	0.00	0.18
11.80	1.11	0.00	1.11	14.40	0.18	0.00	0.18
11.85	1.38	0.00	1.38	14.45	0.18	0.00	0.18
11.90	1.54	0.00	1.54	14.50	0.17	0.00	0.17
11.95	2.19	0.00	2.19	14.55	0.17	0.00	0.17
12.00	2.60	0.00	2.60	14.60	0.17	0.00	0.17
12.05	3.69	0.00	3.69	14.65	0.16	0.00	0.16
12.10	**4.36**	0.00	**4.36**	14.70	0.16	0.00	0.16
12.15	**3.12**	0.00	**3.12**	14.75	0.16	0.00	0.16
12.20	2.28	0.00	2.28	14.80	0.15	0.00	0.15
12.25	1.76	0.00	1.76	14.85	0.15	0.00	0.15
12.30	1.53	0.00	1.53	14.90	0.15	0.00	0.15
12.35	1.28	0.00	1.28	14.95	0.14	0.00	0.14
12.40	1.15	0.00	1.15	15.00	0.14	0.00	0.14
12.45	1.07	0.00	1.07	15.05	0.13	0.00	0.13
12.50	1.03	0.00	1.03	15.10	0.13	0.00	0.13
12.55	0.86	0.00	0.86	15.15	0.13	0.00	0.13
12.60	0.76	0.00	0.76	15.20	0.13	0.00	0.13
12.65	0.69	0.00	0.69	15.25	0.13	0.00	0.13
12.70	0.66	0.00	0.66	15.30	0.13	0.00	0.13
12.75	0.61	0.00	0.61	15.35	0.13	0.00	0.13
12.80	0.59	0.00	0.59	15.40	0.12	0.00	0.12
12.85	0.55	0.00	0.55	15.45	0.12	0.00	0.12
12.90	0.52	0.00	0.52	15.50	0.12	0.00	0.12
12.95	0.49	0.00	0.49	15.55	0.12	0.00	0.12

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.12	0.00	0.12	18.20	0.07	0.00	0.07
15.65	0.12	0.00	0.12	18.25	0.07	0.00	0.07
15.70	0.12	0.00	0.12	18.30	0.07	0.00	0.07
15.75	0.12	0.00	0.12	18.35	0.07	0.00	0.07
15.80	0.12	0.00	0.12	18.40	0.07	0.00	0.07
15.85	0.12	0.00	0.12	18.45	0.07	0.00	0.07
15.90	0.11	0.00	0.11	18.50	0.07	0.00	0.07
15.95	0.11	0.00	0.11	18.55	0.07	0.00	0.07
16.00	0.11	0.00	0.11	18.60	0.07	0.00	0.07
16.05	0.11	0.00	0.11	18.65	0.07	0.00	0.07
16.10	0.11	0.00	0.11	18.70	0.07	0.00	0.07
16.15	0.11	0.00	0.11	18.75	0.07	0.00	0.07
16.20	0.11	0.00	0.11	18.80	0.07	0.00	0.07
16.25	0.11	0.00	0.11	18.85	0.07	0.00	0.07
16.30	0.11	0.00	0.11	18.90	0.07	0.00	0.07
16.35	0.11	0.00	0.11	18.95	0.07	0.00	0.07
16.40	0.11	0.00	0.11	19.00	0.07	0.00	0.07
16.45	0.10	0.00	0.10	19.05	0.07	0.00	0.07
16.50	0.10	0.00	0.10	19.10	0.07	0.00	0.07
16.55	0.10	0.00	0.10	19.15	0.07	0.00	0.07
16.60	0.10	0.00	0.10	19.20	0.07	0.00	0.07
16.65	0.10	0.00	0.10	19.25	0.07	0.00	0.07
16.70	0.10	0.00	0.10	19.30	0.07	0.00	0.07
16.75	0.10	0.00	0.10	19.35	0.07	0.00	0.07
16.80	0.10	0.00	0.10	19.40	0.07	0.00	0.07
16.85	0.10	0.00	0.10	19.45	0.07	0.00	0.07
16.90	0.10	0.00	0.10	19.50	0.07	0.00	0.07
16.95	0.10	0.00	0.10	19.55	0.07	0.00	0.07
17.00	0.09	0.00	0.09	19.60	0.07	0.00	0.07
17.05	0.09	0.00	0.09	19.65	0.07	0.00	0.07
17.10	0.09	0.00	0.09	19.70	0.07	0.00	0.07
17.15	0.09	0.00	0.09	19.75	0.07	0.00	0.07
17.20	0.09	0.00	0.09	19.80	0.07	0.00	0.07
17.25	0.09	0.00	0.09	19.85	0.07	0.00	0.07
17.30	0.09	0.00	0.09	19.90	0.07	0.00	0.07
17.35	0.09	0.00	0.09	19.95	0.07	0.00	0.07
17.40	0.09	0.00	0.09	20.00	0.07	0.00	0.07
17.45	0.09	0.00	0.09	20.05	0.07	0.00	0.07
17.50	0.09	0.00	0.09	20.10	0.06	0.00	0.06
17.55	0.08	0.00	0.08	20.15	0.06	0.00	0.06
17.60	0.08	0.00	0.08	20.20	0.06	0.00	0.06
17.65	0.08	0.00	0.08	20.25	0.06	0.00	0.06
17.70	0.08	0.00	0.08	20.30	0.06	0.00	0.06
17.75	0.08	0.00	0.08	20.35	0.06	0.00	0.06
17.80	0.08	0.00	0.08	20.40	0.06	0.00	0.06
17.85	0.08	0.00	0.08	20.45	0.06	0.00	0.06
17.90	0.08	0.00	0.08	20.50	0.06	0.00	0.06
17.95	0.08	0.00	0.08	20.55	0.06	0.00	0.06
18.00	0.08	0.00	0.08	20.60	0.06	0.00	0.06
18.05	0.08	0.00	0.08	20.65	0.06	0.00	0.06
18.10	0.07	0.00	0.07	20.70	0.06	0.00	0.06
18.15	0.07	0.00	0.07	20.75	0.06	0.00	0.06

Hydrograph for Link P1A: P1A (continued)

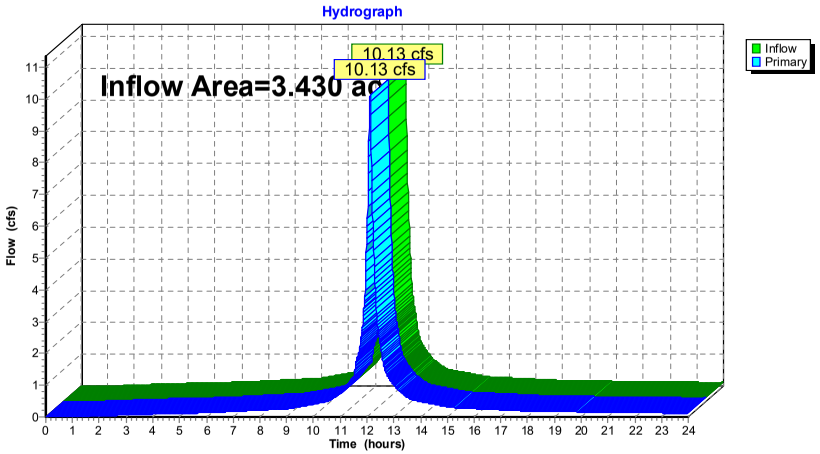
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.06	0.00	0.06	23.40	0.05	0.00	0.05
20.85	0.06	0.00	0.06	23.45	0.05	0.00	0.05
20.90	0.06	0.00	0.06	23.50	0.05	0.00	0.05
20.95	0.06	0.00	0.06	23.55	0.05	0.00	0.05
21.00	0.06	0.00	0.06	23.60	0.05	0.00	0.05
21.05	0.06	0.00	0.06	23.65	0.05	0.00	0.05
21.10	0.06	0.00	0.06	23.70	0.05	0.00	0.05
21.15	0.06	0.00	0.06	23.75	0.05	0.00	0.05
21.20	0.06	0.00	0.06	23.80	0.05	0.00	0.05
21.25	0.06	0.00	0.06	23.85	0.05	0.00	0.05
21.30	0.06	0.00	0.06	23.90	0.05	0.00	0.05
21.35	0.06	0.00	0.06	23.95	0.05	0.00	0.05
21.40	0.06	0.00	0.06	24.00	0.06	0.00	0.06
21.45	0.06	0.00	0.06				
21.50	0.06	0.00	0.06				
21.55	0.06	0.00	0.06				
21.60	0.06	0.00	0.06				
21.65	0.06	0.00	0.06				
21.70	0.06	0.00	0.06				
21.75	0.06	0.00	0.06				
21.80	0.06	0.00	0.06				
21.85	0.06	0.00	0.06				
21.90	0.06	0.00	0.06				
21.95	0.06	0.00	0.06				
22.00	0.06	0.00	0.06				
22.05	0.06	0.00	0.06				
22.10	0.06	0.00	0.06				
22.15	0.06	0.00	0.06				
22.20	0.06	0.00	0.06				
22.25	0.06	0.00	0.06				
22.30	0.05	0.00	0.05				
22.35	0.05	0.00	0.05				
22.40	0.05	0.00	0.05				
22.45	0.05	0.00	0.05				
22.50	0.05	0.00	0.05				
22.55	0.05	0.00	0.05				
22.60	0.05	0.00	0.05				
22.65	0.05	0.00	0.05				
22.70	0.05	0.00	0.05				
22.75	0.05	0.00	0.05				
22.80	0.05	0.00	0.05				
22.85	0.05	0.00	0.05				
22.90	0.05	0.00	0.05				
22.95	0.05	0.00	0.05				
23.00	0.05	0.00	0.05				
23.05	0.05	0.00	0.05				
23.10	0.05	0.00	0.05				
23.15	0.05	0.00	0.05				
23.20	0.05	0.00	0.05				
23.25	0.05	0.00	0.05				
23.30	0.05	0.00	0.05				
23.35	0.05	0.00	0.05				

Summary for Link P1B: P1B

Inflow Area = 3.430 ac, 82.22% Impervious, Inflow Depth > 2.82" for 2YR CURRENT event
Inflow = 10.13 cfs @ 12.12 hrs, Volume= 0.806 af
Primary = 10.13 cfs @ 12.12 hrs, Volume= 0.806 af, Atten= 0%, Lag= 0.0 min
Routed to Link PPOI-1 : PPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link P1B: P1B



Hydrograph for Link P1B: P1B

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.05	0.00	0.05
0.05	0.00	0.00	0.00	2.65	0.05	0.00	0.05
0.10	0.00	0.00	0.00	2.70	0.05	0.00	0.05
0.15	0.00	0.00	0.00	2.75	0.06	0.00	0.06
0.20	0.00	0.00	0.00	2.80	0.06	0.00	0.06
0.25	0.00	0.00	0.00	2.85	0.06	0.00	0.06
0.30	0.00	0.00	0.00	2.90	0.06	0.00	0.06
0.35	0.00	0.00	0.00	2.95	0.06	0.00	0.06
0.40	0.00	0.00	0.00	3.00	0.06	0.00	0.06
0.45	0.00	0.00	0.00	3.05	0.06	0.00	0.06
0.50	0.00	0.00	0.00	3.10	0.07	0.00	0.07
0.55	0.00	0.00	0.00	3.15	0.07	0.00	0.07
0.60	0.00	0.00	0.00	3.20	0.07	0.00	0.07
0.65	0.00	0.00	0.00	3.25	0.07	0.00	0.07
0.70	0.00	0.00	0.00	3.30	0.07	0.00	0.07
0.75	0.00	0.00	0.00	3.35	0.07	0.00	0.07
0.80	0.00	0.00	0.00	3.40	0.07	0.00	0.07
0.85	0.00	0.00	0.00	3.45	0.07	0.00	0.07
0.90	0.00	0.00	0.00	3.50	0.08	0.00	0.08
0.95	0.00	0.00	0.00	3.55	0.08	0.00	0.08
1.00	0.00	0.00	0.00	3.60	0.08	0.00	0.08
1.05	0.00	0.00	0.00	3.65	0.08	0.00	0.08
1.10	0.00	0.00	0.00	3.70	0.08	0.00	0.08
1.15	0.00	0.00	0.00	3.75	0.08	0.00	0.08
1.20	0.00	0.00	0.00	3.80	0.08	0.00	0.08
1.25	0.00	0.00	0.00	3.85	0.08	0.00	0.08
1.30	0.00	0.00	0.00	3.90	0.09	0.00	0.09
1.35	0.01	0.00	0.01	3.95	0.09	0.00	0.09
1.40	0.01	0.00	0.01	4.00	0.09	0.00	0.09
1.45	0.01	0.00	0.01	4.05	0.09	0.00	0.09
1.50	0.01	0.00	0.01	4.10	0.09	0.00	0.09
1.55	0.01	0.00	0.01	4.15	0.09	0.00	0.09
1.60	0.02	0.00	0.02	4.20	0.09	0.00	0.09
1.65	0.02	0.00	0.02	4.25	0.09	0.00	0.09
1.70	0.02	0.00	0.02	4.30	0.09	0.00	0.09
1.75	0.02	0.00	0.02	4.35	0.10	0.00	0.10
1.80	0.02	0.00	0.02	4.40	0.10	0.00	0.10
1.85	0.03	0.00	0.03	4.45	0.10	0.00	0.10
1.90	0.03	0.00	0.03	4.50	0.10	0.00	0.10
1.95	0.03	0.00	0.03	4.55	0.10	0.00	0.10
2.00	0.03	0.00	0.03	4.60	0.10	0.00	0.10
2.05	0.03	0.00	0.03	4.65	0.10	0.00	0.10
2.10	0.03	0.00	0.03	4.70	0.10	0.00	0.10
2.15	0.04	0.00	0.04	4.75	0.10	0.00	0.10
2.20	0.04	0.00	0.04	4.80	0.10	0.00	0.10
2.25	0.04	0.00	0.04	4.85	0.11	0.00	0.11
2.30	0.04	0.00	0.04	4.90	0.11	0.00	0.11
2.35	0.04	0.00	0.04	4.95	0.11	0.00	0.11
2.40	0.04	0.00	0.04	5.00	0.11	0.00	0.11
2.45	0.05	0.00	0.05	5.05	0.11	0.00	0.11
2.50	0.05	0.00	0.05	5.10	0.11	0.00	0.11
2.55	0.05	0.00	0.05	5.15	0.11	0.00	0.11

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.11	0.00	0.11	7.80	0.20	0.00	0.20
5.25	0.11	0.00	0.11	7.85	0.21	0.00	0.21
5.30	0.11	0.00	0.11	7.90	0.21	0.00	0.21
5.35	0.12	0.00	0.12	7.95	0.21	0.00	0.21
5.40	0.12	0.00	0.12	8.00	0.21	0.00	0.21
5.45	0.12	0.00	0.12	8.05	0.22	0.00	0.22
5.50	0.12	0.00	0.12	8.10	0.22	0.00	0.22
5.55	0.12	0.00	0.12	8.15	0.22	0.00	0.22
5.60	0.12	0.00	0.12	8.20	0.22	0.00	0.22
5.65	0.12	0.00	0.12	8.25	0.22	0.00	0.22
5.70	0.12	0.00	0.12	8.30	0.23	0.00	0.23
5.75	0.12	0.00	0.12	8.35	0.23	0.00	0.23
5.80	0.12	0.00	0.12	8.40	0.23	0.00	0.23
5.85	0.12	0.00	0.12	8.45	0.23	0.00	0.23
5.90	0.13	0.00	0.13	8.50	0.24	0.00	0.24
5.95	0.13	0.00	0.13	8.55	0.24	0.00	0.24
6.00	0.13	0.00	0.13	8.60	0.24	0.00	0.24
6.05	0.13	0.00	0.13	8.65	0.24	0.00	0.24
6.10	0.13	0.00	0.13	8.70	0.24	0.00	0.24
6.15	0.13	0.00	0.13	8.75	0.25	0.00	0.25
6.20	0.13	0.00	0.13	8.80	0.25	0.00	0.25
6.25	0.14	0.00	0.14	8.85	0.25	0.00	0.25
6.30	0.14	0.00	0.14	8.90	0.25	0.00	0.25
6.35	0.14	0.00	0.14	8.95	0.26	0.00	0.26
6.40	0.14	0.00	0.14	9.00	0.26	0.00	0.26
6.45	0.15	0.00	0.15	9.05	0.26	0.00	0.26
6.50	0.15	0.00	0.15	9.10	0.27	0.00	0.27
6.55	0.15	0.00	0.15	9.15	0.28	0.00	0.28
6.60	0.15	0.00	0.15	9.20	0.28	0.00	0.28
6.65	0.15	0.00	0.15	9.25	0.29	0.00	0.29
6.70	0.16	0.00	0.16	9.30	0.30	0.00	0.30
6.75	0.16	0.00	0.16	9.35	0.31	0.00	0.31
6.80	0.16	0.00	0.16	9.40	0.31	0.00	0.31
6.85	0.16	0.00	0.16	9.45	0.32	0.00	0.32
6.90	0.16	0.00	0.16	9.50	0.33	0.00	0.33
6.95	0.17	0.00	0.17	9.55	0.34	0.00	0.34
7.00	0.17	0.00	0.17	9.60	0.34	0.00	0.34
7.05	0.17	0.00	0.17	9.65	0.35	0.00	0.35
7.10	0.17	0.00	0.17	9.70	0.36	0.00	0.36
7.15	0.18	0.00	0.18	9.75	0.37	0.00	0.37
7.20	0.18	0.00	0.18	9.80	0.37	0.00	0.37
7.25	0.18	0.00	0.18	9.85	0.38	0.00	0.38
7.30	0.18	0.00	0.18	9.90	0.39	0.00	0.39
7.35	0.18	0.00	0.18	9.95	0.40	0.00	0.40
7.40	0.19	0.00	0.19	10.00	0.40	0.00	0.40
7.45	0.19	0.00	0.19	10.05	0.41	0.00	0.41
7.50	0.19	0.00	0.19	10.10	0.42	0.00	0.42
7.55	0.19	0.00	0.19	10.15	0.43	0.00	0.43
7.60	0.19	0.00	0.19	10.20	0.44	0.00	0.44
7.65	0.20	0.00	0.20	10.25	0.44	0.00	0.44
7.70	0.20	0.00	0.20	10.30	0.45	0.00	0.45
7.75	0.20	0.00	0.20	10.35	0.46	0.00	0.46

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.47	0.00	0.47	13.00	1.01	0.00	1.01
10.45	0.47	0.00	0.47	13.05	0.96	0.00	0.96
10.50	0.48	0.00	0.48	13.10	0.90	0.00	0.90
10.55	0.50	0.00	0.50	13.15	0.86	0.00	0.86
10.60	0.52	0.00	0.52	13.20	0.82	0.00	0.82
10.65	0.55	0.00	0.55	13.25	0.78	0.00	0.78
10.70	0.58	0.00	0.58	13.30	0.75	0.00	0.75
10.75	0.61	0.00	0.61	13.35	0.72	0.00	0.72
10.80	0.63	0.00	0.63	13.40	0.69	0.00	0.69
10.85	0.66	0.00	0.66	13.45	0.66	0.00	0.66
10.90	0.69	0.00	0.69	13.50	0.63	0.00	0.63
10.95	0.72	0.00	0.72	13.55	0.60	0.00	0.60
11.00	0.75	0.00	0.75	13.60	0.57	0.00	0.57
11.05	0.79	0.00	0.79	13.65	0.55	0.00	0.55
11.10	0.84	0.00	0.84	13.70	0.54	0.00	0.54
11.15	0.89	0.00	0.89	13.75	0.52	0.00	0.52
11.20	0.94	0.00	0.94	13.80	0.52	0.00	0.52
11.25	1.00	0.00	1.00	13.85	0.51	0.00	0.51
11.30	1.05	0.00	1.05	13.90	0.50	0.00	0.50
11.35	1.11	0.00	1.11	13.95	0.49	0.00	0.49
11.40	1.16	0.00	1.16	14.00	0.48	0.00	0.48
11.45	1.21	0.00	1.21	14.05	0.47	0.00	0.47
11.50	1.25	0.00	1.25	14.10	0.47	0.00	0.47
11.55	1.46	0.00	1.46	14.15	0.46	0.00	0.46
11.60	1.73	0.00	1.73	14.20	0.45	0.00	0.45
11.65	1.90	0.00	1.90	14.25	0.44	0.00	0.44
11.70	2.02	0.00	2.02	14.30	0.44	0.00	0.44
11.75	2.28	0.00	2.28	14.35	0.43	0.00	0.43
11.80	2.60	0.00	2.60	14.40	0.42	0.00	0.42
11.85	3.05	0.00	3.05	14.45	0.41	0.00	0.41
11.90	3.56	0.00	3.56	14.50	0.40	0.00	0.40
11.95	4.57	0.00	4.57	14.55	0.40	0.00	0.40
12.00	5.81	0.00	5.81	14.60	0.39	0.00	0.39
12.05	7.66	0.00	7.66	14.65	0.38	0.00	0.38
12.10	**9.79**	0.00	**9.79**	14.70	0.37	0.00	0.37
12.15	**8.97**	0.00	**8.97**	14.75	0.36	0.00	0.36
12.20	6.70	0.00	6.70	14.80	0.36	0.00	0.36
12.25	5.23	0.00	5.23	14.85	0.35	0.00	0.35
12.30	4.17	0.00	4.17	14.90	0.34	0.00	0.34
12.35	3.40	0.00	3.40	14.95	0.33	0.00	0.33
12.40	2.80	0.00	2.80	15.00	0.32	0.00	0.32
12.45	2.48	0.00	2.48	15.05	0.32	0.00	0.32
12.50	2.29	0.00	2.29	15.10	0.31	0.00	0.31
12.55	2.01	0.00	2.01	15.15	0.30	0.00	0.30
12.60	1.70	0.00	1.70	15.20	0.30	0.00	0.30
12.65	1.52	0.00	1.52	15.25	0.30	0.00	0.30
12.70	1.41	0.00	1.41	15.30	0.29	0.00	0.29
12.75	1.32	0.00	1.32	15.35	0.29	0.00	0.29
12.80	1.25	0.00	1.25	15.40	0.29	0.00	0.29
12.85	1.18	0.00	1.18	15.45	0.29	0.00	0.29
12.90	1.13	0.00	1.13	15.50	0.29	0.00	0.29
12.95	1.07	0.00	1.07	15.55	0.28	0.00	0.28

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.28	0.00	0.28	18.20	0.17	0.00	0.17
15.65	0.28	0.00	0.28	18.25	0.17	0.00	0.17
15.70	0.28	0.00	0.28	18.30	0.17	0.00	0.17
15.75	0.27	0.00	0.27	18.35	0.17	0.00	0.17
15.80	0.27	0.00	0.27	18.40	0.17	0.00	0.17
15.85	0.27	0.00	0.27	18.45	0.17	0.00	0.17
15.90	0.27	0.00	0.27	18.50	0.17	0.00	0.17
15.95	0.27	0.00	0.27	18.55	0.17	0.00	0.17
16.00	0.26	0.00	0.26	18.60	0.17	0.00	0.17
16.05	0.26	0.00	0.26	18.65	0.17	0.00	0.17
16.10	0.26	0.00	0.26	18.70	0.17	0.00	0.17
16.15	0.26	0.00	0.26	18.75	0.17	0.00	0.17
16.20	0.26	0.00	0.26	18.80	0.17	0.00	0.17
16.25	0.25	0.00	0.25	18.85	0.17	0.00	0.17
16.30	0.25	0.00	0.25	18.90	0.17	0.00	0.17
16.35	0.25	0.00	0.25	18.95	0.16	0.00	0.16
16.40	0.25	0.00	0.25	19.00	0.16	0.00	0.16
16.45	0.25	0.00	0.25	19.05	0.16	0.00	0.16
16.50	0.24	0.00	0.24	19.10	0.16	0.00	0.16
16.55	0.24	0.00	0.24	19.15	0.16	0.00	0.16
16.60	0.24	0.00	0.24	19.20	0.16	0.00	0.16
16.65	0.24	0.00	0.24	19.25	0.16	0.00	0.16
16.70	0.24	0.00	0.24	19.30	0.16	0.00	0.16
16.75	0.23	0.00	0.23	19.35	0.16	0.00	0.16
16.80	0.23	0.00	0.23	19.40	0.16	0.00	0.16
16.85	0.23	0.00	0.23	19.45	0.16	0.00	0.16
16.90	0.23	0.00	0.23	19.50	0.16	0.00	0.16
16.95	0.22	0.00	0.22	19.55	0.16	0.00	0.16
17.00	0.22	0.00	0.22	19.60	0.16	0.00	0.16
17.05	0.22	0.00	0.22	19.65	0.16	0.00	0.16
17.10	0.22	0.00	0.22	19.70	0.16	0.00	0.16
17.15	0.22	0.00	0.22	19.75	0.16	0.00	0.16
17.20	0.21	0.00	0.21	19.80	0.16	0.00	0.16
17.25	0.21	0.00	0.21	19.85	0.16	0.00	0.16
17.30	0.21	0.00	0.21	19.90	0.16	0.00	0.16
17.35	0.21	0.00	0.21	19.95	0.15	0.00	0.15
17.40	0.21	0.00	0.21	20.00	0.15	0.00	0.15
17.45	0.20	0.00	0.20	20.05	0.15	0.00	0.15
17.50	0.20	0.00	0.20	20.10	0.15	0.00	0.15
17.55	0.20	0.00	0.20	20.15	0.15	0.00	0.15
17.60	0.20	0.00	0.20	20.20	0.15	0.00	0.15
17.65	0.19	0.00	0.19	20.25	0.15	0.00	0.15
17.70	0.19	0.00	0.19	20.30	0.15	0.00	0.15
17.75	0.19	0.00	0.19	20.35	0.15	0.00	0.15
17.80	0.19	0.00	0.19	20.40	0.15	0.00	0.15
17.85	0.19	0.00	0.19	20.45	0.15	0.00	0.15
17.90	0.18	0.00	0.18	20.50	0.15	0.00	0.15
17.95	0.18	0.00	0.18	20.55	0.15	0.00	0.15
18.00	0.18	0.00	0.18	20.60	0.15	0.00	0.15
18.05	0.18	0.00	0.18	20.65	0.15	0.00	0.15
18.10	0.18	0.00	0.18	20.70	0.15	0.00	0.15
18.15	0.17	0.00	0.17	20.75	0.15	0.00	0.15

Hydrograph for Link P1B: P1B (continued)

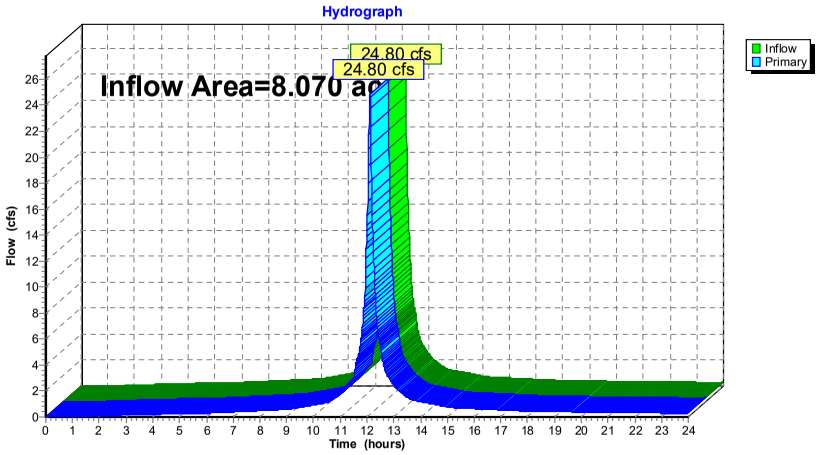
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.15	0.00	0.15	23.40	0.12	0.00	0.12
20.85	0.14	0.00	0.14	23.45	0.12	0.00	0.12
20.90	0.14	0.00	0.14	23.50	0.12	0.00	0.12
20.95	0.14	0.00	0.14	23.55	0.12	0.00	0.12
21.00	0.14	0.00	0.14	23.60	0.12	0.00	0.12
21.05	0.14	0.00	0.14	23.65	0.12	0.00	0.12
21.10	0.14	0.00	0.14	23.70	0.11	0.00	0.11
21.15	0.14	0.00	0.14	23.75	0.11	0.00	0.11
21.20	0.14	0.00	0.14	23.80	0.11	0.00	0.11
21.25	0.14	0.00	0.14	23.85	0.11	0.00	0.11
21.30	0.14	0.00	0.14	23.90	0.11	0.00	0.11
21.35	0.14	0.00	0.14	23.95	0.12	0.00	0.12
21.40	0.14	0.00	0.14	24.00	0.13	0.00	0.13
21.45	0.14	0.00	0.14				
21.50	0.14	0.00	0.14				
21.55	0.14	0.00	0.14				
21.60	0.14	0.00	0.14				
21.65	0.14	0.00	0.14				
21.70	0.14	0.00	0.14				
21.75	0.14	0.00	0.14				
21.80	0.14	0.00	0.14				
21.85	0.13	0.00	0.13				
21.90	0.13	0.00	0.13				
21.95	0.13	0.00	0.13				
22.00	0.13	0.00	0.13				
22.05	0.13	0.00	0.13				
22.10	0.13	0.00	0.13				
22.15	0.13	0.00	0.13				
22.20	0.13	0.00	0.13				
22.25	0.13	0.00	0.13				
22.30	0.13	0.00	0.13				
22.35	0.13	0.00	0.13				
22.40	0.13	0.00	0.13				
22.45	0.13	0.00	0.13				
22.50	0.13	0.00	0.13				
22.55	0.13	0.00	0.13				
22.60	0.13	0.00	0.13				
22.65	0.13	0.00	0.13				
22.70	0.13	0.00	0.13				
22.75	0.12	0.00	0.12				
22.80	0.12	0.00	0.12				
22.85	0.12	0.00	0.12				
22.90	0.12	0.00	0.12				
22.95	0.12	0.00	0.12				
23.00	0.12	0.00	0.12				
23.05	0.12	0.00	0.12				
23.10	0.12	0.00	0.12				
23.15	0.12	0.00	0.12				
23.20	0.12	0.00	0.12				
23.25	0.12	0.00	0.12				
23.30	0.12	0.00	0.12				
23.35	0.12	0.00	0.12				

Summary for Link PPOI-1: PPOI-1

Inflow Area = 8.070 ac, 81.04% Impervious, Inflow Depth > 2.87" for 2YR CURRENT event
Inflow = 24.80 cfs @ 12.11 hrs, Volume= 1.932 af
Primary = 24.80 cfs @ 12.11 hrs, Volume= 1.932 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link PPOI-1: PPOI-1



Hydrograph for Link PPOI-1: PPOI-1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.11	0.00	0.11
0.05	0.00	0.00	0.00	2.65	0.12	0.00	0.12
0.10	0.00	0.00	0.00	2.70	0.12	0.00	0.12
0.15	0.00	0.00	0.00	2.75	0.12	0.00	0.12
0.20	0.00	0.00	0.00	2.80	0.13	0.00	0.13
0.25	0.00	0.00	0.00	2.85	0.13	0.00	0.13
0.30	0.00	0.00	0.00	2.90	0.13	0.00	0.13
0.35	0.00	0.00	0.00	2.95	0.14	0.00	0.14
0.40	0.00	0.00	0.00	3.00	0.14	0.00	0.14
0.45	0.00	0.00	0.00	3.05	0.14	0.00	0.14
0.50	0.00	0.00	0.00	3.10	0.15	0.00	0.15
0.55	0.00	0.00	0.00	3.15	0.15	0.00	0.15
0.60	0.00	0.00	0.00	3.20	0.15	0.00	0.15
0.65	0.00	0.00	0.00	3.25	0.16	0.00	0.16
0.70	0.00	0.00	0.00	3.30	0.16	0.00	0.16
0.75	0.00	0.00	0.00	3.35	0.16	0.00	0.16
0.80	0.00	0.00	0.00	3.40	0.16	0.00	0.16
0.85	0.00	0.00	0.00	3.45	0.17	0.00	0.17
0.90	0.00	0.00	0.00	3.50	0.17	0.00	0.17
0.95	0.00	0.00	0.00	3.55	0.17	0.00	0.17
1.00	0.00	0.00	0.00	3.60	0.18	0.00	0.18
1.05	0.00	0.00	0.00	3.65	0.18	0.00	0.18
1.10	0.00	0.00	0.00	3.70	0.18	0.00	0.18
1.15	0.00	0.00	0.00	3.75	0.18	0.00	0.18
1.20	0.00	0.00	0.00	3.80	0.19	0.00	0.19
1.25	0.01	0.00	0.01	3.85	0.19	0.00	0.19
1.30	0.01	0.00	0.01	3.90	0.19	0.00	0.19
1.35	0.02	0.00	0.02	3.95	0.19	0.00	0.19
1.40	0.02	0.00	0.02	4.00	0.20	0.00	0.20
1.45	0.03	0.00	0.03	4.05	0.20	0.00	0.20
1.50	0.03	0.00	0.03	4.10	0.20	0.00	0.20
1.55	0.03	0.00	0.03	4.15	0.20	0.00	0.20
1.60	0.04	0.00	0.04	4.20	0.21	0.00	0.21
1.65	0.04	0.00	0.04	4.25	0.21	0.00	0.21
1.70	0.05	0.00	0.05	4.30	0.21	0.00	0.21
1.75	0.05	0.00	0.05	4.35	0.22	0.00	0.22
1.80	0.06	0.00	0.06	4.40	0.22	0.00	0.22
1.85	0.06	0.00	0.06	4.45	0.22	0.00	0.22
1.90	0.06	0.00	0.06	4.50	0.22	0.00	0.22
1.95	0.07	0.00	0.07	4.55	0.22	0.00	0.22
2.00	0.07	0.00	0.07	4.60	0.23	0.00	0.23
2.05	0.08	0.00	0.08	4.65	0.23	0.00	0.23
2.10	0.08	0.00	0.08	4.70	0.23	0.00	0.23
2.15	0.08	0.00	0.08	4.75	0.23	0.00	0.23
2.20	0.09	0.00	0.09	4.80	0.24	0.00	0.24
2.25	0.09	0.00	0.09	4.85	0.24	0.00	0.24
2.30	0.09	0.00	0.09	4.90	0.24	0.00	0.24
2.35	0.10	0.00	0.10	4.95	0.24	0.00	0.24
2.40	0.10	0.00	0.10	5.00	0.24	0.00	0.24
2.45	0.10	0.00	0.10	5.05	0.25	0.00	0.25
2.50	0.11	0.00	0.11	5.10	0.25	0.00	0.25
2.55	0.11	0.00	0.11	5.15	0.25	0.00	0.25

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.25	0.00	0.25	7.80	0.46	0.00	0.46
5.25	0.26	0.00	0.26	7.85	0.46	0.00	0.46
5.30	0.26	0.00	0.26	7.90	0.47	0.00	0.47
5.35	0.26	0.00	0.26	7.95	0.48	0.00	0.48
5.40	0.26	0.00	0.26	8.00	0.48	0.00	0.48
5.45	0.26	0.00	0.26	8.05	0.49	0.00	0.49
5.50	0.27	0.00	0.27	8.10	0.49	0.00	0.49
5.55	0.27	0.00	0.27	8.15	0.50	0.00	0.50
5.60	0.27	0.00	0.27	8.20	0.50	0.00	0.50
5.65	0.27	0.00	0.27	8.25	0.51	0.00	0.51
5.70	0.27	0.00	0.27	8.30	0.51	0.00	0.51
5.75	0.28	0.00	0.28	8.35	0.52	0.00	0.52
5.80	0.28	0.00	0.28	8.40	0.52	0.00	0.52
5.85	0.28	0.00	0.28	8.45	0.53	0.00	0.53
5.90	0.28	0.00	0.28	8.50	0.53	0.00	0.53
5.95	0.28	0.00	0.28	8.55	0.54	0.00	0.54
6.00	0.29	0.00	0.29	8.60	0.54	0.00	0.54
6.05	0.29	0.00	0.29	8.65	0.55	0.00	0.55
6.10	0.29	0.00	0.29	8.70	0.56	0.00	0.56
6.15	0.30	0.00	0.30	8.75	0.56	0.00	0.56
6.20	0.30	0.00	0.30	8.80	0.57	0.00	0.57
6.25	0.31	0.00	0.31	8.85	0.57	0.00	0.57
6.30	0.31	0.00	0.31	8.90	0.58	0.00	0.58
6.35	0.32	0.00	0.32	8.95	0.58	0.00	0.58
6.40	0.32	0.00	0.32	9.00	0.59	0.00	0.59
6.45	0.33	0.00	0.33	9.05	0.60	0.00	0.60
6.50	0.33	0.00	0.33	9.10	0.61	0.00	0.61
6.55	0.34	0.00	0.34	9.15	0.63	0.00	0.63
6.60	0.34	0.00	0.34	9.20	0.65	0.00	0.65
6.65	0.35	0.00	0.35	9.25	0.67	0.00	0.67
6.70	0.35	0.00	0.35	9.30	0.68	0.00	0.68
6.75	0.36	0.00	0.36	9.35	0.70	0.00	0.70
6.80	0.36	0.00	0.36	9.40	0.72	0.00	0.72
6.85	0.36	0.00	0.36	9.45	0.74	0.00	0.74
6.90	0.37	0.00	0.37	9.50	0.75	0.00	0.75
6.95	0.37	0.00	0.37	9.55	0.77	0.00	0.77
7.00	0.38	0.00	0.38	9.60	0.79	0.00	0.79
7.05	0.39	0.00	0.39	9.65	0.81	0.00	0.81
7.10	0.39	0.00	0.39	9.70	0.82	0.00	0.82
7.15	0.39	0.00	0.39	9.75	0.84	0.00	0.84
7.20	0.40	0.00	0.40	9.80	0.86	0.00	0.86
7.25	0.40	0.00	0.40	9.85	0.88	0.00	0.88
7.30	0.41	0.00	0.41	9.90	0.90	0.00	0.90
7.35	0.41	0.00	0.41	9.95	0.92	0.00	0.92
7.40	0.42	0.00	0.42	10.00	0.93	0.00	0.93
7.45	0.42	0.00	0.42	10.05	0.95	0.00	0.95
7.50	0.43	0.00	0.43	10.10	0.97	0.00	0.97
7.55	0.43	0.00	0.43	10.15	0.99	0.00	0.99
7.60	0.44	0.00	0.44	10.20	1.01	0.00	1.01
7.65	0.44	0.00	0.44	10.25	1.03	0.00	1.03
7.70	0.45	0.00	0.45	10.30	1.05	0.00	1.05
7.75	0.45	0.00	0.45	10.35	1.07	0.00	1.07

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	1.08	0.00	1.08	13.00	2.49	0.00	2.49
10.45	1.11	0.00	1.11	13.05	2.33	0.00	2.33
10.50	1.12	0.00	1.12	13.10	2.20	0.00	2.20
10.55	1.17	0.00	1.17	13.15	2.09	0.00	2.09
10.60	1.23	0.00	1.23	13.20	2.00	0.00	2.00
10.65	1.29	0.00	1.29	13.25	1.92	0.00	1.92
10.70	1.35	0.00	1.35	13.30	1.84	0.00	1.84
10.75	1.42	0.00	1.42	13.35	1.76	0.00	1.76
10.80	1.49	0.00	1.49	13.40	1.69	0.00	1.69
10.85	1.56	0.00	1.56	13.45	1.61	0.00	1.61
10.90	1.63	0.00	1.63	13.50	1.54	0.00	1.54
10.95	1.70	0.00	1.70	13.55	1.46	0.00	1.46
11.00	1.76	0.00	1.76	13.60	1.39	0.00	1.39
11.05	1.88	0.00	1.88	13.65	1.34	0.00	1.34
11.10	1.98	0.00	1.98	13.70	1.31	0.00	1.31
11.15	2.11	0.00	2.11	13.75	1.28	0.00	1.28
11.20	2.23	0.00	2.23	13.80	1.26	0.00	1.26
11.25	2.37	0.00	2.37	13.85	1.24	0.00	1.24
11.30	2.49	0.00	2.49	13.90	1.22	0.00	1.22
11.35	2.63	0.00	2.63	13.95	1.20	0.00	1.20
11.40	2.75	0.00	2.75	14.00	1.18	0.00	1.18
11.45	2.88	0.00	2.88	14.05	1.16	0.00	1.16
11.50	2.98	0.00	2.98	14.10	1.14	0.00	1.14
11.55	3.56	0.00	3.56	14.15	1.12	0.00	1.12
11.60	4.19	0.00	4.19	14.20	1.10	0.00	1.10
11.65	4.58	0.00	4.58	14.25	1.08	0.00	1.08
11.70	4.84	0.00	4.84	14.30	1.06	0.00	1.06
11.75	5.56	0.00	5.56	14.35	1.04	0.00	1.04
11.80	6.30	0.00	6.30	14.40	1.02	0.00	1.02
11.85	7.52	0.00	7.52	14.45	1.00	0.00	1.00
11.90	8.69	0.00	8.69	14.50	0.98	0.00	0.98
11.95	11.49	0.00	11.49	14.55	0.96	0.00	0.96
12.00	14.35	0.00	14.35	14.60	0.94	0.00	0.94
12.05	19.37	0.00	19.37	14.65	0.92	0.00	0.92
12.10	**24.26**	0.00	**24.26**	14.70	0.90	0.00	0.90
12.15	**20.90**	0.00	**20.90**	14.75	0.88	0.00	0.88
12.20	15.51	0.00	15.51	14.80	0.87	0.00	0.87
12.25	12.04	0.00	12.04	14.85	0.85	0.00	0.85
12.30	9.75	0.00	9.75	14.90	0.83	0.00	0.83
12.35	7.99	0.00	7.99	14.95	0.81	0.00	0.81
12.40	6.72	0.00	6.72	15.00	0.79	0.00	0.79
12.45	6.02	0.00	6.02	15.05	0.77	0.00	0.77
12.50	5.62	0.00	5.62	15.10	0.75	0.00	0.75
12.55	4.87	0.00	4.87	15.15	0.74	0.00	0.74
12.60	4.14	0.00	4.14	15.20	0.73	0.00	0.73
12.65	3.71	0.00	3.71	15.25	0.72	0.00	0.72
12.70	3.46	0.00	3.46	15.30	0.72	0.00	0.72
12.75	3.25	0.00	3.25	15.35	0.71	0.00	0.71
12.80	3.08	0.00	3.08	15.40	0.71	0.00	0.71
12.85	2.92	0.00	2.92	15.45	0.70	0.00	0.70
12.90	2.78	0.00	2.78	15.50	0.69	0.00	0.69
12.95	2.62	0.00	2.62	15.55	0.69	0.00	0.69

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.68	0.00	0.68	18.20	0.42	0.00	0.42
15.65	0.68	0.00	0.68	18.25	0.42	0.00	0.42
15.70	0.67	0.00	0.67	18.30	0.42	0.00	0.42
15.75	0.67	0.00	0.67	18.35	0.42	0.00	0.42
15.80	0.66	0.00	0.66	18.40	0.41	0.00	0.41
15.85	0.66	0.00	0.66	18.45	0.41	0.00	0.41
15.90	0.65	0.00	0.65	18.50	0.41	0.00	0.41
15.95	0.65	0.00	0.65	18.55	0.41	0.00	0.41
16.00	0.64	0.00	0.64	18.60	0.41	0.00	0.41
16.05	0.64	0.00	0.64	18.65	0.41	0.00	0.41
16.10	0.63	0.00	0.63	18.70	0.41	0.00	0.41
16.15	0.63	0.00	0.63	18.75	0.41	0.00	0.41
16.20	0.62	0.00	0.62	18.80	0.40	0.00	0.40
16.25	0.62	0.00	0.62	18.85	0.40	0.00	0.40
16.30	0.61	0.00	0.61	18.90	0.40	0.00	0.40
16.35	0.61	0.00	0.61	18.95	0.40	0.00	0.40
16.40	0.60	0.00	0.60	19.00	0.40	0.00	0.40
16.45	0.60	0.00	0.60	19.05	0.40	0.00	0.40
16.50	0.59	0.00	0.59	19.10	0.40	0.00	0.40
16.55	0.59	0.00	0.59	19.15	0.40	0.00	0.40
16.60	0.58	0.00	0.58	19.20	0.39	0.00	0.39
16.65	0.58	0.00	0.58	19.25	0.39	0.00	0.39
16.70	0.57	0.00	0.57	19.30	0.39	0.00	0.39
16.75	0.57	0.00	0.57	19.35	0.39	0.00	0.39
16.80	0.56	0.00	0.56	19.40	0.39	0.00	0.39
16.85	0.55	0.00	0.55	19.45	0.39	0.00	0.39
16.90	0.55	0.00	0.55	19.50	0.39	0.00	0.39
16.95	0.54	0.00	0.54	19.55	0.38	0.00	0.38
17.00	0.54	0.00	0.54	19.60	0.38	0.00	0.38
17.05	0.53	0.00	0.53	19.65	0.38	0.00	0.38
17.10	0.53	0.00	0.53	19.70	0.38	0.00	0.38
17.15	0.52	0.00	0.52	19.75	0.38	0.00	0.38
17.20	0.52	0.00	0.52	19.80	0.38	0.00	0.38
17.25	0.51	0.00	0.51	19.85	0.38	0.00	0.38
17.30	0.51	0.00	0.51	19.90	0.38	0.00	0.38
17.35	0.50	0.00	0.50	19.95	0.37	0.00	0.37
17.40	0.50	0.00	0.50	20.00	0.37	0.00	0.37
17.45	0.49	0.00	0.49	20.05	0.37	0.00	0.37
17.50	0.49	0.00	0.49	20.10	0.37	0.00	0.37
17.55	0.48	0.00	0.48	20.15	0.37	0.00	0.37
17.60	0.48	0.00	0.48	20.20	0.37	0.00	0.37
17.65	0.47	0.00	0.47	20.25	0.37	0.00	0.37
17.70	0.47	0.00	0.47	20.30	0.37	0.00	0.37
17.75	0.46	0.00	0.46	20.35	0.36	0.00	0.36
17.80	0.46	0.00	0.46	20.40	0.36	0.00	0.36
17.85	0.45	0.00	0.45	20.45	0.36	0.00	0.36
17.90	0.45	0.00	0.45	20.50	0.36	0.00	0.36
17.95	0.44	0.00	0.44	20.55	0.36	0.00	0.36
18.00	0.44	0.00	0.44	20.60	0.36	0.00	0.36
18.05	0.43	0.00	0.43	20.65	0.36	0.00	0.36
18.10	0.43	0.00	0.43	20.70	0.36	0.00	0.36
18.15	0.42	0.00	0.42	20.75	0.35	0.00	0.35

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.35	0.00	0.35	23.40	0.29	0.00	0.29
20.85	0.35	0.00	0.35	23.45	0.28	0.00	0.28
20.90	0.35	0.00	0.35	23.50	0.28	0.00	0.28
20.95	0.35	0.00	0.35	23.55	0.28	0.00	0.28
21.00	0.35	0.00	0.35	23.60	0.28	0.00	0.28
21.05	0.35	0.00	0.35	23.65	0.28	0.00	0.28
21.10	0.34	0.00	0.34	23.70	0.28	0.00	0.28
21.15	0.34	0.00	0.34	23.75	0.28	0.00	0.28
21.20	0.34	0.00	0.34	23.80	0.28	0.00	0.28
21.25	0.34	0.00	0.34	23.85	0.27	0.00	0.27
21.30	0.34	0.00	0.34	23.90	0.27	0.00	0.27
21.35	0.34	0.00	0.34	23.95	0.29	0.00	0.29
21.40	0.34	0.00	0.34	24.00	0.31	0.00	0.31
21.45	0.34	0.00	0.34				
21.50	0.33	0.00	0.33				
21.55	0.33	0.00	0.33				
21.60	0.33	0.00	0.33				
21.65	0.33	0.00	0.33				
21.70	0.33	0.00	0.33				
21.75	0.33	0.00	0.33				
21.80	0.33	0.00	0.33				
21.85	0.33	0.00	0.33				
21.90	0.32	0.00	0.32				
21.95	0.32	0.00	0.32				
22.00	0.32	0.00	0.32				
22.05	0.32	0.00	0.32				
22.10	0.32	0.00	0.32				
22.15	0.32	0.00	0.32				
22.20	0.32	0.00	0.32				
22.25	0.32	0.00	0.32				
22.30	0.31	0.00	0.31				
22.35	0.31	0.00	0.31				
22.40	0.31	0.00	0.31				
22.45	0.31	0.00	0.31				
22.50	0.31	0.00	0.31				
22.55	0.31	0.00	0.31				
22.60	0.31	0.00	0.31				
22.65	0.31	0.00	0.31				
22.70	0.30	0.00	0.30				
22.75	0.30	0.00	0.30				
22.80	0.30	0.00	0.30				
22.85	0.30	0.00	0.30				
22.90	0.30	0.00	0.30				
22.95	0.30	0.00	0.30				
23.00	0.30	0.00	0.30				
23.05	0.30	0.00	0.30				
23.10	0.29	0.00	0.29				
23.15	0.29	0.00	0.29				
23.20	0.29	0.00	0.29				
23.25	0.29	0.00	0.29				
23.30	0.29	0.00	0.29				
23.35	0.29	0.00	0.29				

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment PDA 4 Perv: PDA4 PERV Runoff Area=0.110 ac 0.00% Impervious Runoff Depth>3.48"
Flow Length=117' Tc=1.2 min CN=84 Runoff=0.55 cfs 0.032 af

Subcatchment PDA1AIMP: PDA1A IMP Runoff Area=1.110 ac 100.00% Impervious Runoff Depth>4.99"
Flow Length=332' Tc=2.3 min CN=98 Runoff=6.44 cfs 0.462 af

Subcatchment PDA1APERV: PDA-1APERV Runoff Area=0.270 ac 0.00% Impervious Runoff Depth>3.46"
Flow Length=518' Tc=14.3 min CN=84 Runoff=0.66 cfs 0.078 af

Subcatchment PDA1B IMP: PDA1B IMP Runoff Area=2.680 ac 93.66% Impervious Runoff Depth>4.99"
Flow Length=618' Tc=4.1 min CN=98 Runoff=13.78 cfs 1.114 af

Subcatchment PDA1B PERV: PDA-1B PERV Runoff Area=0.440 ac 0.00% Impervious Runoff Depth>1.29"
Flow Length=761' Tc=5.5 min CN=58 Runoff=0.56 cfs 0.047 af

Subcatchment PDA2 IMP: PDA2 IMP Runoff Area=0.310 ac 100.00% Impervious Runoff Depth>4.99"
Flow Length=351' Tc=2.3 min CN=98 Runoff=1.80 cfs 0.129 af

Subcatchment PDA3 IMP: PDA3 IMP Runoff Area=1.110 ac 100.00% Impervious Runoff Depth>4.99"
Flow Length=804' Tc=4.8 min CN=98 Runoff=5.44 cfs 0.461 af

Subcatchment PDA3 PERV: PDA3 PERV Runoff Area=0.540 ac 0.00% Impervious Runoff Depth>3.48"
Flow Length=131' Tc=3.6 min CN=84 Runoff=2.30 cfs 0.156 af

Subcatchment PDA4 IMP: PDA4 IMP Runoff Area=1.500 ac 100.00% Impervious Runoff Depth>4.99"
Flow Length=388' Tc=3.0 min CN=98 Runoff=8.31 cfs 0.624 af

Link P1A: P1A Inflow=6.88 cfs 0.539 af
Primary=6.88 cfs 0.539 af

Link P1B: P1B Inflow=16.02 cfs 1.290 af
Primary=16.02 cfs 1.290 af

Link PPOI-1: PPOI-1 Inflow=39.18 cfs 3.102 af
Primary=39.18 cfs 3.102 af

Total Runoff Area = 8.070 ac Runoff Volume = 3.102 af Average Runoff Depth = 4.61"
18.96% Pervious = 1.530 ac 81.04% Impervious = 6.540 ac

Summary for Subcatchment PDA 4 Perv: PDA4 PERV

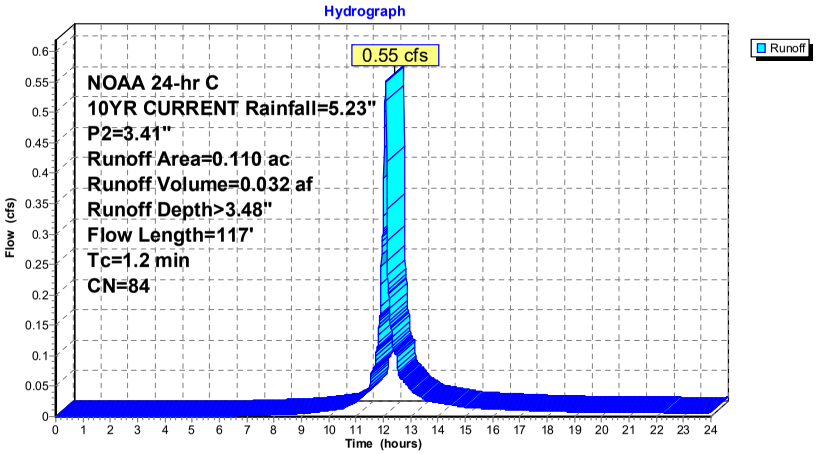
Runoff = 0.55 cfs @ 12.10 hrs, Volume= 0.032 af, Depth> 3.48"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR CURRENT Rainfall=5.23", P2=3.41"

Area (ac)	CN	Description
* 0.110	84	>75% Grass cover, Good, HSG D
0.110		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	5	0.3300	0.30		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
0.6	64	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.3	48	0.0040	2.89	3.54	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
1.2	117	Total			

Subcatchment PDA 4 Perv: PDA4 PERV



Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.16	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.16	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.16	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.17	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.17	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.17	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.18	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.18	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.18	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.19	0.00	0.00
0.50	0.03	0.00	0.00	3.10	0.19	0.00	0.00
0.55	0.03	0.00	0.00	3.15	0.19	0.00	0.00
0.60	0.03	0.00	0.00	3.20	0.20	0.00	0.00
0.65	0.04	0.00	0.00	3.25	0.20	0.00	0.00
0.70	0.04	0.00	0.00	3.30	0.21	0.00	0.00
0.75	0.04	0.00	0.00	3.35	0.21	0.00	0.00
0.80	0.05	0.00	0.00	3.40	0.21	0.00	0.00
0.85	0.05	0.00	0.00	3.45	0.22	0.00	0.00
0.90	0.05	0.00	0.00	3.50	0.22	0.00	0.00
0.95	0.05	0.00	0.00	3.55	0.22	0.00	0.00
1.00	0.06	0.00	0.00	3.60	0.23	0.00	0.00
1.05	0.06	0.00	0.00	3.65	0.23	0.00	0.00
1.10	0.06	0.00	0.00	3.70	0.23	0.00	0.00
1.15	0.07	0.00	0.00	3.75	0.24	0.00	0.00
1.20	0.07	0.00	0.00	3.80	0.24	0.00	0.00
1.25	0.07	0.00	0.00	3.85	0.24	0.00	0.00
1.30	0.07	0.00	0.00	3.90	0.25	0.00	0.00
1.35	0.08	0.00	0.00	3.95	0.25	0.00	0.00
1.40	0.08	0.00	0.00	4.00	0.26	0.00	0.00
1.45	0.08	0.00	0.00	4.05	0.26	0.00	0.00
1.50	0.09	0.00	0.00	4.10	0.26	0.00	0.00
1.55	0.09	0.00	0.00	4.15	0.27	0.00	0.00
1.60	0.09	0.00	0.00	4.20	0.27	0.00	0.00
1.65	0.10	0.00	0.00	4.25	0.27	0.00	0.00
1.70	0.10	0.00	0.00	4.30	0.28	0.00	0.00
1.75	0.10	0.00	0.00	4.35	0.28	0.00	0.00
1.80	0.11	0.00	0.00	4.40	0.29	0.00	0.00
1.85	0.11	0.00	0.00	4.45	0.29	0.00	0.00
1.90	0.11	0.00	0.00	4.50	0.29	0.00	0.00
1.95	0.12	0.00	0.00	4.55	0.30	0.00	0.00
2.00	0.12	0.00	0.00	4.60	0.30	0.00	0.00
2.05	0.12	0.00	0.00	4.65	0.31	0.00	0.00
2.10	0.12	0.00	0.00	4.70	0.31	0.00	0.00
2.15	0.13	0.00	0.00	4.75	0.31	0.00	0.00
2.20	0.13	0.00	0.00	4.80	0.32	0.00	0.00
2.25	0.13	0.00	0.00	4.85	0.32	0.00	0.00
2.30	0.14	0.00	0.00	4.90	0.32	0.00	0.00
2.35	0.14	0.00	0.00	4.95	0.33	0.00	0.00
2.40	0.14	0.00	0.00	5.00	0.33	0.00	0.00
2.45	0.15	0.00	0.00	5.05	0.34	0.00	0.00
2.50	0.15	0.00	0.00	5.10	0.34	0.00	0.00
2.55	0.15	0.00	0.00	5.15	0.34	0.00	0.00

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.35	0.00	0.00	7.80	0.60	0.02	0.00
5.25	0.35	0.00	0.00	7.85	0.61	0.02	0.00
5.30	0.36	0.00	0.00	7.90	0.61	0.03	0.00
5.35	0.36	0.00	0.00	7.95	0.62	0.03	0.00
5.40	0.36	0.00	0.00	8.00	0.63	0.03	0.00
5.45	0.37	0.00	0.00	8.05	0.63	0.03	0.00
5.50	0.37	0.00	0.00	8.10	0.64	0.03	0.00
5.55	0.38	0.00	0.00	8.15	0.65	0.03	0.00
5.60	0.38	0.00	0.00	8.20	0.65	0.03	0.00
5.65	0.39	0.00	0.00	8.25	0.66	0.04	0.00
5.70	0.39	0.00	0.00	8.30	0.67	0.04	0.00
5.75	0.39	0.00	0.00	8.35	0.67	0.04	0.00
5.80	0.40	0.00	0.00	8.40	0.68	0.04	0.00
5.85	0.40	0.00	0.00	8.45	0.69	0.04	0.00
5.90	0.41	0.00	0.00	8.50	0.69	0.04	0.00
5.95	0.41	0.00	0.00	8.55	0.70	0.05	0.00
6.00	0.41	0.00	0.00	8.60	0.71	0.05	0.00
6.05	0.42	0.00	0.00	8.65	0.71	0.05	0.00
6.10	0.42	0.00	0.00	8.70	0.72	0.05	0.00
6.15	0.43	0.00	0.00	8.75	0.73	0.05	0.00
6.20	0.43	0.00	0.00	8.80	0.73	0.06	0.00
6.25	0.44	0.00	0.00	8.85	0.74	0.06	0.00
6.30	0.44	0.00	0.00	8.90	0.75	0.06	0.00
6.35	0.45	0.00	0.00	8.95	0.76	0.06	0.00
6.40	0.45	0.00	0.00	9.00	0.76	0.06	0.00
6.45	0.45	0.00	0.00	9.05	0.77	0.07	0.01
6.50	0.46	0.00	0.00	9.10	0.78	0.07	0.01
6.55	0.46	0.00	0.00	9.15	0.79	0.07	0.01
6.60	0.47	0.00	0.00	9.20	0.80	0.07	0.01
6.65	0.47	0.00	0.00	9.25	0.80	0.08	0.01
6.70	0.48	0.00	0.00	9.30	0.81	0.08	0.01
6.75	0.48	0.01	0.00	9.35	0.82	0.08	0.01
6.80	0.49	0.01	0.00	9.40	0.83	0.09	0.01
6.85	0.49	0.01	0.00	9.45	0.84	0.09	0.01
6.90	0.50	0.01	0.00	9.50	0.85	0.09	0.01
6.95	0.50	0.01	0.00	9.55	0.86	0.10	0.01
7.00	0.51	0.01	0.00	9.60	0.87	0.10	0.01
7.05	0.52	0.01	0.00	9.65	0.88	0.10	0.01
7.10	0.52	0.01	0.00	9.70	0.89	0.11	0.01
7.15	0.53	0.01	0.00	9.75	0.90	0.11	0.01
7.20	0.53	0.01	0.00	9.80	0.91	0.11	0.01
7.25	0.54	0.01	0.00	9.85	0.92	0.12	0.01
7.30	0.54	0.01	0.00	9.90	0.93	0.12	0.01
7.35	0.55	0.01	0.00	9.95	0.94	0.13	0.01
7.40	0.55	0.01	0.00	10.00	0.95	0.13	0.01
7.45	0.56	0.02	0.00	10.05	0.97	0.14	0.01
7.50	0.57	0.02	0.00	10.10	0.98	0.14	0.01
7.55	0.57	0.02	0.00	10.15	0.99	0.15	0.01
7.60	0.58	0.02	0.00	10.20	1.00	0.15	0.01
7.65	0.58	0.02	0.00	10.25	1.01	0.16	0.01
7.70	0.59	0.02	0.00	10.30	1.03	0.16	0.01
7.75	0.60	0.02	0.00	10.35	1.04	0.17	0.01

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.05	0.17	0.01	13.00	3.97	2.35	0.05
10.45	1.06	0.18	0.01	13.05	4.00	2.37	0.04
10.50	1.08	0.19	0.01	13.10	4.02	2.39	0.04
10.55	1.09	0.19	0.01	13.15	4.04	2.40	0.04
10.60	1.11	0.20	0.02	13.20	4.05	2.42	0.04
10.65	1.12	0.21	0.02	13.25	4.07	2.44	0.04
10.70	1.14	0.22	0.02	13.30	4.09	2.45	0.03
10.75	1.16	0.22	0.02	13.35	4.11	2.47	0.03
10.80	1.18	0.23	0.02	13.40	4.12	2.48	0.03
10.85	1.19	0.24	0.02	13.45	4.14	2.49	0.03
10.90	1.21	0.25	0.02	13.50	4.15	2.51	0.03
10.95	1.23	0.26	0.02	13.55	4.17	2.52	0.03
11.00	1.26	0.28	0.02	13.60	4.18	2.53	0.03
11.05	1.28	0.29	0.03	13.65	4.19	2.54	0.03
11.10	1.30	0.30	0.03	13.70	4.20	2.55	0.03
11.15	1.33	0.31	0.03	13.75	4.22	2.56	0.02
11.20	1.35	0.33	0.03	13.80	4.23	2.57	0.02
11.25	1.38	0.35	0.04	13.85	4.24	2.58	0.02
11.30	1.41	0.36	0.04	13.90	4.25	2.60	0.02
11.35	1.45	0.38	0.04	13.95	4.26	2.61	0.02
11.40	1.48	0.40	0.04	14.00	4.28	2.62	0.02
11.45	1.51	0.42	0.05	14.05	4.29	2.63	0.02
11.50	1.55	0.44	0.05	14.10	4.30	2.64	0.02
11.55	1.60	0.47	0.07	14.15	4.31	2.65	0.02
11.60	1.65	0.51	0.07	14.20	4.32	2.66	0.02
11.65	1.71	0.54	0.08	14.25	4.33	2.67	0.02
11.70	1.76	0.58	0.08	14.30	4.34	2.67	0.02
11.75	1.84	0.63	0.11	14.35	4.35	2.68	0.02
11.80	1.92	0.68	0.12	14.40	4.36	2.69	0.02
11.85	2.02	0.76	0.16	14.45	4.37	2.70	0.02
11.90	2.13	0.84	0.17	14.50	4.38	2.71	0.02
11.95	2.31	0.97	0.28	14.55	4.39	2.72	0.02
12.00	2.49	1.11	0.31	14.60	4.40	2.73	0.02
12.05	2.80	1.35	0.50	14.65	4.41	2.73	0.02
12.10	3.10	1.60	**0.55**	14.70	4.42	2.74	0.02
12.15	3.21	1.69	0.25	14.75	4.43	2.75	0.02
12.20	3.31	1.78	0.20	14.80	4.43	2.76	0.02
12.25	3.39	1.84	0.15	14.85	4.44	2.76	0.02
12.30	3.47	1.91	0.14	14.90	4.45	2.77	0.02
12.35	3.52	1.96	0.11	14.95	4.46	2.78	0.02
12.40	3.58	2.00	0.11	15.00	4.47	2.79	0.02
12.45	3.63	2.05	0.10	15.05	4.47	2.79	0.01
12.50	3.68	2.10	0.10	15.10	4.48	2.80	0.01
12.55	3.72	2.13	0.07	15.15	4.49	2.81	0.01
12.60	3.75	2.15	0.07	15.20	4.50	2.81	0.01
12.65	3.78	2.18	0.06	15.25	4.50	2.82	0.01
12.70	3.82	2.21	0.06	15.30	4.51	2.83	0.01
12.75	3.85	2.24	0.06	15.35	4.52	2.83	0.01
12.80	3.88	2.26	0.06	15.40	4.52	2.84	0.01
12.85	3.90	2.28	0.05	15.45	4.53	2.84	0.01
12.90	3.93	2.31	0.05	15.50	4.54	2.85	0.01
12.95	3.95	2.33	0.05	15.55	4.54	2.86	0.01

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	4.55	2.86	0.01	18.20	4.83	3.12	0.01
15.65	4.56	2.87	0.01	18.25	4.84	3.12	0.01
15.70	4.56	2.87	0.01	18.30	4.84	3.12	0.01
15.75	4.57	2.88	0.01	18.35	4.84	3.13	0.01
15.80	4.58	2.89	0.01	18.40	4.85	3.13	0.01
15.85	4.58	2.89	0.01	18.45	4.85	3.14	0.01
15.90	4.59	2.90	0.01	18.50	4.86	3.14	0.01
15.95	4.60	2.90	0.01	18.55	4.86	3.14	0.01
16.00	4.60	2.91	0.01	18.60	4.87	3.15	0.01
16.05	4.61	2.92	0.01	18.65	4.87	3.15	0.01
16.10	4.62	2.92	0.01	18.70	4.87	3.15	0.01
16.15	4.62	2.93	0.01	18.75	4.88	3.16	0.01
16.20	4.63	2.93	0.01	18.80	4.88	3.16	0.01
16.25	4.63	2.94	0.01	18.85	4.89	3.17	0.01
16.30	4.64	2.94	0.01	18.90	4.89	3.17	0.01
16.35	4.65	2.95	0.01	18.95	4.89	3.17	0.01
16.40	4.65	2.95	0.01	19.00	4.90	3.18	0.01
16.45	4.66	2.96	0.01	19.05	4.90	3.18	0.01
16.50	4.66	2.96	0.01	19.10	4.91	3.18	0.01
16.55	4.67	2.97	0.01	19.15	4.91	3.19	0.01
16.60	4.68	2.98	0.01	19.20	4.91	3.19	0.01
16.65	4.68	2.98	0.01	19.25	4.92	3.19	0.01
16.70	4.69	2.99	0.01	19.30	4.92	3.20	0.01
16.75	4.69	2.99	0.01	19.35	4.92	3.20	0.01
16.80	4.70	3.00	0.01	19.40	4.93	3.21	0.01
16.85	4.70	3.00	0.01	19.45	4.93	3.21	0.01
16.90	4.71	3.01	0.01	19.50	4.94	3.21	0.01
16.95	4.71	3.01	0.01	19.55	4.94	3.22	0.01
17.00	4.72	3.02	0.01	19.60	4.94	3.22	0.01
17.05	4.73	3.02	0.01	19.65	4.95	3.22	0.01
17.10	4.73	3.02	0.01	19.70	4.95	3.23	0.01
17.15	4.74	3.03	0.01	19.75	4.96	3.23	0.01
17.20	4.74	3.03	0.01	19.80	4.96	3.23	0.01
17.25	4.75	3.04	0.01	19.85	4.96	3.24	0.01
17.30	4.75	3.04	0.01	19.90	4.97	3.24	0.01
17.35	4.76	3.05	0.01	19.95	4.97	3.24	0.01
17.40	4.76	3.05	0.01	20.00	4.97	3.25	0.01
17.45	4.77	3.06	0.01	20.05	4.98	3.25	0.01
17.50	4.77	3.06	0.01	20.10	4.98	3.25	0.01
17.55	4.78	3.07	0.01	20.15	4.99	3.26	0.01
17.60	4.78	3.07	0.01	20.20	4.99	3.26	0.01
17.65	4.78	3.07	0.01	20.25	4.99	3.26	0.01
17.70	4.79	3.08	0.01	20.30	5.00	3.27	0.01
17.75	4.79	3.08	0.01	20.35	5.00	3.27	0.01
17.80	4.80	3.09	0.01	20.40	5.00	3.27	0.01
17.85	4.80	3.09	0.01	20.45	5.01	3.28	0.01
17.90	4.81	3.09	0.01	20.50	5.01	3.28	0.01
17.95	4.81	3.10	0.01	20.55	5.01	3.28	0.01
18.00	4.82	3.10	0.01	20.60	5.02	3.29	0.01
18.05	4.82	3.11	0.01	20.65	5.02	3.29	0.01
18.10	4.82	3.11	0.01	20.70	5.02	3.29	0.01
18.15	4.83	3.11	0.01	20.75	5.03	3.30	0.01

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.03	3.30	0.01	23.40	5.20	3.45	0.01
20.85	5.04	3.30	0.01	23.45	5.20	3.45	0.01
20.90	5.04	3.31	0.01	23.50	5.20	3.46	0.01
20.95	5.04	3.31	0.01	23.55	5.20	3.46	0.01
21.00	5.05	3.31	0.01	23.60	5.21	3.46	0.01
21.05	5.05	3.32	0.01	23.65	5.21	3.46	0.01
21.10	5.05	3.32	0.01	23.70	5.21	3.47	0.01
21.15	5.06	3.32	0.01	23.75	5.22	3.47	0.01
21.20	5.06	3.32	0.01	23.80	5.22	3.47	0.01
21.25	5.06	3.33	0.01	23.85	5.22	3.47	0.01
21.30	5.07	3.33	0.01	23.90	5.22	3.48	0.01
21.35	5.07	3.33	0.01	23.95	5.23	3.48	0.01
21.40	5.07	3.34	0.01	24.00	**5.23**	**3.48**	0.01
21.45	5.08	3.34	0.01				
21.50	5.08	3.34	0.01				
21.55	5.08	3.35	0.01				
21.60	5.09	3.35	0.01				
21.65	5.09	3.35	0.01				
21.70	5.09	3.36	0.01				
21.75	5.10	3.36	0.01				
21.80	5.10	3.36	0.01				
21.85	5.10	3.36	0.01				
21.90	5.11	3.37	0.01				
21.95	5.11	3.37	0.01				
22.00	5.11	3.37	0.01				
22.05	5.11	3.38	0.01				
22.10	5.12	3.38	0.01				
22.15	5.12	3.38	0.01				
22.20	5.12	3.38	0.01				
22.25	5.13	3.39	0.01				
22.30	5.13	3.39	0.01				
22.35	5.13	3.39	0.01				
22.40	5.14	3.40	0.01				
22.45	5.14	3.40	0.01				
22.50	5.14	3.40	0.01				
22.55	5.15	3.40	0.01				
22.60	5.15	3.41	0.01				
22.65	5.15	3.41	0.01				
22.70	5.16	3.41	0.01				
22.75	5.16	3.42	0.01				
22.80	5.16	3.42	0.01				
22.85	5.16	3.42	0.01				
22.90	5.17	3.42	0.01				
22.95	5.17	3.43	0.01				
23.00	5.17	3.43	0.01				
23.05	5.18	3.43	0.01				
23.10	5.18	3.43	0.01				
23.15	5.18	3.44	0.01				
23.20	5.18	3.44	0.01				
23.25	5.19	3.44	0.01				
23.30	5.19	3.44	0.01				
23.35	5.19	3.45	0.01				

Summary for Subcatchment PDA1A IMP: PDA1A IMP

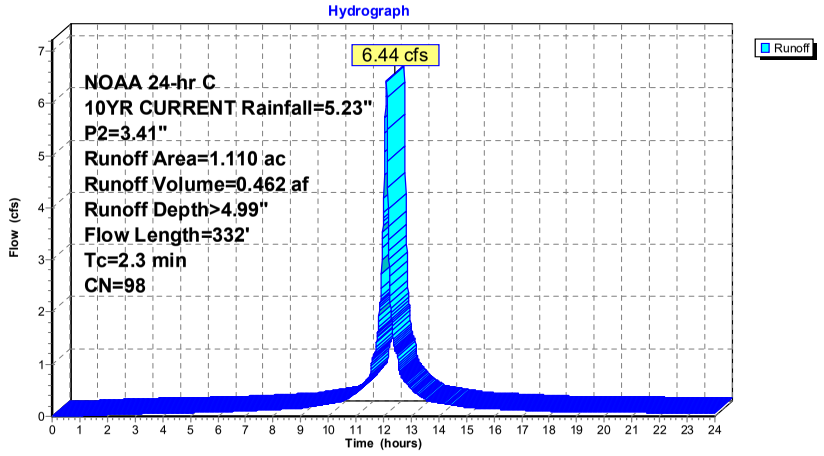
Runoff = 6.44 cfs @ 12.11 hrs, Volume= 0.462 af, Depth> 4.99"
Routed to Link P1A : P1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR CURRENT Rainfall=5.23", P2=3.41"

	Area (ac)	CN	Description
*	0.340	98	Impervious vehicular
	0.770	98	Roofs, HSG D
	1.110	98	Weighted Average
	1.110		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	100	0.0160	1.30		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.4	47	0.0100	2.03		**Shallow Concentrated Flow, paved** Paved Kv= 20.3 fps
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
2.3	332	Total			

Subcatchment PDA1A IMP: PDA1A IMP



Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.16	0.04	0.04
0.05	0.00	0.00	0.00	2.65	0.16	0.04	0.04
0.10	0.01	0.00	0.00	2.70	0.16	0.05	0.05
0.15	0.01	0.00	0.00	2.75	0.17	0.05	0.05
0.20	0.01	0.00	0.00	2.80	0.17	0.05	0.05
0.25	0.01	0.00	0.00	2.85	0.17	0.05	0.05
0.30	0.02	0.00	0.00	2.90	0.18	0.05	0.05
0.35	0.02	0.00	0.00	2.95	0.18	0.06	0.05
0.40	0.02	0.00	0.00	3.00	0.18	0.06	0.05
0.45	0.03	0.00	0.00	3.05	0.19	0.06	0.05
0.50	0.03	0.00	0.00	3.10	0.19	0.06	0.05
0.55	0.03	0.00	0.00	3.15	0.19	0.07	0.05
0.60	0.03	0.00	0.00	3.20	0.20	0.07	0.05
0.65	0.04	0.00	0.00	3.25	0.20	0.07	0.05
0.70	0.04	0.00	0.00	3.30	0.21	0.07	0.05
0.75	0.04	0.00	0.00	3.35	0.21	0.08	0.05
0.80	0.05	0.00	0.00	3.40	0.21	0.08	0.06
0.85	0.05	0.00	0.00	3.45	0.22	0.08	0.06
0.90	0.05	0.00	0.00	3.50	0.22	0.08	0.06
0.95	0.05	0.00	0.01	3.55	0.22	0.09	0.06
1.00	0.06	0.00	0.01	3.60	0.23	0.09	0.06
1.05	0.06	0.00	0.01	3.65	0.23	0.09	0.06
1.10	0.06	0.00	0.01	3.70	0.23	0.09	0.06
1.15	0.07	0.00	0.01	3.75	0.24	0.10	0.06
1.20	0.07	0.00	0.01	3.80	0.24	0.10	0.06
1.25	0.07	0.00	0.01	3.85	0.24	0.10	0.06
1.30	0.07	0.00	0.02	3.90	0.25	0.10	0.06
1.35	0.08	0.01	0.02	3.95	0.25	0.11	0.06
1.40	0.08	0.01	0.02	4.00	0.26	0.11	0.06
1.45	0.08	0.01	0.02	4.05	0.26	0.11	0.06
1.50	0.09	0.01	0.02	4.10	0.26	0.12	0.06
1.55	0.09	0.01	0.02	4.15	0.27	0.12	0.06
1.60	0.09	0.01	0.02	4.20	0.27	0.12	0.06
1.65	0.10	0.01	0.03	4.25	0.27	0.12	0.07
1.70	0.10	0.01	0.03	4.30	0.28	0.13	0.07
1.75	0.10	0.01	0.03	4.35	0.28	0.13	0.07
1.80	0.11	0.02	0.03	4.40	0.29	0.13	0.07
1.85	0.11	0.02	0.03	4.45	0.29	0.14	0.07
1.90	0.11	0.02	0.03	4.50	0.29	0.14	0.07
1.95	0.12	0.02	0.03	4.55	0.30	0.14	0.07
2.00	0.12	0.02	0.03	4.60	0.30	0.15	0.07
2.05	0.12	0.02	0.03	4.65	0.31	0.15	0.07
2.10	0.12	0.02	0.03	4.70	0.31	0.15	0.07
2.15	0.13	0.03	0.04	4.75	0.31	0.16	0.07
2.20	0.13	0.03	0.04	4.80	0.32	0.16	0.07
2.25	0.13	0.03	0.04	4.85	0.32	0.16	0.07
2.30	0.14	0.03	0.04	4.90	0.32	0.17	0.07
2.35	0.14	0.03	0.04	4.95	0.33	0.17	0.07
2.40	0.14	0.03	0.04	5.00	0.33	0.17	0.07
2.45	0.15	0.04	0.04	5.05	0.34	0.18	0.07
2.50	0.15	0.04	0.04	5.10	0.34	0.18	0.07
2.55	0.15	0.04	0.04	5.15	0.34	0.18	0.07

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.35	0.19	0.07	7.80	0.60	0.41	0.13
5.25	0.35	0.19	0.08	7.85	0.61	0.42	0.13
5.30	0.36	0.19	0.08	7.90	0.61	0.42	0.13
5.35	0.36	0.20	0.08	7.95	0.62	0.43	0.13
5.40	0.36	0.20	0.08	8.00	0.63	0.43	0.13
5.45	0.37	0.20	0.08	8.05	0.63	0.44	0.13
5.50	0.37	0.21	0.08	8.10	0.64	0.45	0.13
5.55	0.38	0.21	0.08	8.15	0.65	0.45	0.13
5.60	0.38	0.21	0.08	8.20	0.65	0.46	0.14
5.65	0.39	0.22	0.08	8.25	0.66	0.46	0.14
5.70	0.39	0.22	0.08	8.30	0.67	0.47	0.14
5.75	0.39	0.22	0.08	8.35	0.67	0.48	0.14
5.80	0.40	0.23	0.08	8.40	0.68	0.48	0.14
5.85	0.40	0.23	0.08	8.45	0.69	0.49	0.14
5.90	0.41	0.23	0.08	8.50	0.69	0.50	0.14
5.95	0.41	0.24	0.08	8.55	0.70	0.50	0.14
6.00	0.41	0.24	0.08	8.60	0.71	0.51	0.15
6.05	0.42	0.25	0.08	8.65	0.71	0.52	0.15
6.10	0.42	0.25	0.08	8.70	0.72	0.52	0.15
6.15	0.43	0.25	0.09	8.75	0.73	0.53	0.15
6.20	0.43	0.26	0.09	8.80	0.73	0.54	0.15
6.25	0.44	0.26	0.09	8.85	0.74	0.54	0.15
6.30	0.44	0.27	0.09	8.90	0.75	0.55	0.15
6.35	0.45	0.27	0.09	8.95	0.76	0.56	0.15
6.40	0.45	0.27	0.09	9.00	0.76	0.56	0.16
6.45	0.45	0.28	0.09	9.05	0.77	0.57	0.16
6.50	0.46	0.28	0.09	9.10	0.78	0.58	0.16
6.55	0.46	0.29	0.10	9.15	0.79	0.59	0.17
6.60	0.47	0.29	0.10	9.20	0.80	0.59	0.17
6.65	0.47	0.29	0.10	9.25	0.80	0.60	0.18
6.70	0.48	0.30	0.10	9.30	0.81	0.61	0.18
6.75	0.48	0.30	0.10	9.35	0.82	0.62	0.19
6.80	0.49	0.31	0.10	9.40	0.83	0.63	0.19
6.85	0.49	0.31	0.10	9.45	0.84	0.64	0.19
6.90	0.50	0.32	0.10	9.50	0.85	0.65	0.20
6.95	0.50	0.32	0.11	9.55	0.86	0.65	0.20
7.00	0.51	0.33	0.11	9.60	0.87	0.66	0.21
7.05	0.52	0.33	0.11	9.65	0.88	0.67	0.21
7.10	0.52	0.34	0.11	9.70	0.89	0.68	0.22
7.15	0.53	0.34	0.11	9.75	0.90	0.69	0.22
7.20	0.53	0.35	0.11	9.80	0.91	0.70	0.22
7.25	0.54	0.35	0.11	9.85	0.92	0.71	0.23
7.30	0.54	0.36	0.11	9.90	0.93	0.72	0.23
7.35	0.55	0.36	0.12	9.95	0.94	0.74	0.24
7.40	0.55	0.37	0.12	10.00	0.95	0.75	0.24
7.45	0.56	0.37	0.12	10.05	0.97	0.76	0.25
7.50	0.57	0.38	0.12	10.10	0.98	0.77	0.25
7.55	0.57	0.38	0.12	10.15	0.99	0.78	0.26
7.60	0.58	0.39	0.12	10.20	1.00	0.79	0.26
7.65	0.58	0.39	0.12	10.25	1.01	0.80	0.27
7.70	0.59	0.40	0.12	10.30	1.03	0.82	0.27
7.75	0.60	0.41	0.12	10.35	1.04	0.83	0.27

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.05	0.84	0.28	13.00	3.97	3.74	0.54
10.45	1.06	0.85	0.28	13.05	4.00	3.76	0.50
10.50	1.08	0.87	0.29	13.10	4.02	3.78	0.47
10.55	1.09	0.88	0.30	13.15	4.04	3.80	0.45
10.60	1.11	0.90	0.32	13.20	4.05	3.82	0.43
10.65	1.12	0.91	0.34	13.25	4.07	3.84	0.41
10.70	1.14	0.93	0.35	13.30	4.09	3.86	0.40
10.75	1.16	0.94	0.37	13.35	4.11	3.87	0.38
10.80	1.18	0.96	0.38	13.40	4.12	3.89	0.37
10.85	1.19	0.98	0.40	13.45	4.14	3.90	0.35
10.90	1.21	1.00	0.42	13.50	4.15	3.92	0.33
10.95	1.23	1.02	0.44	13.55	4.17	3.93	0.31
11.00	1.26	1.04	0.45	13.60	4.18	3.94	0.30
11.05	1.28	1.06	0.49	13.65	4.19	3.96	0.29
11.10	1.30	1.09	0.51	13.70	4.20	3.97	0.29
11.15	1.33	1.11	0.55	13.75	4.22	3.98	0.28
11.20	1.35	1.14	0.57	13.80	4.23	3.99	0.28
11.25	1.38	1.17	0.61	13.85	4.24	4.01	0.27
11.30	1.41	1.19	0.63	13.90	4.25	4.02	0.27
11.35	1.45	1.23	0.67	13.95	4.26	4.03	0.26
11.40	1.48	1.26	0.69	14.00	4.28	4.04	0.26
11.45	1.51	1.29	0.73	14.05	4.29	4.05	0.26
11.50	1.55	1.32	0.75	14.10	4.30	4.06	0.25
11.55	1.60	1.38	0.97	14.15	4.31	4.07	0.25
11.60	1.65	1.43	1.11	14.20	4.32	4.09	0.24
11.65	1.71	1.48	1.19	14.25	4.33	4.10	0.24
11.70	1.76	1.54	1.22	14.30	4.34	4.11	0.24
11.75	1.84	1.61	1.47	14.35	4.35	4.12	0.23
11.80	1.92	1.69	1.62	14.40	4.36	4.13	0.23
11.85	2.02	1.80	2.02	14.45	4.37	4.14	0.22
11.90	2.13	1.90	2.25	14.50	4.38	4.15	0.22
11.95	2.31	2.08	3.23	14.55	4.39	4.15	0.21
12.00	2.49	2.26	3.81	14.60	4.40	4.16	0.21
12.05	2.80	2.57	5.44	14.65	4.41	4.17	0.20
12.10	3.10	2.87	**6.39**	14.70	4.42	4.18	0.20
12.15	3.21	2.98	**4.37**	14.75	4.43	4.19	0.19
12.20	3.31	3.08	2.99	14.80	4.43	4.20	0.19
12.25	3.39	3.16	2.18	14.85	4.44	4.21	0.19
12.30	3.47	3.23	1.83	14.90	4.45	4.21	0.18
12.35	3.52	3.29	1.49	14.95	4.46	4.22	0.18
12.40	3.58	3.35	1.31	15.00	4.47	4.23	0.17
12.45	3.63	3.40	1.23	15.05	4.47	4.24	0.17
12.50	3.68	3.45	1.19	15.10	4.48	4.24	0.17
12.55	3.72	3.48	0.96	15.15	4.49	4.25	0.16
12.60	3.75	3.52	0.82	15.20	4.50	4.26	0.16
12.65	3.78	3.55	0.75	15.25	4.50	4.27	0.16
12.70	3.82	3.58	0.72	15.30	4.51	4.27	0.16
12.75	3.85	3.61	0.68	15.35	4.52	4.28	0.16
12.80	3.88	3.64	0.66	15.40	4.52	4.29	0.16
12.85	3.90	3.67	0.62	15.45	4.53	4.29	0.16
12.90	3.93	3.69	0.60	15.50	4.54	4.30	0.15
12.95	3.95	3.72	0.56	15.55	4.54	4.31	0.15

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	4.55	4.31	0.15	18.20	4.83	4.60	0.09
15.65	4.56	4.32	0.15	18.25	4.84	4.60	0.09
15.70	4.56	4.33	0.15	18.30	4.84	4.60	0.09
15.75	4.57	4.33	0.15	18.35	4.84	4.61	0.09
15.80	4.58	4.34	0.15	18.40	4.85	4.61	0.09
15.85	4.58	4.35	0.15	18.45	4.85	4.62	0.09
15.90	4.59	4.35	0.15	18.50	4.86	4.62	0.09
15.95	4.60	4.36	0.14	18.55	4.86	4.62	0.09
16.00	4.60	4.37	0.14	18.60	4.87	4.63	0.09
16.05	4.61	4.37	0.14	18.65	4.87	4.63	0.09
16.10	4.62	4.38	0.14	18.70	4.87	4.64	0.09
16.15	4.62	4.39	0.14	18.75	4.88	4.64	0.09
16.20	4.63	4.39	0.14	18.80	4.88	4.64	0.09
16.25	4.63	4.40	0.14	18.85	4.89	4.65	0.09
16.30	4.64	4.40	0.14	18.90	4.89	4.65	0.09
16.35	4.65	4.41	0.13	18.95	4.89	4.66	0.09
16.40	4.65	4.42	0.13	19.00	4.90	4.66	0.09
16.45	4.66	4.42	0.13	19.05	4.90	4.66	0.09
16.50	4.66	4.43	0.13	19.10	4.91	4.67	0.09
16.55	4.67	4.43	0.13	19.15	4.91	4.67	0.09
16.60	4.68	4.44	0.13	19.20	4.91	4.68	0.09
16.65	4.68	4.45	0.13	19.25	4.92	4.68	0.09
16.70	4.69	4.45	0.13	19.30	4.92	4.68	0.09
16.75	4.69	4.46	0.13	19.35	4.92	4.69	0.09
16.80	4.70	4.46	0.12	19.40	4.93	4.69	0.09
16.85	4.70	4.47	0.12	19.45	4.93	4.70	0.09
16.90	4.71	4.47	0.12	19.50	4.94	4.70	0.09
16.95	4.71	4.48	0.12	19.55	4.94	4.70	0.09
17.00	4.72	4.48	0.12	19.60	4.94	4.71	0.09
17.05	4.73	4.49	0.12	19.65	4.95	4.71	0.09
17.10	4.73	4.49	0.12	19.70	4.95	4.71	0.08
17.15	4.74	4.50	0.12	19.75	4.96	4.72	0.08
17.20	4.74	4.50	0.12	19.80	4.96	4.72	0.08
17.25	4.75	4.51	0.11	19.85	4.96	4.73	0.08
17.30	4.75	4.51	0.11	19.90	4.97	4.73	0.08
17.35	4.76	4.52	0.11	19.95	4.97	4.73	0.08
17.40	4.76	4.52	0.11	20.00	4.97	4.74	0.08
17.45	4.77	4.53	0.11	20.05	4.98	4.74	0.08
17.50	4.77	4.53	0.11	20.10	4.98	4.74	0.08
17.55	4.78	4.54	0.11	20.15	4.99	4.75	0.08
17.60	4.78	4.54	0.11	20.20	4.99	4.75	0.08
17.65	4.78	4.55	0.10	20.25	4.99	4.76	0.08
17.70	4.79	4.55	0.10	20.30	5.00	4.76	0.08
17.75	4.79	4.56	0.10	20.35	5.00	4.76	0.08
17.80	4.80	4.56	0.10	20.40	5.00	4.77	0.08
17.85	4.80	4.57	0.10	20.45	5.01	4.77	0.08
17.90	4.81	4.57	0.10	20.50	5.01	4.77	0.08
17.95	4.81	4.57	0.10	20.55	5.01	4.78	0.08
18.00	4.82	4.58	0.10	20.60	5.02	4.78	0.08
18.05	4.82	4.58	0.10	20.65	5.02	4.78	0.08
18.10	4.82	4.59	0.09	20.70	5.02	4.79	0.08
18.15	4.83	4.59	0.09	20.75	5.03	4.79	0.08

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.03	4.79	0.08	23.40	5.20	4.96	0.06
20.85	5.04	4.80	0.08	23.45	5.20	4.96	0.06
20.90	5.04	4.80	0.08	23.50	5.20	4.96	0.06
20.95	5.04	4.81	0.08	23.55	5.20	4.97	0.06
21.00	5.05	4.81	0.08	23.60	5.21	4.97	0.06
21.05	5.05	4.81	0.08	23.65	5.21	4.97	0.06
21.10	5.05	4.82	0.08	23.70	5.21	4.98	0.06
21.15	5.06	4.82	0.08	23.75	5.22	4.98	0.06
21.20	5.06	4.82	0.08	23.80	5.22	4.98	0.06
21.25	5.06	4.83	0.08	23.85	5.22	4.98	0.06
21.30	5.07	4.83	0.08	23.90	5.22	4.99	0.06
21.35	5.07	4.83	0.08	23.95	5.23	4.99	0.07
21.40	5.07	4.84	0.07	24.00	**5.23**	**4.99**	0.07
21.45	5.08	4.84	0.07				
21.50	5.08	4.84	0.07				
21.55	5.08	4.85	0.07				
21.60	5.09	4.85	0.07				
21.65	5.09	4.85	0.07				
21.70	5.09	4.86	0.07				
21.75	5.10	4.86	0.07				
21.80	5.10	4.86	0.07				
21.85	5.10	4.87	0.07				
21.90	5.11	4.87	0.07				
21.95	5.11	4.87	0.07				
22.00	5.11	4.87	0.07				
22.05	5.11	4.88	0.07				
22.10	5.12	4.88	0.07				
22.15	5.12	4.88	0.07				
22.20	5.12	4.89	0.07				
22.25	5.13	4.89	0.07				
22.30	5.13	4.89	0.07				
22.35	5.13	4.90	0.07				
22.40	5.14	4.90	0.07				
22.45	5.14	4.90	0.07				
22.50	5.14	4.91	0.07				
22.55	5.15	4.91	0.07				
22.60	5.15	4.91	0.07				
22.65	5.15	4.91	0.07				
22.70	5.16	4.92	0.07				
22.75	5.16	4.92	0.07				
22.80	5.16	4.92	0.07				
22.85	5.16	4.93	0.07				
22.90	5.17	4.93	0.07				
22.95	5.17	4.93	0.07				
23.00	5.17	4.94	0.07				
23.05	5.18	4.94	0.07				
23.10	5.18	4.94	0.07				
23.15	5.18	4.94	0.06				
23.20	5.18	4.95	0.06				
23.25	5.19	4.95	0.06				
23.30	5.19	4.95	0.06				
23.35	5.19	4.96	0.06				

Summary for Subcatchment PDA1A PERV: PDA-1A PERV

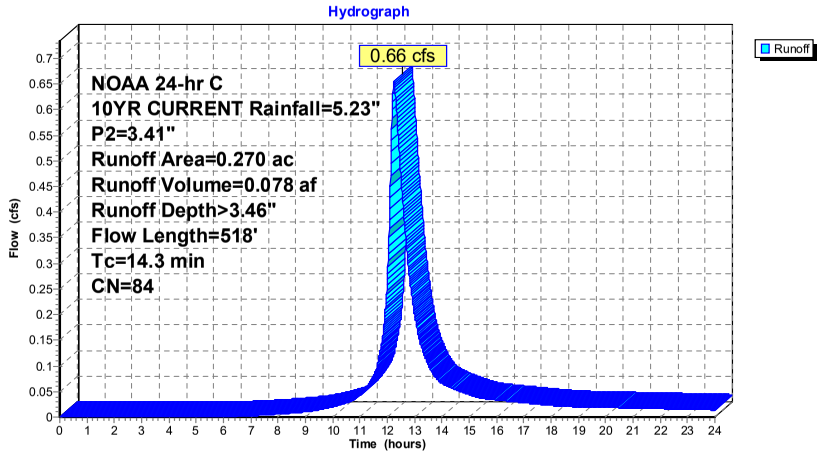
Runoff = 0.66 cfs @ 12.24 hrs, Volume= 0.078 af, Depth> 3.46"
Routed to Link P1A : P1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR CURRENT Rainfall=5.23", P2=3.41"

	Area (ac)	CN	Description
*	0.270	84	>75% Grass cover, Good, HSG D
	0.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.5	100	0.0100	0.13		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
0.1	22	0.0075	4.46	7.88	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP-2 Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
14.3	518	Total			

Subcatchment PDA1A PERV: PDA-1A PERV



Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.16	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.16	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.16	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.17	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.17	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.17	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.18	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.18	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.18	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.19	0.00	0.00
0.50	0.03	0.00	0.00	3.10	0.19	0.00	0.00
0.55	0.03	0.00	0.00	3.15	0.19	0.00	0.00
0.60	0.03	0.00	0.00	3.20	0.20	0.00	0.00
0.65	0.04	0.00	0.00	3.25	0.20	0.00	0.00
0.70	0.04	0.00	0.00	3.30	0.21	0.00	0.00
0.75	0.04	0.00	0.00	3.35	0.21	0.00	0.00
0.80	0.05	0.00	0.00	3.40	0.21	0.00	0.00
0.85	0.05	0.00	0.00	3.45	0.22	0.00	0.00
0.90	0.05	0.00	0.00	3.50	0.22	0.00	0.00
0.95	0.05	0.00	0.00	3.55	0.22	0.00	0.00
1.00	0.06	0.00	0.00	3.60	0.23	0.00	0.00
1.05	0.06	0.00	0.00	3.65	0.23	0.00	0.00
1.10	0.06	0.00	0.00	3.70	0.23	0.00	0.00
1.15	0.07	0.00	0.00	3.75	0.24	0.00	0.00
1.20	0.07	0.00	0.00	3.80	0.24	0.00	0.00
1.25	0.07	0.00	0.00	3.85	0.24	0.00	0.00
1.30	0.07	0.00	0.00	3.90	0.25	0.00	0.00
1.35	0.08	0.00	0.00	3.95	0.25	0.00	0.00
1.40	0.08	0.00	0.00	4.00	0.26	0.00	0.00
1.45	0.08	0.00	0.00	4.05	0.26	0.00	0.00
1.50	0.09	0.00	0.00	4.10	0.26	0.00	0.00
1.55	0.09	0.00	0.00	4.15	0.27	0.00	0.00
1.60	0.09	0.00	0.00	4.20	0.27	0.00	0.00
1.65	0.10	0.00	0.00	4.25	0.27	0.00	0.00
1.70	0.10	0.00	0.00	4.30	0.28	0.00	0.00
1.75	0.10	0.00	0.00	4.35	0.28	0.00	0.00
1.80	0.11	0.00	0.00	4.40	0.29	0.00	0.00
1.85	0.11	0.00	0.00	4.45	0.29	0.00	0.00
1.90	0.11	0.00	0.00	4.50	0.29	0.00	0.00
1.95	0.12	0.00	0.00	4.55	0.30	0.00	0.00
2.00	0.12	0.00	0.00	4.60	0.30	0.00	0.00
2.05	0.12	0.00	0.00	4.65	0.31	0.00	0.00
2.10	0.12	0.00	0.00	4.70	0.31	0.00	0.00
2.15	0.13	0.00	0.00	4.75	0.31	0.00	0.00
2.20	0.13	0.00	0.00	4.80	0.32	0.00	0.00
2.25	0.13	0.00	0.00	4.85	0.32	0.00	0.00
2.30	0.14	0.00	0.00	4.90	0.32	0.00	0.00
2.35	0.14	0.00	0.00	4.95	0.33	0.00	0.00
2.40	0.14	0.00	0.00	5.00	0.33	0.00	0.00
2.45	0.15	0.00	0.00	5.05	0.34	0.00	0.00
2.50	0.15	0.00	0.00	5.10	0.34	0.00	0.00
2.55	0.15	0.00	0.00	5.15	0.34	0.00	0.00

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.35	0.00	0.00	7.80	0.60	0.02	0.01
5.25	0.35	0.00	0.00	7.85	0.61	0.02	0.01
5.30	0.36	0.00	0.00	7.90	0.61	0.03	0.01
5.35	0.36	0.00	0.00	7.95	0.62	0.03	0.01
5.40	0.36	0.00	0.00	8.00	0.63	0.03	0.01
5.45	0.37	0.00	0.00	8.05	0.63	0.03	0.01
5.50	0.37	0.00	0.00	8.10	0.64	0.03	0.01
5.55	0.38	0.00	0.00	8.15	0.65	0.03	0.01
5.60	0.38	0.00	0.00	8.20	0.65	0.03	0.01
5.65	0.39	0.00	0.00	8.25	0.66	0.04	0.01
5.70	0.39	0.00	0.00	8.30	0.67	0.04	0.01
5.75	0.39	0.00	0.00	8.35	0.67	0.04	0.01
5.80	0.40	0.00	0.00	8.40	0.68	0.04	0.01
5.85	0.40	0.00	0.00	8.45	0.69	0.04	0.01
5.90	0.41	0.00	0.00	8.50	0.69	0.04	0.01
5.95	0.41	0.00	0.00	8.55	0.70	0.05	0.01
6.00	0.41	0.00	0.00	8.60	0.71	0.05	0.01
6.05	0.42	0.00	0.00	8.65	0.71	0.05	0.01
6.10	0.42	0.00	0.00	8.70	0.72	0.05	0.01
6.15	0.43	0.00	0.00	8.75	0.73	0.05	0.01
6.20	0.43	0.00	0.00	8.80	0.73	0.06	0.01
6.25	0.44	0.00	0.00	8.85	0.74	0.06	0.01
6.30	0.44	0.00	0.00	8.90	0.75	0.06	0.01
6.35	0.45	0.00	0.00	8.95	0.76	0.06	0.01
6.40	0.45	0.00	0.00	9.00	0.76	0.06	0.01
6.45	0.45	0.00	0.00	9.05	0.77	0.07	0.01
6.50	0.46	0.00	0.00	9.10	0.78	0.07	0.01
6.55	0.46	0.00	0.00	9.15	0.79	0.07	0.01
6.60	0.47	0.00	0.00	9.20	0.80	0.07	0.01
6.65	0.47	0.00	0.00	9.25	0.80	0.08	0.01
6.70	0.48	0.00	0.00	9.30	0.81	0.08	0.01
6.75	0.48	0.01	0.00	9.35	0.82	0.08	0.01
6.80	0.49	0.01	0.00	9.40	0.83	0.09	0.01
6.85	0.49	0.01	0.00	9.45	0.84	0.09	0.01
6.90	0.50	0.01	0.00	9.50	0.85	0.09	0.01
6.95	0.50	0.01	0.00	9.55	0.86	0.10	0.01
7.00	0.51	0.01	0.00	9.60	0.87	0.10	0.02
7.05	0.52	0.01	0.00	9.65	0.88	0.10	0.02
7.10	0.52	0.01	0.00	9.70	0.89	0.11	0.02
7.15	0.53	0.01	0.00	9.75	0.90	0.11	0.02
7.20	0.53	0.01	0.00	9.80	0.91	0.11	0.02
7.25	0.54	0.01	0.00	9.85	0.92	0.12	0.02
7.30	0.54	0.01	0.00	9.90	0.93	0.12	0.02
7.35	0.55	0.01	0.00	9.95	0.94	0.13	0.02
7.40	0.55	0.01	0.00	10.00	0.95	0.13	0.02
7.45	0.56	0.02	0.00	10.05	0.97	0.14	0.02
7.50	0.57	0.02	0.00	10.10	0.98	0.14	0.02
7.55	0.57	0.02	0.00	10.15	0.99	0.15	0.02
7.60	0.58	0.02	0.00	10.20	1.00	0.15	0.02
7.65	0.58	0.02	0.00	10.25	1.01	0.16	0.02
7.70	0.59	0.02	0.00	10.30	1.03	0.16	0.02
7.75	0.60	0.02	0.00	10.35	1.04	0.17	0.03

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.05	0.17	0.03	13.00	3.97	2.35	0.20
10.45	1.06	0.18	0.03	13.05	4.00	2.37	0.18
10.50	1.08	0.19	0.03	13.10	4.02	2.39	0.17
10.55	1.09	0.19	0.03	13.15	4.04	2.40	0.16
10.60	1.11	0.20	0.03	13.20	4.05	2.42	0.15
10.65	1.12	0.21	0.03	13.25	4.07	2.44	0.14
10.70	1.14	0.22	0.03	13.30	4.09	2.45	0.13
10.75	1.16	0.22	0.03	13.35	4.11	2.47	0.12
10.80	1.18	0.23	0.04	13.40	4.12	2.48	0.11
10.85	1.19	0.24	0.04	13.45	4.14	2.49	0.11
10.90	1.21	0.25	0.04	13.50	4.15	2.51	0.10
10.95	1.23	0.26	0.04	13.55	4.17	2.52	0.10
11.00	1.26	0.28	0.04	13.60	4.18	2.53	0.09
11.05	1.28	0.29	0.05	13.65	4.19	2.54	0.09
11.10	1.30	0.30	0.05	13.70	4.20	2.55	0.08
11.15	1.33	0.31	0.05	13.75	4.22	2.56	0.08
11.20	1.35	0.33	0.05	13.80	4.23	2.57	0.08
11.25	1.38	0.35	0.06	13.85	4.24	2.58	0.07
11.30	1.41	0.36	0.06	13.90	4.25	2.60	0.07
11.35	1.45	0.38	0.07	13.95	4.26	2.61	0.07
11.40	1.48	0.40	0.07	14.00	4.28	2.62	0.07
11.45	1.51	0.42	0.08	14.05	4.29	2.63	0.06
11.50	1.55	0.44	0.08	14.10	4.30	2.64	0.06
11.55	1.60	0.47	0.09	14.15	4.31	2.65	0.06
11.60	1.65	0.51	0.09	14.20	4.32	2.66	0.06
11.65	1.71	0.54	0.10	14.25	4.33	2.67	0.06
11.70	1.76	0.58	0.12	14.30	4.34	2.67	0.06
11.75	1.84	0.63	0.13	14.35	4.35	2.68	0.06
11.80	1.92	0.68	0.15	14.40	4.36	2.69	0.06
11.85	2.02	0.76	0.16	14.45	4.37	2.70	0.05
11.90	2.13	0.84	0.19	14.50	4.38	2.71	0.05
11.95	2.31	0.97	0.22	14.55	4.39	2.72	0.05
12.00	2.49	1.11	0.27	14.60	4.40	2.73	0.05
12.05	2.80	1.35	0.33	14.65	4.41	2.73	0.05
12.10	3.10	1.60	0.43	14.70	4.42	2.74	0.05
12.15	3.21	1.69	0.54	14.75	4.43	2.75	0.05
12.20	3.31	1.78	**0.63**	14.80	4.43	2.76	0.05
12.25	3.39	1.84	**0.65**	14.85	4.44	2.76	0.05
12.30	3.47	1.91	0.63	14.90	4.45	2.77	0.05
12.35	3.52	1.96	0.59	14.95	4.46	2.78	0.04
12.40	3.58	2.00	0.55	15.00	4.47	2.79	0.04
12.45	3.63	2.05	0.51	15.05	4.47	2.79	0.04
12.50	3.68	2.10	0.47	15.10	4.48	2.80	0.04
12.55	3.72	2.13	0.43	15.15	4.49	2.81	0.04
12.60	3.75	2.15	0.40	15.20	4.50	2.81	0.04
12.65	3.78	2.18	0.37	15.25	4.50	2.82	0.04
12.70	3.82	2.21	0.33	15.30	4.51	2.83	0.04
12.75	3.85	2.24	0.30	15.35	4.52	2.83	0.04
12.80	3.88	2.26	0.28	15.40	4.52	2.84	0.04
12.85	3.90	2.28	0.26	15.45	4.53	2.84	0.04
12.90	3.93	2.31	0.24	15.50	4.54	2.85	0.04
12.95	3.95	2.33	0.22	15.55	4.54	2.86	0.04

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	4.55	2.86	0.04	18.20	4.83	3.12	0.02
15.65	4.56	2.87	0.04	18.25	4.84	3.12	0.02
15.70	4.56	2.87	0.03	18.30	4.84	3.12	0.02
15.75	4.57	2.88	0.03	18.35	4.84	3.13	0.02
15.80	4.58	2.89	0.03	18.40	4.85	3.13	0.02
15.85	4.58	2.89	0.03	18.45	4.85	3.14	0.02
15.90	4.59	2.90	0.03	18.50	4.86	3.14	0.02
15.95	4.60	2.90	0.03	18.55	4.86	3.14	0.02
16.00	4.60	2.91	0.03	18.60	4.87	3.15	0.02
16.05	4.61	2.92	0.03	18.65	4.87	3.15	0.02
16.10	4.62	2.92	0.03	18.70	4.87	3.15	0.02
16.15	4.62	2.93	0.03	18.75	4.88	3.16	0.02
16.20	4.63	2.93	0.03	18.80	4.88	3.16	0.02
16.25	4.63	2.94	0.03	18.85	4.89	3.17	0.02
16.30	4.64	2.94	0.03	18.90	4.89	3.17	0.02
16.35	4.65	2.95	0.03	18.95	4.89	3.17	0.02
16.40	4.65	2.95	0.03	19.00	4.90	3.18	0.02
16.45	4.66	2.96	0.03	19.05	4.90	3.18	0.02
16.50	4.66	2.96	0.03	19.10	4.91	3.18	0.02
16.55	4.67	2.97	0.03	19.15	4.91	3.19	0.02
16.60	4.68	2.98	0.03	19.20	4.91	3.19	0.02
16.65	4.68	2.98	0.03	19.25	4.92	3.19	0.02
16.70	4.69	2.99	0.03	19.30	4.92	3.20	0.02
16.75	4.69	2.99	0.03	19.35	4.92	3.20	0.02
16.80	4.70	3.00	0.03	19.40	4.93	3.21	0.02
16.85	4.70	3.00	0.03	19.45	4.93	3.21	0.02
16.90	4.71	3.01	0.03	19.50	4.94	3.21	0.02
16.95	4.71	3.01	0.03	19.55	4.94	3.22	0.02
17.00	4.72	3.02	0.03	19.60	4.94	3.22	0.02
17.05	4.73	3.02	0.03	19.65	4.95	3.22	0.02
17.10	4.73	3.02	0.03	19.70	4.95	3.23	0.02
17.15	4.74	3.03	0.03	19.75	4.96	3.23	0.02
17.20	4.74	3.03	0.03	19.80	4.96	3.23	0.02
17.25	4.75	3.04	0.03	19.85	4.96	3.24	0.02
17.30	4.75	3.04	0.03	19.90	4.97	3.24	0.02
17.35	4.76	3.05	0.03	19.95	4.97	3.24	0.02
17.40	4.76	3.05	0.03	20.00	4.97	3.25	0.02
17.45	4.77	3.06	0.03	20.05	4.98	3.25	0.02
17.50	4.77	3.06	0.03	20.10	4.98	3.25	0.02
17.55	4.78	3.07	0.03	20.15	4.99	3.26	0.02
17.60	4.78	3.07	0.03	20.20	4.99	3.26	0.02
17.65	4.78	3.07	0.02	20.25	4.99	3.26	0.02
17.70	4.79	3.08	0.02	20.30	5.00	3.27	0.02
17.75	4.79	3.08	0.02	20.35	5.00	3.27	0.02
17.80	4.80	3.09	0.02	20.40	5.00	3.27	0.02
17.85	4.80	3.09	0.02	20.45	5.01	3.28	0.02
17.90	4.81	3.09	0.02	20.50	5.01	3.28	0.02
17.95	4.81	3.10	0.02	20.55	5.01	3.28	0.02
18.00	4.82	3.10	0.02	20.60	5.02	3.29	0.02
18.05	4.82	3.11	0.02	20.65	5.02	3.29	0.02
18.10	4.82	3.11	0.02	20.70	5.02	3.29	0.02
18.15	4.83	3.11	0.02	20.75	5.03	3.30	0.02

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.03	3.30	0.02	23.40	5.20	3.45	0.01
20.85	5.04	3.30	0.02	23.45	5.20	3.45	0.01
20.90	5.04	3.31	0.02	23.50	5.20	3.46	0.01
20.95	5.04	3.31	0.02	23.55	5.20	3.46	0.01
21.00	5.05	3.31	0.02	23.60	5.21	3.46	0.01
21.05	5.05	3.32	0.02	23.65	5.21	3.46	0.01
21.10	5.05	3.32	0.02	23.70	5.21	3.47	0.01
21.15	5.06	3.32	0.02	23.75	5.22	3.47	0.01
21.20	5.06	3.32	0.02	23.80	5.22	3.47	0.01
21.25	5.06	3.33	0.02	23.85	5.22	3.47	0.01
21.30	5.07	3.33	0.02	23.90	5.22	3.48	0.01
21.35	5.07	3.33	0.02	23.95	5.23	3.48	0.01
21.40	5.07	3.34	0.02	24.00	**5.23**	**3.48**	0.01
21.45	5.08	3.34	0.02				
21.50	5.08	3.34	0.02				
21.55	5.08	3.35	0.02				
21.60	5.09	3.35	0.02				
21.65	5.09	3.35	0.02				
21.70	5.09	3.36	0.02				
21.75	5.10	3.36	0.02				
21.80	5.10	3.36	0.02				
21.85	5.10	3.36	0.02				
21.90	5.11	3.37	0.02				
21.95	5.11	3.37	0.02				
22.00	5.11	3.37	0.02				
22.05	5.11	3.38	0.02				
22.10	5.12	3.38	0.02				
22.15	5.12	3.38	0.02				
22.20	5.12	3.38	0.02				
22.25	5.13	3.39	0.02				
22.30	5.13	3.39	0.02				
22.35	5.13	3.39	0.02				
22.40	5.14	3.40	0.02				
22.45	5.14	3.40	0.02				
22.50	5.14	3.40	0.02				
22.55	5.15	3.40	0.02				
22.60	5.15	3.41	0.02				
22.65	5.15	3.41	0.02				
22.70	5.16	3.41	0.02				
22.75	5.16	3.42	0.02				
22.80	5.16	3.42	0.02				
22.85	5.16	3.42	0.02				
22.90	5.17	3.42	0.02				
22.95	5.17	3.43	0.02				
23.00	5.17	3.43	0.02				
23.05	5.18	3.43	0.02				
23.10	5.18	3.43	0.01				
23.15	5.18	3.44	0.01				
23.20	5.18	3.44	0.01				
23.25	5.19	3.44	0.01				
23.30	5.19	3.44	0.01				
23.35	5.19	3.45	0.01				

Summary for Subcatchment PDA1B IMP: PDA1B IMP

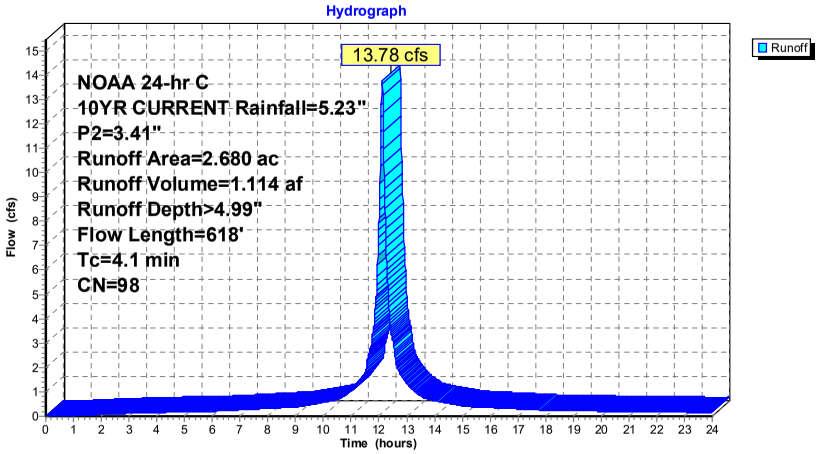
Runoff = 13.78 cfs @ 12.12 hrs, Volume= 1.114 af, Depth> 4.99"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR CURRENT Rainfall=5.23", P2=3.41"

	Area (ac)	CN	Description
	0.100	96	Gravel surface, HSG A
	0.070	96	Gravel surface, HSG D
*	0.190	98	Impervious vehicular
	2.210	98	Roofs, HSG D
*	0.110	98	Impervious non vehicular, HSG D
	2.680	98	Weighted Average
	0.170		6.34% Pervious Area
	2.510		93.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	8	0.0100	0.65		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.1	16	0.0150	1.84		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.9	93	0.0011	1.71	3.02	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
4.1	618	Total			

Subcatchment PDA1B IMP: PDA1B IMP



Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.16	0.04	0.10
0.05	0.00	0.00	0.00	2.65	0.16	0.04	0.11
0.10	0.01	0.00	0.00	2.70	0.16	0.05	0.11
0.15	0.01	0.00	0.00	2.75	0.17	0.05	0.11
0.20	0.01	0.00	0.00	2.80	0.17	0.05	0.11
0.25	0.01	0.00	0.00	2.85	0.17	0.05	0.11
0.30	0.02	0.00	0.00	2.90	0.18	0.05	0.11
0.35	0.02	0.00	0.00	2.95	0.18	0.06	0.12
0.40	0.02	0.00	0.00	3.00	0.18	0.06	0.12
0.45	0.03	0.00	0.00	3.05	0.19	0.06	0.12
0.50	0.03	0.00	0.00	3.10	0.19	0.06	0.12
0.55	0.03	0.00	0.00	3.15	0.19	0.07	0.12
0.60	0.03	0.00	0.00	3.20	0.20	0.07	0.13
0.65	0.04	0.00	0.00	3.25	0.20	0.07	0.13
0.70	0.04	0.00	0.00	3.30	0.21	0.07	0.13
0.75	0.04	0.00	0.00	3.35	0.21	0.08	0.13
0.80	0.05	0.00	0.00	3.40	0.21	0.08	0.13
0.85	0.05	0.00	0.00	3.45	0.22	0.08	0.13
0.90	0.05	0.00	0.01	3.50	0.22	0.08	0.14
0.95	0.05	0.00	0.01	3.55	0.22	0.09	0.14
1.00	0.06	0.00	0.01	3.60	0.23	0.09	0.14
1.05	0.06	0.00	0.02	3.65	0.23	0.09	0.14
1.10	0.06	0.00	0.02	3.70	0.23	0.09	0.14
1.15	0.07	0.00	0.03	3.75	0.24	0.10	0.14
1.20	0.07	0.00	0.03	3.80	0.24	0.10	0.14
1.25	0.07	0.00	0.03	3.85	0.24	0.10	0.15
1.30	0.07	0.00	0.04	3.90	0.25	0.10	0.15
1.35	0.08	0.01	0.04	3.95	0.25	0.11	0.15
1.40	0.08	0.01	0.04	4.00	0.26	0.11	0.15
1.45	0.08	0.01	0.05	4.05	0.26	0.11	0.15
1.50	0.09	0.01	0.05	4.10	0.26	0.12	0.15
1.55	0.09	0.01	0.05	4.15	0.27	0.12	0.15
1.60	0.09	0.01	0.06	4.20	0.27	0.12	0.16
1.65	0.10	0.01	0.06	4.25	0.27	0.12	0.16
1.70	0.10	0.01	0.06	4.30	0.28	0.13	0.16
1.75	0.10	0.01	0.06	4.35	0.28	0.13	0.16
1.80	0.11	0.02	0.07	4.40	0.29	0.13	0.16
1.85	0.11	0.02	0.07	4.45	0.29	0.14	0.16
1.90	0.11	0.02	0.07	4.50	0.29	0.14	0.16
1.95	0.12	0.02	0.07	4.55	0.30	0.14	0.16
2.00	0.12	0.02	0.08	4.60	0.30	0.15	0.17
2.05	0.12	0.02	0.08	4.65	0.31	0.15	0.17
2.10	0.12	0.02	0.08	4.70	0.31	0.15	0.17
2.15	0.13	0.03	0.08	4.75	0.31	0.16	0.17
2.20	0.13	0.03	0.09	4.80	0.32	0.16	0.17
2.25	0.13	0.03	0.09	4.85	0.32	0.16	0.17
2.30	0.14	0.03	0.09	4.90	0.32	0.17	0.17
2.35	0.14	0.03	0.09	4.95	0.33	0.17	0.17
2.40	0.14	0.03	0.09	5.00	0.33	0.17	0.18
2.45	0.15	0.04	0.10	5.05	0.34	0.18	0.18
2.50	0.15	0.04	0.10	5.10	0.34	0.18	0.18
2.55	0.15	0.04	0.10	5.15	0.34	0.18	0.18

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.35	0.19	0.18	7.80	0.60	0.41	0.30
5.25	0.35	0.19	0.18	7.85	0.61	0.42	0.30
5.30	0.36	0.19	0.18	7.90	0.61	0.42	0.31
5.35	0.36	0.20	0.18	7.95	0.62	0.43	0.31
5.40	0.36	0.20	0.18	8.00	0.63	0.43	0.31
5.45	0.37	0.20	0.19	8.05	0.63	0.44	0.32
5.50	0.37	0.21	0.19	8.10	0.64	0.45	0.32
5.55	0.38	0.21	0.19	8.15	0.65	0.45	0.32
5.60	0.38	0.21	0.19	8.20	0.65	0.46	0.33
5.65	0.39	0.22	0.19	8.25	0.66	0.46	0.33
5.70	0.39	0.22	0.19	8.30	0.67	0.47	0.33
5.75	0.39	0.22	0.19	8.35	0.67	0.48	0.33
5.80	0.40	0.23	0.19	8.40	0.68	0.48	0.34
5.85	0.40	0.23	0.19	8.45	0.69	0.49	0.34
5.90	0.41	0.23	0.20	8.50	0.69	0.50	0.34
5.95	0.41	0.24	0.20	8.55	0.70	0.50	0.35
6.00	0.41	0.24	0.20	8.60	0.71	0.51	0.35
6.05	0.42	0.25	0.20	8.65	0.71	0.52	0.35
6.10	0.42	0.25	0.20	8.70	0.72	0.52	0.36
6.15	0.43	0.25	0.20	8.75	0.73	0.53	0.36
6.20	0.43	0.26	0.21	8.80	0.73	0.54	0.36
6.25	0.44	0.26	0.21	8.85	0.74	0.54	0.36
6.30	0.44	0.27	0.21	8.90	0.75	0.55	0.37
6.35	0.45	0.27	0.22	8.95	0.76	0.56	0.37
6.40	0.45	0.27	0.22	9.00	0.76	0.56	0.37
6.45	0.45	0.28	0.22	9.05	0.77	0.57	0.38
6.50	0.46	0.28	0.22	9.10	0.78	0.58	0.39
6.55	0.46	0.29	0.23	9.15	0.79	0.59	0.40
6.60	0.47	0.29	0.23	9.20	0.80	0.59	0.41
6.65	0.47	0.29	0.23	9.25	0.80	0.60	0.42
6.70	0.48	0.30	0.24	9.30	0.81	0.61	0.43
6.75	0.48	0.30	0.24	9.35	0.82	0.62	0.44
6.80	0.49	0.31	0.24	9.40	0.83	0.63	0.45
6.85	0.49	0.31	0.24	9.45	0.84	0.64	0.46
6.90	0.50	0.32	0.25	9.50	0.85	0.65	0.47
6.95	0.50	0.32	0.25	9.55	0.86	0.65	0.48
7.00	0.51	0.33	0.25	9.60	0.87	0.66	0.49
7.05	0.52	0.33	0.26	9.65	0.88	0.67	0.50
7.10	0.52	0.34	0.26	9.70	0.89	0.68	0.51
7.15	0.53	0.34	0.26	9.75	0.90	0.69	0.52
7.20	0.53	0.35	0.27	9.80	0.91	0.70	0.53
7.25	0.54	0.35	0.27	9.85	0.92	0.71	0.54
7.30	0.54	0.36	0.27	9.90	0.93	0.72	0.56
7.35	0.55	0.36	0.27	9.95	0.94	0.74	0.57
7.40	0.55	0.37	0.28	10.00	0.95	0.75	0.58
7.45	0.56	0.37	0.28	10.05	0.97	0.76	0.59
7.50	0.57	0.38	0.28	10.10	0.98	0.77	0.60
7.55	0.57	0.38	0.29	10.15	0.99	0.78	0.61
7.60	0.58	0.39	0.29	10.20	1.00	0.79	0.62
7.65	0.58	0.39	0.29	10.25	1.01	0.80	0.63
7.70	0.59	0.40	0.30	10.30	1.03	0.82	0.64
7.75	0.60	0.41	0.30	10.35	1.04	0.83	0.65

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.05	0.84	0.66	13.00	3.97	3.74	1.35
10.45	1.06	0.85	0.67	13.05	4.00	3.76	1.28
10.50	1.08	0.87	0.68	13.10	4.02	3.78	1.20
10.55	1.09	0.88	0.71	13.15	4.04	3.80	1.14
10.60	1.11	0.90	0.74	13.20	4.05	3.82	1.09
10.65	1.12	0.91	0.77	13.25	4.07	3.84	1.04
10.70	1.14	0.93	0.81	13.30	4.09	3.86	1.00
10.75	1.16	0.94	0.85	13.35	4.11	3.87	0.96
10.80	1.18	0.96	0.89	13.40	4.12	3.89	0.92
10.85	1.19	0.98	0.93	13.45	4.14	3.90	0.88
10.90	1.21	1.00	0.97	13.50	4.15	3.92	0.84
10.95	1.23	1.02	1.01	13.55	4.17	3.93	0.80
11.00	1.26	1.04	1.05	13.60	4.18	3.94	0.76
11.05	1.28	1.06	1.11	13.65	4.19	3.96	0.73
11.10	1.30	1.09	1.17	13.70	4.20	3.97	0.71
11.15	1.33	1.11	1.24	13.75	4.22	3.98	0.70
11.20	1.35	1.14	1.32	13.80	4.23	3.99	0.68
11.25	1.38	1.17	1.39	13.85	4.24	4.01	0.67
11.30	1.41	1.19	1.47	13.90	4.25	4.02	0.66
11.35	1.45	1.23	1.54	13.95	4.26	4.03	0.65
11.40	1.48	1.26	1.62	14.00	4.28	4.04	0.64
11.45	1.51	1.29	1.68	14.05	4.29	4.05	0.63
11.50	1.55	1.32	1.75	14.10	4.30	4.06	0.62
11.55	1.60	1.38	2.00	14.15	4.31	4.07	0.61
11.60	1.65	1.43	2.39	14.20	4.32	4.09	0.60
11.65	1.71	1.48	2.63	14.25	4.33	4.10	0.59
11.70	1.76	1.54	2.80	14.30	4.34	4.11	0.58
11.75	1.84	1.61	3.13	14.35	4.35	4.12	0.57
11.80	1.92	1.69	3.59	14.40	4.36	4.13	0.55
11.85	2.02	1.80	4.18	14.45	4.37	4.14	0.54
11.90	2.13	1.90	4.89	14.50	4.38	4.15	0.53
11.95	2.31	2.08	6.18	14.55	4.39	4.15	0.52
12.00	2.49	2.26	7.91	14.60	4.40	4.16	0.51
12.05	2.80	2.57	10.29	14.65	4.41	4.17	0.50
12.10	3.10	2.87	**13.22**	14.70	4.42	4.18	0.49
12.15	3.21	2.98	**12.44**	14.75	4.43	4.19	0.48
12.20	3.31	3.08	9.32	14.80	4.43	4.20	0.47
12.25	3.39	3.16	7.29	14.85	4.44	4.21	0.46
12.30	3.47	3.23	5.77	14.90	4.45	4.21	0.45
12.35	3.52	3.29	4.68	14.95	4.46	4.22	0.44
12.40	3.58	3.35	3.82	15.00	4.47	4.23	0.43
12.45	3.63	3.40	3.37	15.05	4.47	4.24	0.42
12.50	3.68	3.45	3.09	15.10	4.48	4.24	0.41
12.55	3.72	3.48	2.73	15.15	4.49	4.25	0.40
12.60	3.75	3.52	2.30	15.20	4.50	4.26	0.39
12.65	3.78	3.55	2.05	15.25	4.50	4.27	0.39
12.70	3.82	3.58	1.89	15.30	4.51	4.27	0.39
12.75	3.85	3.61	1.77	15.35	4.52	4.28	0.38
12.80	3.88	3.64	1.67	15.40	4.52	4.29	0.38
12.85	3.90	3.67	1.59	15.45	4.53	4.29	0.38
12.90	3.93	3.69	1.50	15.50	4.54	4.30	0.38
12.95	3.95	3.72	1.43	15.55	4.54	4.31	0.37

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	4.55	4.31	0.37	18.20	4.83	4.60	0.23
15.65	4.56	4.32	0.37	18.25	4.84	4.60	0.23
15.70	4.56	4.33	0.36	18.30	4.84	4.60	0.23
15.75	4.57	4.33	0.36	18.35	4.84	4.61	0.22
15.80	4.58	4.34	0.36	18.40	4.85	4.61	0.22
15.85	4.58	4.35	0.36	18.45	4.85	4.62	0.22
15.90	4.59	4.35	0.35	18.50	4.86	4.62	0.22
15.95	4.60	4.36	0.35	18.55	4.86	4.62	0.22
16.00	4.60	4.37	0.35	18.60	4.87	4.63	0.22
16.05	4.61	4.37	0.35	18.65	4.87	4.63	0.22
16.10	4.62	4.38	0.34	18.70	4.87	4.64	0.22
16.15	4.62	4.39	0.34	18.75	4.88	4.64	0.22
16.20	4.63	4.39	0.34	18.80	4.88	4.64	0.22
16.25	4.63	4.40	0.33	18.85	4.89	4.65	0.22
16.30	4.64	4.40	0.33	18.90	4.89	4.65	0.22
16.35	4.65	4.41	0.33	18.95	4.89	4.66	0.22
16.40	4.65	4.42	0.33	19.00	4.90	4.66	0.22
16.45	4.66	4.42	0.32	19.05	4.90	4.66	0.21
16.50	4.66	4.43	0.32	19.10	4.91	4.67	0.21
16.55	4.67	4.43	0.32	19.15	4.91	4.67	0.21
16.60	4.68	4.44	0.31	19.20	4.91	4.68	0.21
16.65	4.68	4.45	0.31	19.25	4.92	4.68	0.21
16.70	4.69	4.45	0.31	19.30	4.92	4.68	0.21
16.75	4.69	4.46	0.31	19.35	4.92	4.69	0.21
16.80	4.70	4.46	0.30	19.40	4.93	4.69	0.21
16.85	4.70	4.47	0.30	19.45	4.93	4.70	0.21
16.90	4.71	4.47	0.30	19.50	4.94	4.70	0.21
16.95	4.71	4.48	0.29	19.55	4.94	4.70	0.21
17.00	4.72	4.48	0.29	19.60	4.94	4.71	0.21
17.05	4.73	4.49	0.29	19.65	4.95	4.71	0.21
17.10	4.73	4.49	0.29	19.70	4.95	4.71	0.21
17.15	4.74	4.50	0.28	19.75	4.96	4.72	0.20
17.20	4.74	4.50	0.28	19.80	4.96	4.72	0.20
17.25	4.75	4.51	0.28	19.85	4.96	4.73	0.20
17.30	4.75	4.51	0.27	19.90	4.97	4.73	0.20
17.35	4.76	4.52	0.27	19.95	4.97	4.73	0.20
17.40	4.76	4.52	0.27	20.00	4.97	4.74	0.20
17.45	4.77	4.53	0.27	20.05	4.98	4.74	0.20
17.50	4.77	4.53	0.26	20.10	4.98	4.74	0.20
17.55	4.78	4.54	0.26	20.15	4.99	4.75	0.20
17.60	4.78	4.54	0.26	20.20	4.99	4.75	0.20
17.65	4.78	4.55	0.26	20.25	4.99	4.76	0.20
17.70	4.79	4.55	0.25	20.30	5.00	4.76	0.20
17.75	4.79	4.56	0.25	20.35	5.00	4.76	0.20
17.80	4.80	4.56	0.25	20.40	5.00	4.77	0.20
17.85	4.80	4.57	0.24	20.45	5.01	4.77	0.19
17.90	4.81	4.57	0.24	20.50	5.01	4.77	0.19
17.95	4.81	4.57	0.24	20.55	5.01	4.78	0.19
18.00	4.82	4.58	0.24	20.60	5.02	4.78	0.19
18.05	4.82	4.58	0.23	20.65	5.02	4.78	0.19
18.10	4.82	4.59	0.23	20.70	5.02	4.79	0.19
18.15	4.83	4.59	0.23	20.75	5.03	4.79	0.19

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.03	4.79	0.19	23.40	5.20	4.96	0.15
20.85	5.04	4.80	0.19	23.45	5.20	4.96	0.15
20.90	5.04	4.80	0.19	23.50	5.20	4.96	0.15
20.95	5.04	4.81	0.19	23.55	5.20	4.97	0.15
21.00	5.05	4.81	0.19	23.60	5.21	4.97	0.15
21.05	5.05	4.81	0.19	23.65	5.21	4.97	0.15
21.10	5.05	4.82	0.19	23.70	5.21	4.98	0.15
21.15	5.06	4.82	0.18	23.75	5.22	4.98	0.15
21.20	5.06	4.82	0.18	23.80	5.22	4.98	0.15
21.25	5.06	4.83	0.18	23.85	5.22	4.98	0.15
21.30	5.07	4.83	0.18	23.90	5.22	4.99	0.15
21.35	5.07	4.83	0.18	23.95	5.23	4.99	0.15
21.40	5.07	4.84	0.18	24.00	**5.23**	**4.99**	0.17
21.45	5.08	4.84	0.18				
21.50	5.08	4.84	0.18				
21.55	5.08	4.85	0.18				
21.60	5.09	4.85	0.18				
21.65	5.09	4.85	0.18				
21.70	5.09	4.86	0.18				
21.75	5.10	4.86	0.18				
21.80	5.10	4.86	0.18				
21.85	5.10	4.87	0.18				
21.90	5.11	4.87	0.17				
21.95	5.11	4.87	0.17				
22.00	5.11	4.87	0.17				
22.05	5.11	4.88	0.17				
22.10	5.12	4.88	0.17				
22.15	5.12	4.88	0.17				
22.20	5.12	4.89	0.17				
22.25	5.13	4.89	0.17				
22.30	5.13	4.89	0.17				
22.35	5.13	4.90	0.17				
22.40	5.14	4.90	0.17				
22.45	5.14	4.90	0.17				
22.50	5.14	4.91	0.17				
22.55	5.15	4.91	0.17				
22.60	5.15	4.91	0.17				
22.65	5.15	4.91	0.16				
22.70	5.16	4.92	0.16				
22.75	5.16	4.92	0.16				
22.80	5.16	4.92	0.16				
22.85	5.16	4.93	0.16				
22.90	5.17	4.93	0.16				
22.95	5.17	4.93	0.16				
23.00	5.17	4.94	0.16				
23.05	5.18	4.94	0.16				
23.10	5.18	4.94	0.16				
23.15	5.18	4.94	0.16				
23.20	5.18	4.95	0.16				
23.25	5.19	4.95	0.16				
23.30	5.19	4.95	0.15				
23.35	5.19	4.96	0.15				

Summary for Subcatchment PDA1B PERV: PDA-1B PERV

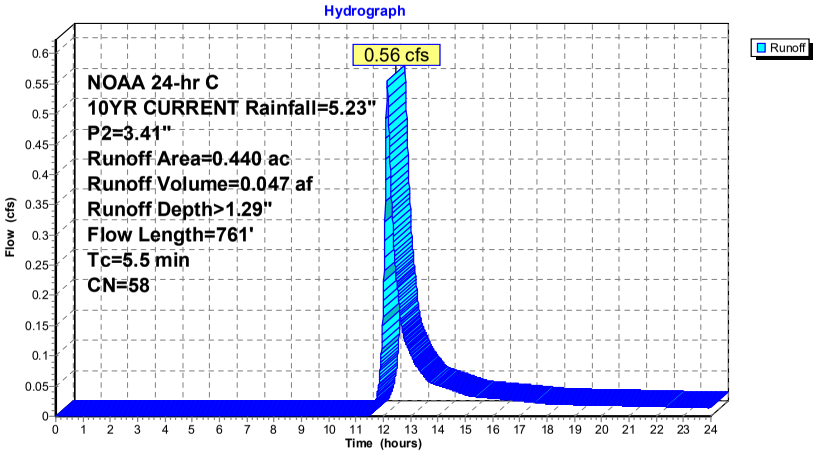
Runoff = 0.56 cfs @ 12.14 hrs, Volume= 0.047 af, Depth> 1.29"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR CURRENT Rainfall=5.23", P2=3.41"

	Area (ac)	CN	Description
	0.250	39	>75% Grass cover, Good, HSG A
*	0.190	84	>75% Grass cover, Good, HSG D
	0.440	58	Weighted Average
	0.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	93	0.0100	1.06		**Sheet Flow, Grass** Smooth surfaces n= 0.011 P2= 3.41"
0.8	74	0.0100	1.50		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.3	93	0.0110	5.40	9.55	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
5.5	761	Total			

Subcatchment PDA1B PERV: PDA-1B PERV



Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.16	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.16	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.16	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.17	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.17	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.17	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.18	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.18	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.18	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.19	0.00	0.00
0.50	0.03	0.00	0.00	3.10	0.19	0.00	0.00
0.55	0.03	0.00	0.00	3.15	0.19	0.00	0.00
0.60	0.03	0.00	0.00	3.20	0.20	0.00	0.00
0.65	0.04	0.00	0.00	3.25	0.20	0.00	0.00
0.70	0.04	0.00	0.00	3.30	0.21	0.00	0.00
0.75	0.04	0.00	0.00	3.35	0.21	0.00	0.00
0.80	0.05	0.00	0.00	3.40	0.21	0.00	0.00
0.85	0.05	0.00	0.00	3.45	0.22	0.00	0.00
0.90	0.05	0.00	0.00	3.50	0.22	0.00	0.00
0.95	0.05	0.00	0.00	3.55	0.22	0.00	0.00
1.00	0.06	0.00	0.00	3.60	0.23	0.00	0.00
1.05	0.06	0.00	0.00	3.65	0.23	0.00	0.00
1.10	0.06	0.00	0.00	3.70	0.23	0.00	0.00
1.15	0.07	0.00	0.00	3.75	0.24	0.00	0.00
1.20	0.07	0.00	0.00	3.80	0.24	0.00	0.00
1.25	0.07	0.00	0.00	3.85	0.24	0.00	0.00
1.30	0.07	0.00	0.00	3.90	0.25	0.00	0.00
1.35	0.08	0.00	0.00	3.95	0.25	0.00	0.00
1.40	0.08	0.00	0.00	4.00	0.26	0.00	0.00
1.45	0.08	0.00	0.00	4.05	0.26	0.00	0.00
1.50	0.09	0.00	0.00	4.10	0.26	0.00	0.00
1.55	0.09	0.00	0.00	4.15	0.27	0.00	0.00
1.60	0.09	0.00	0.00	4.20	0.27	0.00	0.00
1.65	0.10	0.00	0.00	4.25	0.27	0.00	0.00
1.70	0.10	0.00	0.00	4.30	0.28	0.00	0.00
1.75	0.10	0.00	0.00	4.35	0.28	0.00	0.00
1.80	0.11	0.00	0.00	4.40	0.29	0.00	0.00
1.85	0.11	0.00	0.00	4.45	0.29	0.00	0.00
1.90	0.11	0.00	0.00	4.50	0.29	0.00	0.00
1.95	0.12	0.00	0.00	4.55	0.30	0.00	0.00
2.00	0.12	0.00	0.00	4.60	0.30	0.00	0.00
2.05	0.12	0.00	0.00	4.65	0.31	0.00	0.00
2.10	0.12	0.00	0.00	4.70	0.31	0.00	0.00
2.15	0.13	0.00	0.00	4.75	0.31	0.00	0.00
2.20	0.13	0.00	0.00	4.80	0.32	0.00	0.00
2.25	0.13	0.00	0.00	4.85	0.32	0.00	0.00
2.30	0.14	0.00	0.00	4.90	0.32	0.00	0.00
2.35	0.14	0.00	0.00	4.95	0.33	0.00	0.00
2.40	0.14	0.00	0.00	5.00	0.33	0.00	0.00
2.45	0.15	0.00	0.00	5.05	0.34	0.00	0.00
2.50	0.15	0.00	0.00	5.10	0.34	0.00	0.00
2.55	0.15	0.00	0.00	5.15	0.34	0.00	0.00

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.35	0.00	0.00	7.80	0.60	0.00	0.00
5.25	0.35	0.00	0.00	7.85	0.61	0.00	0.00
5.30	0.36	0.00	0.00	7.90	0.61	0.00	0.00
5.35	0.36	0.00	0.00	7.95	0.62	0.00	0.00
5.40	0.36	0.00	0.00	8.00	0.63	0.00	0.00
5.45	0.37	0.00	0.00	8.05	0.63	0.00	0.00
5.50	0.37	0.00	0.00	8.10	0.64	0.00	0.00
5.55	0.38	0.00	0.00	8.15	0.65	0.00	0.00
5.60	0.38	0.00	0.00	8.20	0.65	0.00	0.00
5.65	0.39	0.00	0.00	8.25	0.66	0.00	0.00
5.70	0.39	0.00	0.00	8.30	0.67	0.00	0.00
5.75	0.39	0.00	0.00	8.35	0.67	0.00	0.00
5.80	0.40	0.00	0.00	8.40	0.68	0.00	0.00
5.85	0.40	0.00	0.00	8.45	0.69	0.00	0.00
5.90	0.41	0.00	0.00	8.50	0.69	0.00	0.00
5.95	0.41	0.00	0.00	8.55	0.70	0.00	0.00
6.00	0.41	0.00	0.00	8.60	0.71	0.00	0.00
6.05	0.42	0.00	0.00	8.65	0.71	0.00	0.00
6.10	0.42	0.00	0.00	8.70	0.72	0.00	0.00
6.15	0.43	0.00	0.00	8.75	0.73	0.00	0.00
6.20	0.43	0.00	0.00	8.80	0.73	0.00	0.00
6.25	0.44	0.00	0.00	8.85	0.74	0.00	0.00
6.30	0.44	0.00	0.00	8.90	0.75	0.00	0.00
6.35	0.45	0.00	0.00	8.95	0.76	0.00	0.00
6.40	0.45	0.00	0.00	9.00	0.76	0.00	0.00
6.45	0.45	0.00	0.00	9.05	0.77	0.00	0.00
6.50	0.46	0.00	0.00	9.10	0.78	0.00	0.00
6.55	0.46	0.00	0.00	9.15	0.79	0.00	0.00
6.60	0.47	0.00	0.00	9.20	0.80	0.00	0.00
6.65	0.47	0.00	0.00	9.25	0.80	0.00	0.00
6.70	0.48	0.00	0.00	9.30	0.81	0.00	0.00
6.75	0.48	0.00	0.00	9.35	0.82	0.00	0.00
6.80	0.49	0.00	0.00	9.40	0.83	0.00	0.00
6.85	0.49	0.00	0.00	9.45	0.84	0.00	0.00
6.90	0.50	0.00	0.00	9.50	0.85	0.00	0.00
6.95	0.50	0.00	0.00	9.55	0.86	0.00	0.00
7.00	0.51	0.00	0.00	9.60	0.87	0.00	0.00
7.05	0.52	0.00	0.00	9.65	0.88	0.00	0.00
7.10	0.52	0.00	0.00	9.70	0.89	0.00	0.00
7.15	0.53	0.00	0.00	9.75	0.90	0.00	0.00
7.20	0.53	0.00	0.00	9.80	0.91	0.00	0.00
7.25	0.54	0.00	0.00	9.85	0.92	0.00	0.00
7.30	0.54	0.00	0.00	9.90	0.93	0.00	0.00
7.35	0.55	0.00	0.00	9.95	0.94	0.00	0.00
7.40	0.55	0.00	0.00	10.00	0.95	0.00	0.00
7.45	0.56	0.00	0.00	10.05	0.97	0.00	0.00
7.50	0.57	0.00	0.00	10.10	0.98	0.00	0.00
7.55	0.57	0.00	0.00	10.15	0.99	0.00	0.00
7.60	0.58	0.00	0.00	10.20	1.00	0.00	0.00
7.65	0.58	0.00	0.00	10.25	1.01	0.00	0.00
7.70	0.59	0.00	0.00	10.30	1.03	0.00	0.00
7.75	0.60	0.00	0.00	10.35	1.04	0.00	0.00

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.05	0.00	0.00	13.00	3.97	0.65	0.10
10.45	1.06	0.00	0.00	13.05	4.00	0.66	0.10
10.50	1.08	0.00	0.00	13.10	4.02	0.67	0.09
10.55	1.09	0.00	0.00	13.15	4.04	0.68	0.09
10.60	1.11	0.00	0.00	13.20	4.05	0.69	0.08
10.65	1.12	0.00	0.00	13.25	4.07	0.70	0.08
10.70	1.14	0.00	0.00	13.30	4.09	0.71	0.08
10.75	1.16	0.00	0.00	13.35	4.11	0.71	0.08
10.80	1.18	0.00	0.00	13.40	4.12	0.72	0.07
10.85	1.19	0.00	0.00	13.45	4.14	0.73	0.07
10.90	1.21	0.00	0.00	13.50	4.15	0.74	0.07
10.95	1.23	0.00	0.00	13.55	4.17	0.74	0.06
11.00	1.26	0.00	0.00	13.60	4.18	0.75	0.06
11.05	1.28	0.00	0.00	13.65	4.19	0.75	0.06
11.10	1.30	0.00	0.00	13.70	4.20	0.76	0.06
11.15	1.33	0.00	0.00	13.75	4.22	0.77	0.06
11.20	1.35	0.00	0.00	13.80	4.23	0.77	0.05
11.25	1.38	0.00	0.00	13.85	4.24	0.78	0.05
11.30	1.41	0.00	0.00	13.90	4.25	0.78	0.05
11.35	1.45	0.00	0.00	13.95	4.26	0.79	0.05
11.40	1.48	0.00	0.00	14.00	4.28	0.79	0.05
11.45	1.51	0.00	0.00	14.05	4.29	0.80	0.05
11.50	1.55	0.00	0.00	14.10	4.30	0.81	0.05
11.55	1.60	0.00	0.00	14.15	4.31	0.81	0.05
11.60	1.65	0.01	0.01	14.20	4.32	0.82	0.05
11.65	1.71	0.01	0.01	14.25	4.33	0.82	0.05
11.70	1.76	0.01	0.02	14.30	4.34	0.83	0.05
11.75	1.84	0.02	0.03	14.35	4.35	0.83	0.05
11.80	1.92	0.03	0.04	14.40	4.36	0.84	0.05
11.85	2.02	0.04	0.06	14.45	4.37	0.84	0.04
11.90	2.13	0.06	0.08	14.50	4.38	0.85	0.04
11.95	2.31	0.09	0.12	14.55	4.39	0.85	0.04
12.00	2.49	0.13	0.19	14.60	4.40	0.85	0.04
12.05	2.80	0.21	0.29	14.65	4.41	0.86	0.04
12.10	3.10	0.31	**0.46**	14.70	4.42	0.86	0.04
12.15	3.21	0.34	**0.55**	14.75	4.43	0.87	0.04
12.20	3.31	0.38	0.48	14.80	4.43	0.87	0.04
12.25	3.39	0.41	0.42	14.85	4.44	0.88	0.04
12.30	3.47	0.44	0.36	14.90	4.45	0.88	0.04
12.35	3.52	0.46	0.32	14.95	4.46	0.88	0.04
12.40	3.58	0.48	0.27	15.00	4.47	0.89	0.04
12.45	3.63	0.51	0.24	15.05	4.47	0.89	0.04
12.50	3.68	0.53	0.22	15.10	4.48	0.90	0.03
12.55	3.72	0.54	0.20	15.15	4.49	0.90	0.03
12.60	3.75	0.56	0.17	15.20	4.50	0.90	0.03
12.65	3.78	0.57	0.15	15.25	4.50	0.91	0.03
12.70	3.82	0.58	0.14	15.30	4.51	0.91	0.03
12.75	3.85	0.60	0.13	15.35	4.52	0.91	0.03
12.80	3.88	0.61	0.12	15.40	4.52	0.92	0.03
12.85	3.90	0.62	0.12	15.45	4.53	0.92	0.03
12.90	3.93	0.63	0.11	15.50	4.54	0.92	0.03
12.95	3.95	0.64	0.11	15.55	4.54	0.93	0.03

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	4.55	0.93	0.03	18.20	4.83	1.08	0.02
15.65	4.56	0.93	0.03	18.25	4.84	1.08	0.02
15.70	4.56	0.94	0.03	18.30	4.84	1.08	0.02
15.75	4.57	0.94	0.03	18.35	4.84	1.08	0.02
15.80	4.58	0.94	0.03	18.40	4.85	1.09	0.02
15.85	4.58	0.95	0.03	18.45	4.85	1.09	0.02
15.90	4.59	0.95	0.03	18.50	4.86	1.09	0.02
15.95	4.60	0.95	0.03	18.55	4.86	1.09	0.02
16.00	4.60	0.96	0.03	18.60	4.87	1.10	0.02
16.05	4.61	0.96	0.03	18.65	4.87	1.10	0.02
16.10	4.62	0.96	0.03	18.70	4.87	1.10	0.02
16.15	4.62	0.97	0.03	18.75	4.88	1.10	0.02
16.20	4.63	0.97	0.03	18.80	4.88	1.10	0.02
16.25	4.63	0.97	0.03	18.85	4.89	1.11	0.02
16.30	4.64	0.98	0.03	18.90	4.89	1.11	0.02
16.35	4.65	0.98	0.03	18.95	4.89	1.11	0.02
16.40	4.65	0.98	0.03	19.00	4.90	1.11	0.02
16.45	4.66	0.99	0.03	19.05	4.90	1.11	0.02
16.50	4.66	0.99	0.03	19.10	4.91	1.12	0.02
16.55	4.67	0.99	0.03	19.15	4.91	1.12	0.02
16.60	4.68	1.00	0.03	19.20	4.91	1.12	0.02
16.65	4.68	1.00	0.03	19.25	4.92	1.12	0.02
16.70	4.69	1.00	0.03	19.30	4.92	1.13	0.02
16.75	4.69	1.00	0.03	19.35	4.92	1.13	0.02
16.80	4.70	1.01	0.03	19.40	4.93	1.13	0.02
16.85	4.70	1.01	0.03	19.45	4.93	1.13	0.02
16.90	4.71	1.01	0.03	19.50	4.94	1.13	0.02
16.95	4.71	1.02	0.03	19.55	4.94	1.14	0.02
17.00	4.72	1.02	0.03	19.60	4.94	1.14	0.02
17.05	4.73	1.02	0.03	19.65	4.95	1.14	0.02
17.10	4.73	1.02	0.02	19.70	4.95	1.14	0.02
17.15	4.74	1.03	0.02	19.75	4.96	1.14	0.02
17.20	4.74	1.03	0.02	19.80	4.96	1.15	0.02
17.25	4.75	1.03	0.02	19.85	4.96	1.15	0.02
17.30	4.75	1.03	0.02	19.90	4.97	1.15	0.02
17.35	4.76	1.04	0.02	19.95	4.97	1.15	0.02
17.40	4.76	1.04	0.02	20.00	4.97	1.15	0.02
17.45	4.77	1.04	0.02	20.05	4.98	1.16	0.02
17.50	4.77	1.04	0.02	20.10	4.98	1.16	0.02
17.55	4.78	1.05	0.02	20.15	4.99	1.16	0.02
17.60	4.78	1.05	0.02	20.20	4.99	1.16	0.02
17.65	4.78	1.05	0.02	20.25	4.99	1.16	0.02
17.70	4.79	1.05	0.02	20.30	5.00	1.17	0.02
17.75	4.79	1.06	0.02	20.35	5.00	1.17	0.02
17.80	4.80	1.06	0.02	20.40	5.00	1.17	0.02
17.85	4.80	1.06	0.02	20.45	5.01	1.17	0.02
17.90	4.81	1.06	0.02	20.50	5.01	1.17	0.02
17.95	4.81	1.07	0.02	20.55	5.01	1.18	0.02
18.00	4.82	1.07	0.02	20.60	5.02	1.18	0.02
18.05	4.82	1.07	0.02	20.65	5.02	1.18	0.02
18.10	4.82	1.07	0.02	20.70	5.02	1.18	0.02
18.15	4.83	1.08	0.02	20.75	5.03	1.18	0.02

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.03	1.19	0.02	23.40	5.20	1.28	0.01
20.85	5.04	1.19	0.02	23.45	5.20	1.28	0.01
20.90	5.04	1.19	0.02	23.50	5.20	1.28	0.01
20.95	5.04	1.19	0.02	23.55	5.20	1.28	0.01
21.00	5.05	1.19	0.02	23.60	5.21	1.28	0.01
21.05	5.05	1.20	0.02	23.65	5.21	1.29	0.01
21.10	5.05	1.20	0.02	23.70	5.21	1.29	0.01
21.15	5.06	1.20	0.02	23.75	5.22	1.29	0.01
21.20	5.06	1.20	0.02	23.80	5.22	1.29	0.01
21.25	5.06	1.20	0.02	23.85	5.22	1.29	0.01
21.30	5.07	1.21	0.02	23.90	5.22	1.29	0.01
21.35	5.07	1.21	0.02	23.95	5.23	1.30	0.01
21.40	5.07	1.21	0.02	24.00	**5.23**	**1.30**	0.02
21.45	5.08	1.21	0.02				
21.50	5.08	1.21	0.02				
21.55	5.08	1.21	0.02				
21.60	5.09	1.22	0.02				
21.65	5.09	1.22	0.02				
21.70	5.09	1.22	0.02				
21.75	5.10	1.22	0.02				
21.80	5.10	1.22	0.02				
21.85	5.10	1.23	0.02				
21.90	5.11	1.23	0.02				
21.95	5.11	1.23	0.02				
22.00	5.11	1.23	0.02				
22.05	5.11	1.23	0.02				
22.10	5.12	1.23	0.02				
22.15	5.12	1.24	0.02				
22.20	5.12	1.24	0.02				
22.25	5.13	1.24	0.02				
22.30	5.13	1.24	0.02				
22.35	5.13	1.24	0.02				
22.40	5.14	1.24	0.02				
22.45	5.14	1.25	0.02				
22.50	5.14	1.25	0.02				
22.55	5.15	1.25	0.02				
22.60	5.15	1.25	0.02				
22.65	5.15	1.25	0.02				
22.70	5.16	1.26	0.02				
22.75	5.16	1.26	0.02				
22.80	5.16	1.26	0.02				
22.85	5.16	1.26	0.01				
22.90	5.17	1.26	0.01				
22.95	5.17	1.26	0.01				
23.00	5.17	1.27	0.01				
23.05	5.18	1.27	0.01				
23.10	5.18	1.27	0.01				
23.15	5.18	1.27	0.01				
23.20	5.18	1.27	0.01				
23.25	5.19	1.27	0.01				
23.30	5.19	1.27	0.01				
23.35	5.19	1.28	0.01				

Summary for Subcatchment PDA2 IMP: PDA2 IMP

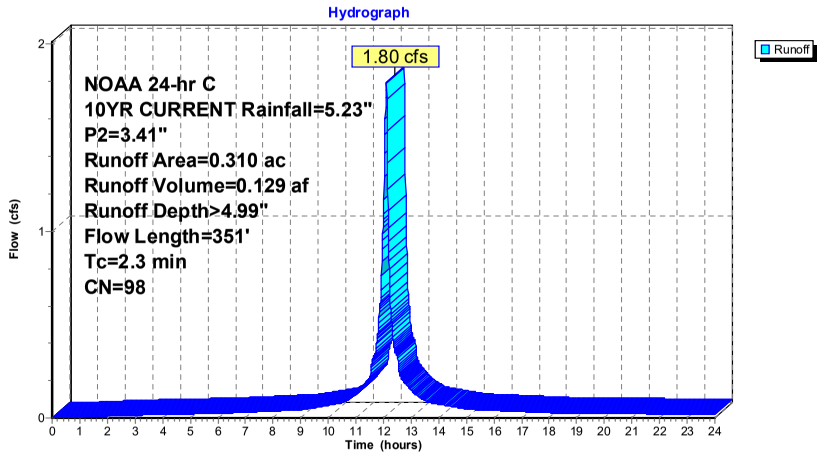
Runoff = 1.80 cfs @ 12.11 hrs, Volume= 0.129 af, Depth> 4.99"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR CURRENT Rainfall=5.23", P2=3.41"

	Area (ac)	CN	Description
*	0.310	98	Impervious vehicular
	0.310		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0180	1.36		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
1.1	251	0.0360	3.85		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
2.3	351	Total			

Subcatchment PDA2 IMP: PDA2 IMP



Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.16	0.04	0.01
0.05	0.00	0.00	0.00	2.65	0.16	0.04	0.01
0.10	0.01	0.00	0.00	2.70	0.16	0.05	0.01
0.15	0.01	0.00	0.00	2.75	0.17	0.05	0.01
0.20	0.01	0.00	0.00	2.80	0.17	0.05	0.01
0.25	0.01	0.00	0.00	2.85	0.17	0.05	0.01
0.30	0.02	0.00	0.00	2.90	0.18	0.05	0.01
0.35	0.02	0.00	0.00	2.95	0.18	0.06	0.01
0.40	0.02	0.00	0.00	3.00	0.18	0.06	0.01
0.45	0.03	0.00	0.00	3.05	0.19	0.06	0.01
0.50	0.03	0.00	0.00	3.10	0.19	0.06	0.01
0.55	0.03	0.00	0.00	3.15	0.19	0.07	0.01
0.60	0.03	0.00	0.00	3.20	0.20	0.07	0.01
0.65	0.04	0.00	0.00	3.25	0.20	0.07	0.01
0.70	0.04	0.00	0.00	3.30	0.21	0.07	0.02
0.75	0.04	0.00	0.00	3.35	0.21	0.08	0.02
0.80	0.05	0.00	0.00	3.40	0.21	0.08	0.02
0.85	0.05	0.00	0.00	3.45	0.22	0.08	0.02
0.90	0.05	0.00	0.00	3.50	0.22	0.08	0.02
0.95	0.05	0.00	0.00	3.55	0.22	0.09	0.02
1.00	0.06	0.00	0.00	3.60	0.23	0.09	0.02
1.05	0.06	0.00	0.00	3.65	0.23	0.09	0.02
1.10	0.06	0.00	0.00	3.70	0.23	0.09	0.02
1.15	0.07	0.00	0.00	3.75	0.24	0.10	0.02
1.20	0.07	0.00	0.00	3.80	0.24	0.10	0.02
1.25	0.07	0.00	0.00	3.85	0.24	0.10	0.02
1.30	0.07	0.00	0.00	3.90	0.25	0.10	0.02
1.35	0.08	0.01	0.00	3.95	0.25	0.11	0.02
1.40	0.08	0.01	0.01	4.00	0.26	0.11	0.02
1.45	0.08	0.01	0.01	4.05	0.26	0.11	0.02
1.50	0.09	0.01	0.01	4.10	0.26	0.12	0.02
1.55	0.09	0.01	0.01	4.15	0.27	0.12	0.02
1.60	0.09	0.01	0.01	4.20	0.27	0.12	0.02
1.65	0.10	0.01	0.01	4.25	0.27	0.12	0.02
1.70	0.10	0.01	0.01	4.30	0.28	0.13	0.02
1.75	0.10	0.01	0.01	4.35	0.28	0.13	0.02
1.80	0.11	0.02	0.01	4.40	0.29	0.13	0.02
1.85	0.11	0.02	0.01	4.45	0.29	0.14	0.02
1.90	0.11	0.02	0.01	4.50	0.29	0.14	0.02
1.95	0.12	0.02	0.01	4.55	0.30	0.14	0.02
2.00	0.12	0.02	0.01	4.60	0.30	0.15	0.02
2.05	0.12	0.02	0.01	4.65	0.31	0.15	0.02
2.10	0.12	0.02	0.01	4.70	0.31	0.15	0.02
2.15	0.13	0.03	0.01	4.75	0.31	0.16	0.02
2.20	0.13	0.03	0.01	4.80	0.32	0.16	0.02
2.25	0.13	0.03	0.01	4.85	0.32	0.16	0.02
2.30	0.14	0.03	0.01	4.90	0.32	0.17	0.02
2.35	0.14	0.03	0.01	4.95	0.33	0.17	0.02
2.40	0.14	0.03	0.01	5.00	0.33	0.17	0.02
2.45	0.15	0.04	0.01	5.05	0.34	0.18	0.02
2.50	0.15	0.04	0.01	5.10	0.34	0.18	0.02
2.55	0.15	0.04	0.01	5.15	0.34	0.18	0.02

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.35	0.19	0.02	7.80	0.60	0.41	0.04
5.25	0.35	0.19	0.02	7.85	0.61	0.42	0.04
5.30	0.36	0.19	0.02	7.90	0.61	0.42	0.04
5.35	0.36	0.20	0.02	7.95	0.62	0.43	0.04
5.40	0.36	0.20	0.02	8.00	0.63	0.43	0.04
5.45	0.37	0.20	0.02	8.05	0.63	0.44	0.04
5.50	0.37	0.21	0.02	8.10	0.64	0.45	0.04
5.55	0.38	0.21	0.02	8.15	0.65	0.45	0.04
5.60	0.38	0.21	0.02	8.20	0.65	0.46	0.04
5.65	0.39	0.22	0.02	8.25	0.66	0.46	0.04
5.70	0.39	0.22	0.02	8.30	0.67	0.47	0.04
5.75	0.39	0.22	0.02	8.35	0.67	0.48	0.04
5.80	0.40	0.23	0.02	8.40	0.68	0.48	0.04
5.85	0.40	0.23	0.02	8.45	0.69	0.49	0.04
5.90	0.41	0.23	0.02	8.50	0.69	0.50	0.04
5.95	0.41	0.24	0.02	8.55	0.70	0.50	0.04
6.00	0.41	0.24	0.02	8.60	0.71	0.51	0.04
6.05	0.42	0.25	0.02	8.65	0.71	0.52	0.04
6.10	0.42	0.25	0.02	8.70	0.72	0.52	0.04
6.15	0.43	0.25	0.02	8.75	0.73	0.53	0.04
6.20	0.43	0.26	0.02	8.80	0.73	0.54	0.04
6.25	0.44	0.26	0.02	8.85	0.74	0.54	0.04
6.30	0.44	0.27	0.02	8.90	0.75	0.55	0.04
6.35	0.45	0.27	0.03	8.95	0.76	0.56	0.04
6.40	0.45	0.27	0.03	9.00	0.76	0.56	0.04
6.45	0.45	0.28	0.03	9.05	0.77	0.57	0.04
6.50	0.46	0.28	0.03	9.10	0.78	0.58	0.05
6.55	0.46	0.29	0.03	9.15	0.79	0.59	0.05
6.60	0.47	0.29	0.03	9.20	0.80	0.59	0.05
6.65	0.47	0.29	0.03	9.25	0.80	0.60	0.05
6.70	0.48	0.30	0.03	9.30	0.81	0.61	0.05
6.75	0.48	0.30	0.03	9.35	0.82	0.62	0.05
6.80	0.49	0.31	0.03	9.40	0.83	0.63	0.05
6.85	0.49	0.31	0.03	9.45	0.84	0.64	0.05
6.90	0.50	0.32	0.03	9.50	0.85	0.65	0.06
6.95	0.50	0.32	0.03	9.55	0.86	0.65	0.06
7.00	0.51	0.33	0.03	9.60	0.87	0.66	0.06
7.05	0.52	0.33	0.03	9.65	0.88	0.67	0.06
7.10	0.52	0.34	0.03	9.70	0.89	0.68	0.06
7.15	0.53	0.34	0.03	9.75	0.90	0.69	0.06
7.20	0.53	0.35	0.03	9.80	0.91	0.70	0.06
7.25	0.54	0.35	0.03	9.85	0.92	0.71	0.06
7.30	0.54	0.36	0.03	9.90	0.93	0.72	0.07
7.35	0.55	0.36	0.03	9.95	0.94	0.74	0.07
7.40	0.55	0.37	0.03	10.00	0.95	0.75	0.07
7.45	0.56	0.37	0.03	10.05	0.97	0.76	0.07
7.50	0.57	0.38	0.03	10.10	0.98	0.77	0.07
7.55	0.57	0.38	0.03	10.15	0.99	0.78	0.07
7.60	0.58	0.39	0.03	10.20	1.00	0.79	0.07
7.65	0.58	0.39	0.03	10.25	1.01	0.80	0.07
7.70	0.59	0.40	0.03	10.30	1.03	0.82	0.07
7.75	0.60	0.41	0.03	10.35	1.04	0.83	0.08

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.05	0.84	0.08	13.00	3.97	3.74	0.15
10.45	1.06	0.85	0.08	13.05	4.00	3.76	0.14
10.50	1.08	0.87	0.08	13.10	4.02	3.78	0.13
10.55	1.09	0.88	0.09	13.15	4.04	3.80	0.12
10.60	1.11	0.90	0.09	13.20	4.05	3.82	0.12
10.65	1.12	0.91	0.09	13.25	4.07	3.84	0.12
10.70	1.14	0.93	0.10	13.30	4.09	3.86	0.11
10.75	1.16	0.94	0.10	13.35	4.11	3.87	0.11
10.80	1.18	0.96	0.11	13.40	4.12	3.89	0.10
10.85	1.19	0.98	0.11	13.45	4.14	3.90	0.10
10.90	1.21	1.00	0.12	13.50	4.15	3.92	0.09
10.95	1.23	1.02	0.12	13.55	4.17	3.93	0.09
11.00	1.26	1.04	0.13	13.60	4.18	3.94	0.08
11.05	1.28	1.06	0.14	13.65	4.19	3.96	0.08
11.10	1.30	1.09	0.14	13.70	4.20	3.97	0.08
11.15	1.33	1.11	0.15	13.75	4.22	3.98	0.08
11.20	1.35	1.14	0.16	13.80	4.23	3.99	0.08
11.25	1.38	1.17	0.17	13.85	4.24	4.01	0.08
11.30	1.41	1.19	0.18	13.90	4.25	4.02	0.08
11.35	1.45	1.23	0.19	13.95	4.26	4.03	0.07
11.40	1.48	1.26	0.19	14.00	4.28	4.04	0.07
11.45	1.51	1.29	0.20	14.05	4.29	4.05	0.07
11.50	1.55	1.32	0.21	14.10	4.30	4.06	0.07
11.55	1.60	1.38	0.27	14.15	4.31	4.07	0.07
11.60	1.65	1.43	0.31	14.20	4.32	4.09	0.07
11.65	1.71	1.48	0.33	14.25	4.33	4.10	0.07
11.70	1.76	1.54	0.34	14.30	4.34	4.11	0.07
11.75	1.84	1.61	0.41	14.35	4.35	4.12	0.06
11.80	1.92	1.69	0.45	14.40	4.36	4.13	0.06
11.85	2.02	1.80	0.56	14.45	4.37	4.14	0.06
11.90	2.13	1.90	0.63	14.50	4.38	4.15	0.06
11.95	2.31	2.08	0.90	14.55	4.39	4.15	0.06
12.00	2.49	2.26	1.06	14.60	4.40	4.16	0.06
12.05	2.80	2.57	1.52	14.65	4.41	4.17	0.06
12.10	3.10	2.87	**1.78**	14.70	4.42	4.18	0.06
12.15	3.21	2.98	**1.22**	14.75	4.43	4.19	0.05
12.20	3.31	3.08	0.84	14.80	4.43	4.20	0.05
12.25	3.39	3.16	0.61	14.85	4.44	4.21	0.05
12.30	3.47	3.23	0.51	14.90	4.45	4.21	0.05
12.35	3.52	3.29	0.41	14.95	4.46	4.22	0.05
12.40	3.58	3.35	0.37	15.00	4.47	4.23	0.05
12.45	3.63	3.40	0.34	15.05	4.47	4.24	0.05
12.50	3.68	3.45	0.33	15.10	4.48	4.24	0.05
12.55	3.72	3.48	0.27	15.15	4.49	4.25	0.05
12.60	3.75	3.52	0.23	15.20	4.50	4.26	0.05
12.65	3.78	3.55	0.21	15.25	4.50	4.27	0.04
12.70	3.82	3.58	0.20	15.30	4.51	4.27	0.04
12.75	3.85	3.61	0.19	15.35	4.52	4.28	0.04
12.80	3.88	3.64	0.18	15.40	4.52	4.29	0.04
12.85	3.90	3.67	0.17	15.45	4.53	4.29	0.04
12.90	3.93	3.69	0.17	15.50	4.54	4.30	0.04
12.95	3.95	3.72	0.16	15.55	4.54	4.31	0.04

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	4.55	4.31	0.04	18.20	4.83	4.60	0.03
15.65	4.56	4.32	0.04	18.25	4.84	4.60	0.03
15.70	4.56	4.33	0.04	18.30	4.84	4.60	0.03
15.75	4.57	4.33	0.04	18.35	4.84	4.61	0.03
15.80	4.58	4.34	0.04	18.40	4.85	4.61	0.03
15.85	4.58	4.35	0.04	18.45	4.85	4.62	0.03
15.90	4.59	4.35	0.04	18.50	4.86	4.62	0.03
15.95	4.60	4.36	0.04	18.55	4.86	4.62	0.03
16.00	4.60	4.37	0.04	18.60	4.87	4.63	0.03
16.05	4.61	4.37	0.04	18.65	4.87	4.63	0.03
16.10	4.62	4.38	0.04	18.70	4.87	4.64	0.03
16.15	4.62	4.39	0.04	18.75	4.88	4.64	0.03
16.20	4.63	4.39	0.04	18.80	4.88	4.64	0.03
16.25	4.63	4.40	0.04	18.85	4.89	4.65	0.03
16.30	4.64	4.40	0.04	18.90	4.89	4.65	0.02
16.35	4.65	4.41	0.04	18.95	4.89	4.66	0.02
16.40	4.65	4.42	0.04	19.00	4.90	4.66	0.02
16.45	4.66	4.42	0.04	19.05	4.90	4.66	0.02
16.50	4.66	4.43	0.04	19.10	4.91	4.67	0.02
16.55	4.67	4.43	0.04	19.15	4.91	4.67	0.02
16.60	4.68	4.44	0.04	19.20	4.91	4.68	0.02
16.65	4.68	4.45	0.04	19.25	4.92	4.68	0.02
16.70	4.69	4.45	0.04	19.30	4.92	4.68	0.02
16.75	4.69	4.46	0.04	19.35	4.92	4.69	0.02
16.80	4.70	4.46	0.03	19.40	4.93	4.69	0.02
16.85	4.70	4.47	0.03	19.45	4.93	4.70	0.02
16.90	4.71	4.47	0.03	19.50	4.94	4.70	0.02
16.95	4.71	4.48	0.03	19.55	4.94	4.70	0.02
17.00	4.72	4.48	0.03	19.60	4.94	4.71	0.02
17.05	4.73	4.49	0.03	19.65	4.95	4.71	0.02
17.10	4.73	4.49	0.03	19.70	4.95	4.71	0.02
17.15	4.74	4.50	0.03	19.75	4.96	4.72	0.02
17.20	4.74	4.50	0.03	19.80	4.96	4.72	0.02
17.25	4.75	4.51	0.03	19.85	4.96	4.73	0.02
17.30	4.75	4.51	0.03	19.90	4.97	4.73	0.02
17.35	4.76	4.52	0.03	19.95	4.97	4.73	0.02
17.40	4.76	4.52	0.03	20.00	4.97	4.74	0.02
17.45	4.77	4.53	0.03	20.05	4.98	4.74	0.02
17.50	4.77	4.53	0.03	20.10	4.98	4.74	0.02
17.55	4.78	4.54	0.03	20.15	4.99	4.75	0.02
17.60	4.78	4.54	0.03	20.20	4.99	4.75	0.02
17.65	4.78	4.55	0.03	20.25	4.99	4.76	0.02
17.70	4.79	4.55	0.03	20.30	5.00	4.76	0.02
17.75	4.79	4.56	0.03	20.35	5.00	4.76	0.02
17.80	4.80	4.56	0.03	20.40	5.00	4.77	0.02
17.85	4.80	4.57	0.03	20.45	5.01	4.77	0.02
17.90	4.81	4.57	0.03	20.50	5.01	4.77	0.02
17.95	4.81	4.57	0.03	20.55	5.01	4.78	0.02
18.00	4.82	4.58	0.03	20.60	5.02	4.78	0.02
18.05	4.82	4.58	0.03	20.65	5.02	4.78	0.02
18.10	4.82	4.59	0.03	20.70	5.02	4.79	0.02
18.15	4.83	4.59	0.03	20.75	5.03	4.79	0.02

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.03	4.79	0.02	23.40	5.20	4.96	0.02
20.85	5.04	4.80	0.02	23.45	5.20	4.96	0.02
20.90	5.04	4.80	0.02	23.50	5.20	4.96	0.02
20.95	5.04	4.81	0.02	23.55	5.20	4.97	0.02
21.00	5.05	4.81	0.02	23.60	5.21	4.97	0.02
21.05	5.05	4.81	0.02	23.65	5.21	4.97	0.02
21.10	5.05	4.82	0.02	23.70	5.21	4.98	0.02
21.15	5.06	4.82	0.02	23.75	5.22	4.98	0.02
21.20	5.06	4.82	0.02	23.80	5.22	4.98	0.02
21.25	5.06	4.83	0.02	23.85	5.22	4.98	0.02
21.30	5.07	4.83	0.02	23.90	5.22	4.99	0.02
21.35	5.07	4.83	0.02	23.95	5.23	4.99	0.02
21.40	5.07	4.84	0.02	24.00	**5.23**	**4.99**	0.02
21.45	5.08	4.84	0.02				
21.50	5.08	4.84	0.02				
21.55	5.08	4.85	0.02				
21.60	5.09	4.85	0.02				
21.65	5.09	4.85	0.02				
21.70	5.09	4.86	0.02				
21.75	5.10	4.86	0.02				
21.80	5.10	4.86	0.02				
21.85	5.10	4.87	0.02				
21.90	5.11	4.87	0.02				
21.95	5.11	4.87	0.02				
22.00	5.11	4.87	0.02				
22.05	5.11	4.88	0.02				
22.10	5.12	4.88	0.02				
22.15	5.12	4.88	0.02				
22.20	5.12	4.89	0.02				
22.25	5.13	4.89	0.02				
22.30	5.13	4.89	0.02				
22.35	5.13	4.90	0.02				
22.40	5.14	4.90	0.02				
22.45	5.14	4.90	0.02				
22.50	5.14	4.91	0.02				
22.55	5.15	4.91	0.02				
22.60	5.15	4.91	0.02				
22.65	5.15	4.91	0.02				
22.70	5.16	4.92	0.02				
22.75	5.16	4.92	0.02				
22.80	5.16	4.92	0.02				
22.85	5.16	4.93	0.02				
22.90	5.17	4.93	0.02				
22.95	5.17	4.93	0.02				
23.00	5.17	4.94	0.02				
23.05	5.18	4.94	0.02				
23.10	5.18	4.94	0.02				
23.15	5.18	4.94	0.02				
23.20	5.18	4.95	0.02				
23.25	5.19	4.95	0.02				
23.30	5.19	4.95	0.02				
23.35	5.19	4.96	0.02				

Summary for Subcatchment PDA3 IMP: PDA3 IMP

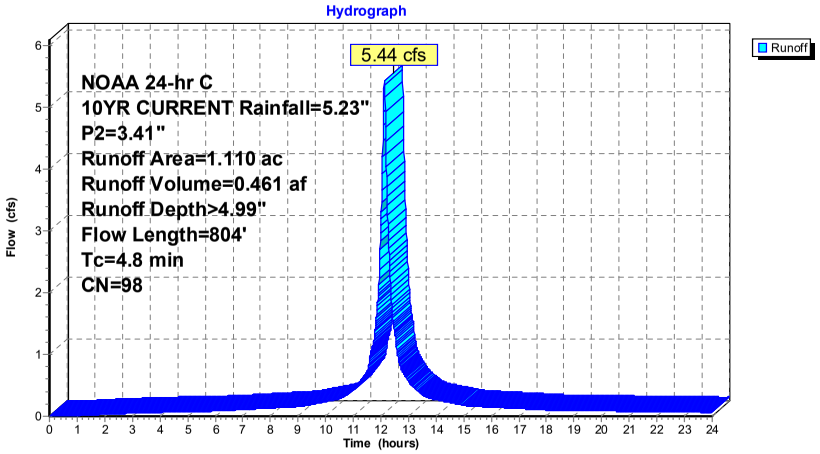
Runoff = 5.44 cfs @ 12.13 hrs, Volume= 0.461 af, Depth> 4.99"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR CURRENT Rainfall=5.23", P2=3.41"

	Area (ac)	CN	Description
*	0.990	98	Impervious vehicular
*	0.120	98	Impervious non vehicular
	1.110	98	Weighted Average
	1.110		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0071	0.94		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.7	172	0.0039	3.90	12.24	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
0.1	27	0.0120	6.84	21.48	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
1.6	439	0.0015	4.45	87.42	**Pipe Channel, RCP_Round 60"** 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.015
4.8	804	Total			

Subcatchment PDA3 IMP: PDA3 IMP



Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.16	0.04	0.04
0.05	0.00	0.00	0.00	2.65	0.16	0.04	0.04
0.10	0.01	0.00	0.00	2.70	0.16	0.05	0.04
0.15	0.01	0.00	0.00	2.75	0.17	0.05	0.04
0.20	0.01	0.00	0.00	2.80	0.17	0.05	0.05
0.25	0.01	0.00	0.00	2.85	0.17	0.05	0.05
0.30	0.02	0.00	0.00	2.90	0.18	0.05	0.05
0.35	0.02	0.00	0.00	2.95	0.18	0.06	0.05
0.40	0.02	0.00	0.00	3.00	0.18	0.06	0.05
0.45	0.03	0.00	0.00	3.05	0.19	0.06	0.05
0.50	0.03	0.00	0.00	3.10	0.19	0.06	0.05
0.55	0.03	0.00	0.00	3.15	0.19	0.07	0.05
0.60	0.03	0.00	0.00	3.20	0.20	0.07	0.05
0.65	0.04	0.00	0.00	3.25	0.20	0.07	0.05
0.70	0.04	0.00	0.00	3.30	0.21	0.07	0.05
0.75	0.04	0.00	0.00	3.35	0.21	0.08	0.05
0.80	0.05	0.00	0.00	3.40	0.21	0.08	0.05
0.85	0.05	0.00	0.00	3.45	0.22	0.08	0.06
0.90	0.05	0.00	0.00	3.50	0.22	0.08	0.06
0.95	0.05	0.00	0.00	3.55	0.22	0.09	0.06
1.00	0.06	0.00	0.01	3.60	0.23	0.09	0.06
1.05	0.06	0.00	0.01	3.65	0.23	0.09	0.06
1.10	0.06	0.00	0.01	3.70	0.23	0.09	0.06
1.15	0.07	0.00	0.01	3.75	0.24	0.10	0.06
1.20	0.07	0.00	0.01	3.80	0.24	0.10	0.06
1.25	0.07	0.00	0.01	3.85	0.24	0.10	0.06
1.30	0.07	0.00	0.01	3.90	0.25	0.10	0.06
1.35	0.08	0.01	0.02	3.95	0.25	0.11	0.06
1.40	0.08	0.01	0.02	4.00	0.26	0.11	0.06
1.45	0.08	0.01	0.02	4.05	0.26	0.11	0.06
1.50	0.09	0.01	0.02	4.10	0.26	0.12	0.06
1.55	0.09	0.01	0.02	4.15	0.27	0.12	0.06
1.60	0.09	0.01	0.02	4.20	0.27	0.12	0.06
1.65	0.10	0.01	0.02	4.25	0.27	0.12	0.06
1.70	0.10	0.01	0.02	4.30	0.28	0.13	0.07
1.75	0.10	0.01	0.03	4.35	0.28	0.13	0.07
1.80	0.11	0.02	0.03	4.40	0.29	0.13	0.07
1.85	0.11	0.02	0.03	4.45	0.29	0.14	0.07
1.90	0.11	0.02	0.03	4.50	0.29	0.14	0.07
1.95	0.12	0.02	0.03	4.55	0.30	0.14	0.07
2.00	0.12	0.02	0.03	4.60	0.30	0.15	0.07
2.05	0.12	0.02	0.03	4.65	0.31	0.15	0.07
2.10	0.12	0.02	0.03	4.70	0.31	0.15	0.07
2.15	0.13	0.03	0.03	4.75	0.31	0.16	0.07
2.20	0.13	0.03	0.04	4.80	0.32	0.16	0.07
2.25	0.13	0.03	0.04	4.85	0.32	0.16	0.07
2.30	0.14	0.03	0.04	4.90	0.32	0.17	0.07
2.35	0.14	0.03	0.04	4.95	0.33	0.17	0.07
2.40	0.14	0.03	0.04	5.00	0.33	0.17	0.07
2.45	0.15	0.04	0.04	5.05	0.34	0.18	0.07
2.50	0.15	0.04	0.04	5.10	0.34	0.18	0.07
2.55	0.15	0.04	0.04	5.15	0.34	0.18	0.07

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.35	0.19	0.07	7.80	0.60	0.41	0.12
5.25	0.35	0.19	0.07	7.85	0.61	0.42	0.13
5.30	0.36	0.19	0.08	7.90	0.61	0.42	0.13
5.35	0.36	0.20	0.08	7.95	0.62	0.43	0.13
5.40	0.36	0.20	0.08	8.00	0.63	0.43	0.13
5.45	0.37	0.20	0.08	8.05	0.63	0.44	0.13
5.50	0.37	0.21	0.08	8.10	0.64	0.45	0.13
5.55	0.38	0.21	0.08	8.15	0.65	0.45	0.13
5.60	0.38	0.21	0.08	8.20	0.65	0.46	0.13
5.65	0.39	0.22	0.08	8.25	0.66	0.46	0.14
5.70	0.39	0.22	0.08	8.30	0.67	0.47	0.14
5.75	0.39	0.22	0.08	8.35	0.67	0.48	0.14
5.80	0.40	0.23	0.08	8.40	0.68	0.48	0.14
5.85	0.40	0.23	0.08	8.45	0.69	0.49	0.14
5.90	0.41	0.23	0.08	8.50	0.69	0.50	0.14
5.95	0.41	0.24	0.08	8.55	0.70	0.50	0.14
6.00	0.41	0.24	0.08	8.60	0.71	0.51	0.14
6.05	0.42	0.25	0.08	8.65	0.71	0.52	0.15
6.10	0.42	0.25	0.08	8.70	0.72	0.52	0.15
6.15	0.43	0.25	0.08	8.75	0.73	0.53	0.15
6.20	0.43	0.26	0.09	8.80	0.73	0.54	0.15
6.25	0.44	0.26	0.09	8.85	0.74	0.54	0.15
6.30	0.44	0.27	0.09	8.90	0.75	0.55	0.15
6.35	0.45	0.27	0.09	8.95	0.76	0.56	0.15
6.40	0.45	0.27	0.09	9.00	0.76	0.56	0.15
6.45	0.45	0.28	0.09	9.05	0.77	0.57	0.16
6.50	0.46	0.28	0.09	9.10	0.78	0.58	0.16
6.55	0.46	0.29	0.09	9.15	0.79	0.59	0.16
6.60	0.47	0.29	0.10	9.20	0.80	0.59	0.17
6.65	0.47	0.29	0.10	9.25	0.80	0.60	0.17
6.70	0.48	0.30	0.10	9.30	0.81	0.61	0.18
6.75	0.48	0.30	0.10	9.35	0.82	0.62	0.18
6.80	0.49	0.31	0.10	9.40	0.83	0.63	0.18
6.85	0.49	0.31	0.10	9.45	0.84	0.64	0.19
6.90	0.50	0.32	0.10	9.50	0.85	0.65	0.19
6.95	0.50	0.32	0.10	9.55	0.86	0.65	0.20
7.00	0.51	0.33	0.10	9.60	0.87	0.66	0.20
7.05	0.52	0.33	0.11	9.65	0.88	0.67	0.21
7.10	0.52	0.34	0.11	9.70	0.89	0.68	0.21
7.15	0.53	0.34	0.11	9.75	0.90	0.69	0.21
7.20	0.53	0.35	0.11	9.80	0.91	0.70	0.22
7.25	0.54	0.35	0.11	9.85	0.92	0.71	0.22
7.30	0.54	0.36	0.11	9.90	0.93	0.72	0.23
7.35	0.55	0.36	0.11	9.95	0.94	0.74	0.23
7.40	0.55	0.37	0.11	10.00	0.95	0.75	0.24
7.45	0.56	0.37	0.12	10.05	0.97	0.76	0.24
7.50	0.57	0.38	0.12	10.10	0.98	0.77	0.25
7.55	0.57	0.38	0.12	10.15	0.99	0.78	0.25
7.60	0.58	0.39	0.12	10.20	1.00	0.79	0.25
7.65	0.58	0.39	0.12	10.25	1.01	0.80	0.26
7.70	0.59	0.40	0.12	10.30	1.03	0.82	0.26
7.75	0.60	0.41	0.12	10.35	1.04	0.83	0.27

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.05	0.84	0.27	13.00	3.97	3.74	0.57
10.45	1.06	0.85	0.28	13.05	4.00	3.76	0.54
10.50	1.08	0.87	0.28	13.10	4.02	3.78	0.51
10.55	1.09	0.88	0.29	13.15	4.04	3.80	0.48
10.60	1.11	0.90	0.30	13.20	4.05	3.82	0.46
10.65	1.12	0.91	0.32	13.25	4.07	3.84	0.44
10.70	1.14	0.93	0.33	13.30	4.09	3.86	0.42
10.75	1.16	0.94	0.35	13.35	4.11	3.87	0.40
10.80	1.18	0.96	0.36	13.40	4.12	3.89	0.39
10.85	1.19	0.98	0.38	13.45	4.14	3.90	0.37
10.90	1.21	1.00	0.40	13.50	4.15	3.92	0.35
10.95	1.23	1.02	0.41	13.55	4.17	3.93	0.34
11.00	1.26	1.04	0.43	13.60	4.18	3.94	0.32
11.05	1.28	1.06	0.45	13.65	4.19	3.96	0.31
11.10	1.30	1.09	0.48	13.70	4.20	3.97	0.30
11.15	1.33	1.11	0.50	13.75	4.22	3.98	0.29
11.20	1.35	1.14	0.54	13.80	4.23	3.99	0.29
11.25	1.38	1.17	0.56	13.85	4.24	4.01	0.28
11.30	1.41	1.19	0.60	13.90	4.25	4.02	0.28
11.35	1.45	1.23	0.63	13.95	4.26	4.03	0.27
11.40	1.48	1.26	0.66	14.00	4.28	4.04	0.27
11.45	1.51	1.29	0.69	14.05	4.29	4.05	0.26
11.50	1.55	1.32	0.71	14.10	4.30	4.06	0.26
11.55	1.60	1.38	0.80	14.15	4.31	4.07	0.25
11.60	1.65	1.43	0.95	14.20	4.32	4.09	0.25
11.65	1.71	1.48	1.05	14.25	4.33	4.10	0.24
11.70	1.76	1.54	1.13	14.30	4.34	4.11	0.24
11.75	1.84	1.61	1.25	14.35	4.35	4.12	0.24
11.80	1.92	1.69	1.43	14.40	4.36	4.13	0.23
11.85	2.02	1.80	1.65	14.45	4.37	4.14	0.23
11.90	2.13	1.90	1.94	14.50	4.38	4.15	0.22
11.95	2.31	2.08	2.38	14.55	4.39	4.15	0.22
12.00	2.49	2.26	3.08	14.60	4.40	4.16	0.21
12.05	2.80	2.57	3.92	14.65	4.41	4.17	0.21
12.10	3.10	2.87	**5.13**	14.70	4.42	4.18	0.20
12.15	3.21	2.98	**5.17**	14.75	4.43	4.19	0.20
12.20	3.31	3.08	4.05	14.80	4.43	4.20	0.20
12.25	3.39	3.16	3.25	14.85	4.44	4.21	0.19
12.30	3.47	3.23	2.61	14.90	4.45	4.21	0.19
12.35	3.52	3.29	2.15	14.95	4.46	4.22	0.18
12.40	3.58	3.35	1.75	15.00	4.47	4.23	0.18
12.45	3.63	3.40	1.50	15.05	4.47	4.24	0.17
12.50	3.68	3.45	1.35	15.10	4.48	4.24	0.17
12.55	3.72	3.48	1.21	15.15	4.49	4.25	0.17
12.60	3.75	3.52	1.01	15.20	4.50	4.26	0.16
12.65	3.78	3.55	0.89	15.25	4.50	4.27	0.16
12.70	3.82	3.58	0.81	15.30	4.51	4.27	0.16
12.75	3.85	3.61	0.76	15.35	4.52	4.28	0.16
12.80	3.88	3.64	0.71	15.40	4.52	4.29	0.16
12.85	3.90	3.67	0.67	15.45	4.53	4.29	0.16
12.90	3.93	3.69	0.64	15.50	4.54	4.30	0.16
12.95	3.95	3.72	0.60	15.55	4.54	4.31	0.16

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	4.55	4.31	0.15	18.20	4.83	4.60	0.09
15.65	4.56	4.32	0.15	18.25	4.84	4.60	0.09
15.70	4.56	4.33	0.15	18.30	4.84	4.60	0.09
15.75	4.57	4.33	0.15	18.35	4.84	4.61	0.09
15.80	4.58	4.34	0.15	18.40	4.85	4.61	0.09
15.85	4.58	4.35	0.15	18.45	4.85	4.62	0.09
15.90	4.59	4.35	0.15	18.50	4.86	4.62	0.09
15.95	4.60	4.36	0.15	18.55	4.86	4.62	0.09
16.00	4.60	4.37	0.14	18.60	4.87	4.63	0.09
16.05	4.61	4.37	0.14	18.65	4.87	4.63	0.09
16.10	4.62	4.38	0.14	18.70	4.87	4.64	0.09
16.15	4.62	4.39	0.14	18.75	4.88	4.64	0.09
16.20	4.63	4.39	0.14	18.80	4.88	4.64	0.09
16.25	4.63	4.40	0.14	18.85	4.89	4.65	0.09
16.30	4.64	4.40	0.14	18.90	4.89	4.65	0.09
16.35	4.65	4.41	0.14	18.95	4.89	4.66	0.09
16.40	4.65	4.42	0.14	19.00	4.90	4.66	0.09
16.45	4.66	4.42	0.13	19.05	4.90	4.66	0.09
16.50	4.66	4.43	0.13	19.10	4.91	4.67	0.09
16.55	4.67	4.43	0.13	19.15	4.91	4.67	0.09
16.60	4.68	4.44	0.13	19.20	4.91	4.68	0.09
16.65	4.68	4.45	0.13	19.25	4.92	4.68	0.09
16.70	4.69	4.45	0.13	19.30	4.92	4.68	0.09
16.75	4.69	4.46	0.13	19.35	4.92	4.69	0.09
16.80	4.70	4.46	0.13	19.40	4.93	4.69	0.09
16.85	4.70	4.47	0.12	19.45	4.93	4.70	0.09
16.90	4.71	4.47	0.12	19.50	4.94	4.70	0.09
16.95	4.71	4.48	0.12	19.55	4.94	4.70	0.09
17.00	4.72	4.48	0.12	19.60	4.94	4.71	0.09
17.05	4.73	4.49	0.12	19.65	4.95	4.71	0.09
17.10	4.73	4.49	0.12	19.70	4.95	4.71	0.09
17.15	4.74	4.50	0.12	19.75	4.96	4.72	0.08
17.20	4.74	4.50	0.12	19.80	4.96	4.72	0.08
17.25	4.75	4.51	0.12	19.85	4.96	4.73	0.08
17.30	4.75	4.51	0.11	19.90	4.97	4.73	0.08
17.35	4.76	4.52	0.11	19.95	4.97	4.73	0.08
17.40	4.76	4.52	0.11	20.00	4.97	4.74	0.08
17.45	4.77	4.53	0.11	20.05	4.98	4.74	0.08
17.50	4.77	4.53	0.11	20.10	4.98	4.74	0.08
17.55	4.78	4.54	0.11	20.15	4.99	4.75	0.08
17.60	4.78	4.54	0.11	20.20	4.99	4.75	0.08
17.65	4.78	4.55	0.11	20.25	4.99	4.76	0.08
17.70	4.79	4.55	0.11	20.30	5.00	4.76	0.08
17.75	4.79	4.56	0.10	20.35	5.00	4.76	0.08
17.80	4.80	4.56	0.10	20.40	5.00	4.77	0.08
17.85	4.80	4.57	0.10	20.45	5.01	4.77	0.08
17.90	4.81	4.57	0.10	20.50	5.01	4.77	0.08
17.95	4.81	4.57	0.10	20.55	5.01	4.78	0.08
18.00	4.82	4.58	0.10	20.60	5.02	4.78	0.08
18.05	4.82	4.58	0.10	20.65	5.02	4.78	0.08
18.10	4.82	4.59	0.10	20.70	5.02	4.79	0.08
18.15	4.83	4.59	0.09	20.75	5.03	4.79	0.08

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.03	4.79	0.08	23.40	5.20	4.96	0.06
20.85	5.04	4.80	0.08	23.45	5.20	4.96	0.06
20.90	5.04	4.80	0.08	23.50	5.20	4.96	0.06
20.95	5.04	4.81	0.08	23.55	5.20	4.97	0.06
21.00	5.05	4.81	0.08	23.60	5.21	4.97	0.06
21.05	5.05	4.81	0.08	23.65	5.21	4.97	0.06
21.10	5.05	4.82	0.08	23.70	5.21	4.98	0.06
21.15	5.06	4.82	0.08	23.75	5.22	4.98	0.06
21.20	5.06	4.82	0.08	23.80	5.22	4.98	0.06
21.25	5.06	4.83	0.08	23.85	5.22	4.98	0.06
21.30	5.07	4.83	0.08	23.90	5.22	4.99	0.06
21.35	5.07	4.83	0.08	23.95	5.23	4.99	0.06
21.40	5.07	4.84	0.08	24.00	**5.23**	**4.99**	0.07
21.45	5.08	4.84	0.08				
21.50	5.08	4.84	0.07				
21.55	5.08	4.85	0.07				
21.60	5.09	4.85	0.07				
21.65	5.09	4.85	0.07				
21.70	5.09	4.86	0.07				
21.75	5.10	4.86	0.07				
21.80	5.10	4.86	0.07				
21.85	5.10	4.87	0.07				
21.90	5.11	4.87	0.07				
21.95	5.11	4.87	0.07				
22.00	5.11	4.87	0.07				
22.05	5.11	4.88	0.07				
22.10	5.12	4.88	0.07				
22.15	5.12	4.88	0.07				
22.20	5.12	4.89	0.07				
22.25	5.13	4.89	0.07				
22.30	5.13	4.89	0.07				
22.35	5.13	4.90	0.07				
22.40	5.14	4.90	0.07				
22.45	5.14	4.90	0.07				
22.50	5.14	4.91	0.07				
22.55	5.15	4.91	0.07				
22.60	5.15	4.91	0.07				
22.65	5.15	4.91	0.07				
22.70	5.16	4.92	0.07				
22.75	5.16	4.92	0.07				
22.80	5.16	4.92	0.07				
22.85	5.16	4.93	0.07				
22.90	5.17	4.93	0.07				
22.95	5.17	4.93	0.07				
23.00	5.17	4.94	0.07				
23.05	5.18	4.94	0.07				
23.10	5.18	4.94	0.07				
23.15	5.18	4.94	0.07				
23.20	5.18	4.95	0.06				
23.25	5.19	4.95	0.06				
23.30	5.19	4.95	0.06				
23.35	5.19	4.96	0.06				

Summary for Subcatchment PDA3 PERV: PDA3 PERV

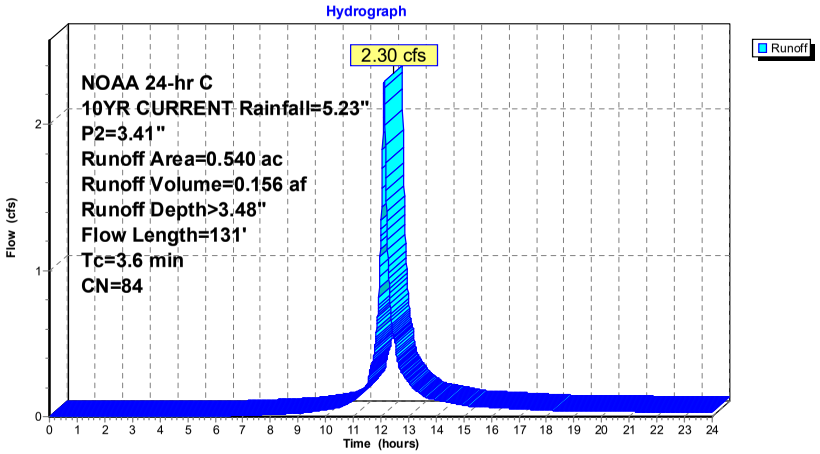
Runoff = 2.30 cfs @ 12.12 hrs, Volume= 0.156 af, Depth> 3.48"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR CURRENT Rainfall=5.23", P2=3.41"

	Area (ac)	CN	Description
*	0.540	84	>75% Grass cover, Good, HSG D
	0.540		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	23	0.0200	0.13		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.1	42	0.0150	5.59	6.86	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
3.6	131	Total			

Subcatchment PDA3 PERV: PDA3 PERV



Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.16	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.16	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.16	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.17	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.17	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.17	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.18	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.18	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.18	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.19	0.00	0.00
0.50	0.03	0.00	0.00	3.10	0.19	0.00	0.00
0.55	0.03	0.00	0.00	3.15	0.19	0.00	0.00
0.60	0.03	0.00	0.00	3.20	0.20	0.00	0.00
0.65	0.04	0.00	0.00	3.25	0.20	0.00	0.00
0.70	0.04	0.00	0.00	3.30	0.21	0.00	0.00
0.75	0.04	0.00	0.00	3.35	0.21	0.00	0.00
0.80	0.05	0.00	0.00	3.40	0.21	0.00	0.00
0.85	0.05	0.00	0.00	3.45	0.22	0.00	0.00
0.90	0.05	0.00	0.00	3.50	0.22	0.00	0.00
0.95	0.05	0.00	0.00	3.55	0.22	0.00	0.00
1.00	0.06	0.00	0.00	3.60	0.23	0.00	0.00
1.05	0.06	0.00	0.00	3.65	0.23	0.00	0.00
1.10	0.06	0.00	0.00	3.70	0.23	0.00	0.00
1.15	0.07	0.00	0.00	3.75	0.24	0.00	0.00
1.20	0.07	0.00	0.00	3.80	0.24	0.00	0.00
1.25	0.07	0.00	0.00	3.85	0.24	0.00	0.00
1.30	0.07	0.00	0.00	3.90	0.25	0.00	0.00
1.35	0.08	0.00	0.00	3.95	0.25	0.00	0.00
1.40	0.08	0.00	0.00	4.00	0.26	0.00	0.00
1.45	0.08	0.00	0.00	4.05	0.26	0.00	0.00
1.50	0.09	0.00	0.00	4.10	0.26	0.00	0.00
1.55	0.09	0.00	0.00	4.15	0.27	0.00	0.00
1.60	0.09	0.00	0.00	4.20	0.27	0.00	0.00
1.65	0.10	0.00	0.00	4.25	0.27	0.00	0.00
1.70	0.10	0.00	0.00	4.30	0.28	0.00	0.00
1.75	0.10	0.00	0.00	4.35	0.28	0.00	0.00
1.80	0.11	0.00	0.00	4.40	0.29	0.00	0.00
1.85	0.11	0.00	0.00	4.45	0.29	0.00	0.00
1.90	0.11	0.00	0.00	4.50	0.29	0.00	0.00
1.95	0.12	0.00	0.00	4.55	0.30	0.00	0.00
2.00	0.12	0.00	0.00	4.60	0.30	0.00	0.00
2.05	0.12	0.00	0.00	4.65	0.31	0.00	0.00
2.10	0.12	0.00	0.00	4.70	0.31	0.00	0.00
2.15	0.13	0.00	0.00	4.75	0.31	0.00	0.00
2.20	0.13	0.00	0.00	4.80	0.32	0.00	0.00
2.25	0.13	0.00	0.00	4.85	0.32	0.00	0.00
2.30	0.14	0.00	0.00	4.90	0.32	0.00	0.00
2.35	0.14	0.00	0.00	4.95	0.33	0.00	0.00
2.40	0.14	0.00	0.00	5.00	0.33	0.00	0.00
2.45	0.15	0.00	0.00	5.05	0.34	0.00	0.00
2.50	0.15	0.00	0.00	5.10	0.34	0.00	0.00
2.55	0.15	0.00	0.00	5.15	0.34	0.00	0.00

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.35	0.00	0.00	7.80	0.60	0.02	0.01
5.25	0.35	0.00	0.00	7.85	0.61	0.02	0.01
5.30	0.36	0.00	0.00	7.90	0.61	0.03	0.01
5.35	0.36	0.00	0.00	7.95	0.62	0.03	0.01
5.40	0.36	0.00	0.00	8.00	0.63	0.03	0.01
5.45	0.37	0.00	0.00	8.05	0.63	0.03	0.01
5.50	0.37	0.00	0.00	8.10	0.64	0.03	0.01
5.55	0.38	0.00	0.00	8.15	0.65	0.03	0.02
5.60	0.38	0.00	0.00	8.20	0.65	0.03	0.02
5.65	0.39	0.00	0.00	8.25	0.66	0.04	0.02
5.70	0.39	0.00	0.00	8.30	0.67	0.04	0.02
5.75	0.39	0.00	0.00	8.35	0.67	0.04	0.02
5.80	0.40	0.00	0.00	8.40	0.68	0.04	0.02
5.85	0.40	0.00	0.00	8.45	0.69	0.04	0.02
5.90	0.41	0.00	0.00	8.50	0.69	0.04	0.02
5.95	0.41	0.00	0.00	8.55	0.70	0.05	0.02
6.00	0.41	0.00	0.00	8.60	0.71	0.05	0.02
6.05	0.42	0.00	0.00	8.65	0.71	0.05	0.02
6.10	0.42	0.00	0.00	8.70	0.72	0.05	0.02
6.15	0.43	0.00	0.00	8.75	0.73	0.05	0.02
6.20	0.43	0.00	0.00	8.80	0.73	0.06	0.02
6.25	0.44	0.00	0.00	8.85	0.74	0.06	0.02
6.30	0.44	0.00	0.00	8.90	0.75	0.06	0.02
6.35	0.45	0.00	0.00	8.95	0.76	0.06	0.02
6.40	0.45	0.00	0.00	9.00	0.76	0.06	0.02
6.45	0.45	0.00	0.00	9.05	0.77	0.07	0.02
6.50	0.46	0.00	0.00	9.10	0.78	0.07	0.03
6.55	0.46	0.00	0.00	9.15	0.79	0.07	0.03
6.60	0.47	0.00	0.00	9.20	0.80	0.07	0.03
6.65	0.47	0.00	0.00	9.25	0.80	0.08	0.03
6.70	0.48	0.00	0.00	9.30	0.81	0.08	0.03
6.75	0.48	0.01	0.00	9.35	0.82	0.08	0.03
6.80	0.49	0.01	0.01	9.40	0.83	0.09	0.03
6.85	0.49	0.01	0.01	9.45	0.84	0.09	0.03
6.90	0.50	0.01	0.01	9.50	0.85	0.09	0.03
6.95	0.50	0.01	0.01	9.55	0.86	0.10	0.04
7.00	0.51	0.01	0.01	9.60	0.87	0.10	0.04
7.05	0.52	0.01	0.01	9.65	0.88	0.10	0.04
7.10	0.52	0.01	0.01	9.70	0.89	0.11	0.04
7.15	0.53	0.01	0.01	9.75	0.90	0.11	0.04
7.20	0.53	0.01	0.01	9.80	0.91	0.11	0.04
7.25	0.54	0.01	0.01	9.85	0.92	0.12	0.04
7.30	0.54	0.01	0.01	9.90	0.93	0.12	0.05
7.35	0.55	0.01	0.01	9.95	0.94	0.13	0.05
7.40	0.55	0.01	0.01	10.00	0.95	0.13	0.05
7.45	0.56	0.02	0.01	10.05	0.97	0.14	0.05
7.50	0.57	0.02	0.01	10.10	0.98	0.14	0.05
7.55	0.57	0.02	0.01	10.15	0.99	0.15	0.05
7.60	0.58	0.02	0.01	10.20	1.00	0.15	0.05
7.65	0.58	0.02	0.01	10.25	1.01	0.16	0.06
7.70	0.59	0.02	0.01	10.30	1.03	0.16	0.06
7.75	0.60	0.02	0.01	10.35	1.04	0.17	0.06

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.05	0.17	0.06	13.00	3.97	2.35	0.24
10.45	1.06	0.18	0.06	13.05	4.00	2.37	0.22
10.50	1.08	0.19	0.06	13.10	4.02	2.39	0.21
10.55	1.09	0.19	0.07	13.15	4.04	2.40	0.20
10.60	1.11	0.20	0.07	13.20	4.05	2.42	0.19
10.65	1.12	0.21	0.08	13.25	4.07	2.44	0.18
10.70	1.14	0.22	0.08	13.30	4.09	2.45	0.18
10.75	1.16	0.22	0.09	13.35	4.11	2.47	0.17
10.80	1.18	0.23	0.09	13.40	4.12	2.48	0.16
10.85	1.19	0.24	0.10	13.45	4.14	2.49	0.16
10.90	1.21	0.25	0.10	13.50	4.15	2.51	0.15
10.95	1.23	0.26	0.11	13.55	4.17	2.52	0.14
11.00	1.26	0.28	0.11	13.60	4.18	2.53	0.13
11.05	1.28	0.29	0.12	13.65	4.19	2.54	0.13
11.10	1.30	0.30	0.13	13.70	4.20	2.55	0.13
11.15	1.33	0.31	0.14	13.75	4.22	2.56	0.12
11.20	1.35	0.33	0.15	13.80	4.23	2.57	0.12
11.25	1.38	0.35	0.16	13.85	4.24	2.58	0.12
11.30	1.41	0.36	0.17	13.90	4.25	2.60	0.12
11.35	1.45	0.38	0.18	13.95	4.26	2.61	0.12
11.40	1.48	0.40	0.19	14.00	4.28	2.62	0.11
11.45	1.51	0.42	0.21	14.05	4.29	2.63	0.11
11.50	1.55	0.44	0.22	14.10	4.30	2.64	0.11
11.55	1.60	0.47	0.26	14.15	4.31	2.65	0.11
11.60	1.65	0.51	0.31	14.20	4.32	2.66	0.11
11.65	1.71	0.54	0.35	14.25	4.33	2.67	0.11
11.70	1.76	0.58	0.37	14.30	4.34	2.67	0.10
11.75	1.84	0.63	0.43	14.35	4.35	2.68	0.10
11.80	1.92	0.68	0.50	14.40	4.36	2.69	0.10
11.85	2.02	0.76	0.61	14.45	4.37	2.70	0.10
11.90	2.13	0.84	0.72	14.50	4.38	2.71	0.10
11.95	2.31	0.97	0.96	14.55	4.39	2.72	0.09
12.00	2.49	1.11	1.24	14.60	4.40	2.73	0.09
12.05	2.80	1.35	1.70	14.65	4.41	2.73	0.09
12.10	3.10	1.60	**2.22**	14.70	4.42	2.74	0.09
12.15	3.21	1.69	**1.99**	14.75	4.43	2.75	0.09
12.20	3.31	1.78	1.47	14.80	4.43	2.76	0.08
12.25	3.39	1.84	1.14	14.85	4.44	2.76	0.08
12.30	3.47	1.91	0.91	14.90	4.45	2.77	0.08
12.35	3.52	1.96	0.74	14.95	4.46	2.78	0.08
12.40	3.58	2.00	0.62	15.00	4.47	2.79	0.08
12.45	3.63	2.05	0.56	15.05	4.47	2.79	0.08
12.50	3.68	2.10	0.52	15.10	4.48	2.80	0.07
12.55	3.72	2.13	0.46	15.15	4.49	2.81	0.07
12.60	3.75	2.15	0.39	15.20	4.50	2.81	0.07
12.65	3.78	2.18	0.35	15.25	4.50	2.82	0.07
12.70	3.82	2.21	0.32	15.30	4.51	2.83	0.07
12.75	3.85	2.24	0.30	15.35	4.52	2.83	0.07
12.80	3.88	2.26	0.29	15.40	4.52	2.84	0.07
12.85	3.90	2.28	0.28	15.45	4.53	2.84	0.07
12.90	3.93	2.31	0.26	15.50	4.54	2.85	0.07
12.95	3.95	2.33	0.25	15.55	4.54	2.86	0.07

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	4.55	2.86	0.07	18.20	4.83	3.12	0.04
15.65	4.56	2.87	0.07	18.25	4.84	3.12	0.04
15.70	4.56	2.87	0.07	18.30	4.84	3.12	0.04
15.75	4.57	2.88	0.07	18.35	4.84	3.13	0.04
15.80	4.58	2.89	0.07	18.40	4.85	3.13	0.04
15.85	4.58	2.89	0.06	18.45	4.85	3.14	0.04
15.90	4.59	2.90	0.06	18.50	4.86	3.14	0.04
15.95	4.60	2.90	0.06	18.55	4.86	3.14	0.04
16.00	4.60	2.91	0.06	18.60	4.87	3.15	0.04
16.05	4.61	2.92	0.06	18.65	4.87	3.15	0.04
16.10	4.62	2.92	0.06	18.70	4.87	3.15	0.04
16.15	4.62	2.93	0.06	18.75	4.88	3.16	0.04
16.20	4.63	2.93	0.06	18.80	4.88	3.16	0.04
16.25	4.63	2.94	0.06	18.85	4.89	3.17	0.04
16.30	4.64	2.94	0.06	18.90	4.89	3.17	0.04
16.35	4.65	2.95	0.06	18.95	4.89	3.17	0.04
16.40	4.65	2.95	0.06	19.00	4.90	3.18	0.04
16.45	4.66	2.96	0.06	19.05	4.90	3.18	0.04
16.50	4.66	2.96	0.06	19.10	4.91	3.18	0.04
16.55	4.67	2.97	0.06	19.15	4.91	3.19	0.04
16.60	4.68	2.98	0.06	19.20	4.91	3.19	0.04
16.65	4.68	2.98	0.06	19.25	4.92	3.19	0.04
16.70	4.69	2.99	0.06	19.30	4.92	3.20	0.04
16.75	4.69	2.99	0.06	19.35	4.92	3.20	0.04
16.80	4.70	3.00	0.06	19.40	4.93	3.21	0.04
16.85	4.70	3.00	0.05	19.45	4.93	3.21	0.04
16.90	4.71	3.01	0.05	19.50	4.94	3.21	0.04
16.95	4.71	3.01	0.05	19.55	4.94	3.22	0.04
17.00	4.72	3.02	0.05	19.60	4.94	3.22	0.04
17.05	4.73	3.02	0.05	19.65	4.95	3.22	0.04
17.10	4.73	3.02	0.05	19.70	4.95	3.23	0.04
17.15	4.74	3.03	0.05	19.75	4.96	3.23	0.04
17.20	4.74	3.03	0.05	19.80	4.96	3.23	0.04
17.25	4.75	3.04	0.05	19.85	4.96	3.24	0.04
17.30	4.75	3.04	0.05	19.90	4.97	3.24	0.04
17.35	4.76	3.05	0.05	19.95	4.97	3.24	0.04
17.40	4.76	3.05	0.05	20.00	4.97	3.25	0.04
17.45	4.77	3.06	0.05	20.05	4.98	3.25	0.04
17.50	4.77	3.06	0.05	20.10	4.98	3.25	0.04
17.55	4.78	3.07	0.05	20.15	4.99	3.26	0.04
17.60	4.78	3.07	0.05	20.20	4.99	3.26	0.04
17.65	4.78	3.07	0.05	20.25	4.99	3.26	0.04
17.70	4.79	3.08	0.05	20.30	5.00	3.27	0.04
17.75	4.79	3.08	0.05	20.35	5.00	3.27	0.04
17.80	4.80	3.09	0.05	20.40	5.00	3.27	0.04
17.85	4.80	3.09	0.04	20.45	5.01	3.28	0.04
17.90	4.81	3.09	0.04	20.50	5.01	3.28	0.04
17.95	4.81	3.10	0.04	20.55	5.01	3.28	0.04
18.00	4.82	3.10	0.04	20.60	5.02	3.29	0.04
18.05	4.82	3.11	0.04	20.65	5.02	3.29	0.04
18.10	4.82	3.11	0.04	20.70	5.02	3.29	0.04
18.15	4.83	3.11	0.04	20.75	5.03	3.30	0.04

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.03	3.30	0.04	23.40	5.20	3.45	0.03
20.85	5.04	3.30	0.03	23.45	5.20	3.45	0.03
20.90	5.04	3.31	0.03	23.50	5.20	3.46	0.03
20.95	5.04	3.31	0.03	23.55	5.20	3.46	0.03
21.00	5.05	3.31	0.03	23.60	5.21	3.46	0.03
21.05	5.05	3.32	0.03	23.65	5.21	3.46	0.03
21.10	5.05	3.32	0.03	23.70	5.21	3.47	0.03
21.15	5.06	3.32	0.03	23.75	5.22	3.47	0.03
21.20	5.06	3.32	0.03	23.80	5.22	3.47	0.03
21.25	5.06	3.33	0.03	23.85	5.22	3.47	0.03
21.30	5.07	3.33	0.03	23.90	5.22	3.48	0.03
21.35	5.07	3.33	0.03	23.95	5.23	3.48	0.03
21.40	5.07	3.34	0.03	24.00	**5.23**	**3.48**	0.03
21.45	5.08	3.34	0.03				
21.50	5.08	3.34	0.03				
21.55	5.08	3.35	0.03				
21.60	5.09	3.35	0.03				
21.65	5.09	3.35	0.03				
21.70	5.09	3.36	0.03				
21.75	5.10	3.36	0.03				
21.80	5.10	3.36	0.03				
21.85	5.10	3.36	0.03				
21.90	5.11	3.37	0.03				
21.95	5.11	3.37	0.03				
22.00	5.11	3.37	0.03				
22.05	5.11	3.38	0.03				
22.10	5.12	3.38	0.03				
22.15	5.12	3.38	0.03				
22.20	5.12	3.38	0.03				
22.25	5.13	3.39	0.03				
22.30	5.13	3.39	0.03				
22.35	5.13	3.39	0.03				
22.40	5.14	3.40	0.03				
22.45	5.14	3.40	0.03				
22.50	5.14	3.40	0.03				
22.55	5.15	3.40	0.03				
22.60	5.15	3.41	0.03				
22.65	5.15	3.41	0.03				
22.70	5.16	3.41	0.03				
22.75	5.16	3.42	0.03				
22.80	5.16	3.42	0.03				
22.85	5.16	3.42	0.03				
22.90	5.17	3.42	0.03				
22.95	5.17	3.43	0.03				
23.00	5.17	3.43	0.03				
23.05	5.18	3.43	0.03				
23.10	5.18	3.43	0.03				
23.15	5.18	3.44	0.03				
23.20	5.18	3.44	0.03				
23.25	5.19	3.44	0.03				
23.30	5.19	3.44	0.03				
23.35	5.19	3.45	0.03				

Summary for Subcatchment PDA4 IMP: PDA4 IMP

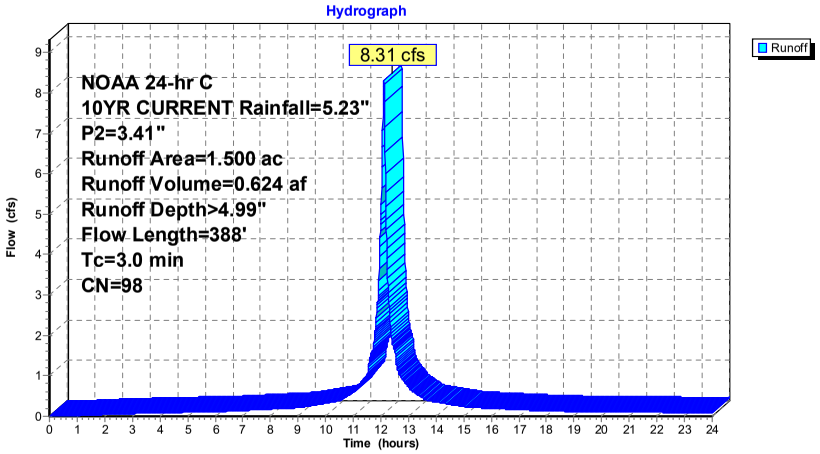
Runoff = 8.31 cfs @ 12.11 hrs, Volume= 0.624 af, Depth> 4.99"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR CURRENT Rainfall=5.23", P2=3.41"

	Area (ac)	CN	Description
*	1.500	98	Impervious vehicular
	1.500		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	100	0.0160	1.30		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.6	88	0.0150	2.49		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.5	100	0.0039	3.22	5.69	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.6	100	0.0020	2.79	8.77	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
3.0	388	Total			

Subcatchment PDA4 IMP: PDA4 IMP



Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.16	0.04	0.06
0.05	0.00	0.00	0.00	2.65	0.16	0.04	0.06
0.10	0.01	0.00	0.00	2.70	0.16	0.05	0.06
0.15	0.01	0.00	0.00	2.75	0.17	0.05	0.06
0.20	0.01	0.00	0.00	2.80	0.17	0.05	0.06
0.25	0.01	0.00	0.00	2.85	0.17	0.05	0.06
0.30	0.02	0.00	0.00	2.90	0.18	0.05	0.06
0.35	0.02	0.00	0.00	2.95	0.18	0.06	0.07
0.40	0.02	0.00	0.00	3.00	0.18	0.06	0.07
0.45	0.03	0.00	0.00	3.05	0.19	0.06	0.07
0.50	0.03	0.00	0.00	3.10	0.19	0.06	0.07
0.55	0.03	0.00	0.00	3.15	0.19	0.07	0.07
0.60	0.03	0.00	0.00	3.20	0.20	0.07	0.07
0.65	0.04	0.00	0.00	3.25	0.20	0.07	0.07
0.70	0.04	0.00	0.00	3.30	0.21	0.07	0.07
0.75	0.04	0.00	0.00	3.35	0.21	0.08	0.07
0.80	0.05	0.00	0.00	3.40	0.21	0.08	0.07
0.85	0.05	0.00	0.00	3.45	0.22	0.08	0.08
0.90	0.05	0.00	0.01	3.50	0.22	0.08	0.08
0.95	0.05	0.00	0.01	3.55	0.22	0.09	0.08
1.00	0.06	0.00	0.01	3.60	0.23	0.09	0.08
1.05	0.06	0.00	0.01	3.65	0.23	0.09	0.08
1.10	0.06	0.00	0.01	3.70	0.23	0.09	0.08
1.15	0.07	0.00	0.02	3.75	0.24	0.10	0.08
1.20	0.07	0.00	0.02	3.80	0.24	0.10	0.08
1.25	0.07	0.00	0.02	3.85	0.24	0.10	0.08
1.30	0.07	0.00	0.02	3.90	0.25	0.10	0.08
1.35	0.08	0.01	0.02	3.95	0.25	0.11	0.08
1.40	0.08	0.01	0.02	4.00	0.26	0.11	0.08
1.45	0.08	0.01	0.03	4.05	0.26	0.11	0.09
1.50	0.09	0.01	0.03	4.10	0.26	0.12	0.09
1.55	0.09	0.01	0.03	4.15	0.27	0.12	0.09
1.60	0.09	0.01	0.03	4.20	0.27	0.12	0.09
1.65	0.10	0.01	0.03	4.25	0.27	0.12	0.09
1.70	0.10	0.01	0.03	4.30	0.28	0.13	0.09
1.75	0.10	0.01	0.04	4.35	0.28	0.13	0.09
1.80	0.11	0.02	0.04	4.40	0.29	0.13	0.09
1.85	0.11	0.02	0.04	4.45	0.29	0.14	0.09
1.90	0.11	0.02	0.04	4.50	0.29	0.14	0.09
1.95	0.12	0.02	0.04	4.55	0.30	0.14	0.09
2.00	0.12	0.02	0.04	4.60	0.30	0.15	0.09
2.05	0.12	0.02	0.04	4.65	0.31	0.15	0.09
2.10	0.12	0.02	0.05	4.70	0.31	0.15	0.09
2.15	0.13	0.03	0.05	4.75	0.31	0.16	0.10
2.20	0.13	0.03	0.05	4.80	0.32	0.16	0.10
2.25	0.13	0.03	0.05	4.85	0.32	0.16	0.10
2.30	0.14	0.03	0.05	4.90	0.32	0.17	0.10
2.35	0.14	0.03	0.05	4.95	0.33	0.17	0.10
2.40	0.14	0.03	0.05	5.00	0.33	0.17	0.10
2.45	0.15	0.04	0.05	5.05	0.34	0.18	0.10
2.50	0.15	0.04	0.06	5.10	0.34	0.18	0.10
2.55	0.15	0.04	0.06	5.15	0.34	0.18	0.10

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.35	0.19	0.10	7.80	0.60	0.41	0.17
5.25	0.35	0.19	0.10	7.85	0.61	0.42	0.17
5.30	0.36	0.19	0.10	7.90	0.61	0.42	0.17
5.35	0.36	0.20	0.10	7.95	0.62	0.43	0.18
5.40	0.36	0.20	0.10	8.00	0.63	0.43	0.18
5.45	0.37	0.20	0.10	8.05	0.63	0.44	0.18
5.50	0.37	0.21	0.10	8.10	0.64	0.45	0.18
5.55	0.38	0.21	0.11	8.15	0.65	0.45	0.18
5.60	0.38	0.21	0.11	8.20	0.65	0.46	0.18
5.65	0.39	0.22	0.11	8.25	0.66	0.46	0.18
5.70	0.39	0.22	0.11	8.30	0.67	0.47	0.19
5.75	0.39	0.22	0.11	8.35	0.67	0.48	0.19
5.80	0.40	0.23	0.11	8.40	0.68	0.48	0.19
5.85	0.40	0.23	0.11	8.45	0.69	0.49	0.19
5.90	0.41	0.23	0.11	8.50	0.69	0.50	0.19
5.95	0.41	0.24	0.11	8.55	0.70	0.50	0.20
6.00	0.41	0.24	0.11	8.60	0.71	0.51	0.20
6.05	0.42	0.25	0.11	8.65	0.71	0.52	0.20
6.10	0.42	0.25	0.11	8.70	0.72	0.52	0.20
6.15	0.43	0.25	0.12	8.75	0.73	0.53	0.20
6.20	0.43	0.26	0.12	8.80	0.73	0.54	0.20
6.25	0.44	0.26	0.12	8.85	0.74	0.54	0.20
6.30	0.44	0.27	0.12	8.90	0.75	0.55	0.21
6.35	0.45	0.27	0.12	8.95	0.76	0.56	0.21
6.40	0.45	0.27	0.12	9.00	0.76	0.56	0.21
6.45	0.45	0.28	0.13	9.05	0.77	0.57	0.22
6.50	0.46	0.28	0.13	9.10	0.78	0.58	0.22
6.55	0.46	0.29	0.13	9.15	0.79	0.59	0.23
6.60	0.47	0.29	0.13	9.20	0.80	0.59	0.23
6.65	0.47	0.29	0.13	9.25	0.80	0.60	0.24
6.70	0.48	0.30	0.13	9.30	0.81	0.61	0.24
6.75	0.48	0.30	0.13	9.35	0.82	0.62	0.25
6.80	0.49	0.31	0.14	9.40	0.83	0.63	0.25
6.85	0.49	0.31	0.14	9.45	0.84	0.64	0.26
6.90	0.50	0.32	0.14	9.50	0.85	0.65	0.27
6.95	0.50	0.32	0.14	9.55	0.86	0.65	0.27
7.00	0.51	0.33	0.14	9.60	0.87	0.66	0.28
7.05	0.52	0.33	0.15	9.65	0.88	0.67	0.28
7.10	0.52	0.34	0.15	9.70	0.89	0.68	0.29
7.15	0.53	0.34	0.15	9.75	0.90	0.69	0.30
7.20	0.53	0.35	0.15	9.80	0.91	0.70	0.30
7.25	0.54	0.35	0.15	9.85	0.92	0.71	0.31
7.30	0.54	0.36	0.15	9.90	0.93	0.72	0.31
7.35	0.55	0.36	0.15	9.95	0.94	0.74	0.32
7.40	0.55	0.37	0.16	10.00	0.95	0.75	0.33
7.45	0.56	0.37	0.16	10.05	0.97	0.76	0.33
7.50	0.57	0.38	0.16	10.10	0.98	0.77	0.34
7.55	0.57	0.38	0.16	10.15	0.99	0.78	0.34
7.60	0.58	0.39	0.16	10.20	1.00	0.79	0.35
7.65	0.58	0.39	0.16	10.25	1.01	0.80	0.36
7.70	0.59	0.40	0.17	10.30	1.03	0.82	0.36
7.75	0.60	0.41	0.17	10.35	1.04	0.83	0.37

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.05	0.84	0.37	13.00	3.97	3.74	0.73
10.45	1.06	0.85	0.38	13.05	4.00	3.76	0.69
10.50	1.08	0.87	0.39	13.10	4.02	3.78	0.65
10.55	1.09	0.88	0.40	13.15	4.04	3.80	0.62
10.60	1.11	0.90	0.42	13.20	4.05	3.82	0.59
10.65	1.12	0.91	0.45	13.25	4.07	3.84	0.57
10.70	1.14	0.93	0.47	13.30	4.09	3.86	0.55
10.75	1.16	0.94	0.49	13.35	4.11	3.87	0.52
10.80	1.18	0.96	0.51	13.40	4.12	3.89	0.50
10.85	1.19	0.98	0.54	13.45	4.14	3.90	0.48
10.90	1.21	1.00	0.56	13.50	4.15	3.92	0.46
10.95	1.23	1.02	0.58	13.55	4.17	3.93	0.43
11.00	1.26	1.04	0.60	13.60	4.18	3.94	0.41
11.05	1.28	1.06	0.64	13.65	4.19	3.96	0.40
11.10	1.30	1.09	0.67	13.70	4.20	3.97	0.39
11.15	1.33	1.11	0.72	13.75	4.22	3.98	0.38
11.20	1.35	1.14	0.76	13.80	4.23	3.99	0.38
11.25	1.38	1.17	0.81	13.85	4.24	4.01	0.37
11.30	1.41	1.19	0.84	13.90	4.25	4.02	0.37
11.35	1.45	1.23	0.89	13.95	4.26	4.03	0.36
11.40	1.48	1.26	0.93	14.00	4.28	4.04	0.35
11.45	1.51	1.29	0.97	14.05	4.29	4.05	0.35
11.50	1.55	1.32	1.00	14.10	4.30	4.06	0.34
11.55	1.60	1.38	1.22	14.15	4.31	4.07	0.34
11.60	1.65	1.43	1.43	14.20	4.32	4.09	0.33
11.65	1.71	1.48	1.55	14.25	4.33	4.10	0.32
11.70	1.76	1.54	1.62	14.30	4.34	4.11	0.32
11.75	1.84	1.61	1.89	14.35	4.35	4.12	0.31
11.80	1.92	1.69	2.12	14.40	4.36	4.13	0.31
11.85	2.02	1.80	2.56	14.45	4.37	4.14	0.30
11.90	2.13	1.90	2.93	14.50	4.38	4.15	0.30
11.95	2.31	2.08	3.96	14.55	4.39	4.15	0.29
12.00	2.49	2.26	4.87	14.60	4.40	4.16	0.28
12.05	2.80	2.57	6.66	14.65	4.41	4.17	0.28
12.10	3.10	2.87	**8.17**	14.70	4.42	4.18	0.27
12.15	3.21	2.98	**6.52**	14.75	4.43	4.19	0.27
12.20	3.31	3.08	4.60	14.80	4.43	4.20	0.26
12.25	3.39	3.16	3.42	14.85	4.44	4.21	0.25
12.30	3.47	3.23	2.72	14.90	4.45	4.21	0.25
12.35	3.52	3.29	2.21	14.95	4.46	4.22	0.24
12.40	3.58	3.35	1.88	15.00	4.47	4.23	0.24
12.45	3.63	3.40	1.72	15.05	4.47	4.24	0.23
12.50	3.68	3.45	1.64	15.10	4.48	4.24	0.23
12.55	3.72	3.48	1.39	15.15	4.49	4.25	0.22
12.60	3.75	3.52	1.18	15.20	4.50	4.26	0.22
12.65	3.78	3.55	1.06	15.25	4.50	4.27	0.22
12.70	3.82	3.58	1.00	15.30	4.51	4.27	0.22
12.75	3.85	3.61	0.94	15.35	4.52	4.28	0.21
12.80	3.88	3.64	0.90	15.40	4.52	4.29	0.21
12.85	3.90	3.67	0.86	15.45	4.53	4.29	0.21
12.90	3.93	3.69	0.82	15.50	4.54	4.30	0.21
12.95	3.95	3.72	0.77	15.55	4.54	4.31	0.21

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	4.55	4.31	0.21	18.20	4.83	4.60	0.13
15.65	4.56	4.32	0.20	18.25	4.84	4.60	0.13
15.70	4.56	4.33	0.20	18.30	4.84	4.60	0.13
15.75	4.57	4.33	0.20	18.35	4.84	4.61	0.13
15.80	4.58	4.34	0.20	18.40	4.85	4.61	0.13
15.85	4.58	4.35	0.20	18.45	4.85	4.62	0.12
15.90	4.59	4.35	0.20	18.50	4.86	4.62	0.12
15.95	4.60	4.36	0.20	18.55	4.86	4.62	0.12
16.00	4.60	4.37	0.19	18.60	4.87	4.63	0.12
16.05	4.61	4.37	0.19	18.65	4.87	4.63	0.12
16.10	4.62	4.38	0.19	18.70	4.87	4.64	0.12
16.15	4.62	4.39	0.19	18.75	4.88	4.64	0.12
16.20	4.63	4.39	0.19	18.80	4.88	4.64	0.12
16.25	4.63	4.40	0.19	18.85	4.89	4.65	0.12
16.30	4.64	4.40	0.18	18.90	4.89	4.65	0.12
16.35	4.65	4.41	0.18	18.95	4.89	4.66	0.12
16.40	4.65	4.42	0.18	19.00	4.90	4.66	0.12
16.45	4.66	4.42	0.18	19.05	4.90	4.66	0.12
16.50	4.66	4.43	0.18	19.10	4.91	4.67	0.12
16.55	4.67	4.43	0.18	19.15	4.91	4.67	0.12
16.60	4.68	4.44	0.18	19.20	4.91	4.68	0.12
16.65	4.68	4.45	0.17	19.25	4.92	4.68	0.12
16.70	4.69	4.45	0.17	19.30	4.92	4.68	0.12
16.75	4.69	4.46	0.17	19.35	4.92	4.69	0.12
16.80	4.70	4.46	0.17	19.40	4.93	4.69	0.12
16.85	4.70	4.47	0.17	19.45	4.93	4.70	0.12
16.90	4.71	4.47	0.17	19.50	4.94	4.70	0.12
16.95	4.71	4.48	0.16	19.55	4.94	4.70	0.12
17.00	4.72	4.48	0.16	19.60	4.94	4.71	0.12
17.05	4.73	4.49	0.16	19.65	4.95	4.71	0.12
17.10	4.73	4.49	0.16	19.70	4.95	4.71	0.11
17.15	4.74	4.50	0.16	19.75	4.96	4.72	0.11
17.20	4.74	4.50	0.16	19.80	4.96	4.72	0.11
17.25	4.75	4.51	0.15	19.85	4.96	4.73	0.11
17.30	4.75	4.51	0.15	19.90	4.97	4.73	0.11
17.35	4.76	4.52	0.15	19.95	4.97	4.73	0.11
17.40	4.76	4.52	0.15	20.00	4.97	4.74	0.11
17.45	4.77	4.53	0.15	20.05	4.98	4.74	0.11
17.50	4.77	4.53	0.15	20.10	4.98	4.74	0.11
17.55	4.78	4.54	0.15	20.15	4.99	4.75	0.11
17.60	4.78	4.54	0.14	20.20	4.99	4.75	0.11
17.65	4.78	4.55	0.14	20.25	4.99	4.76	0.11
17.70	4.79	4.55	0.14	20.30	5.00	4.76	0.11
17.75	4.79	4.56	0.14	20.35	5.00	4.76	0.11
17.80	4.80	4.56	0.14	20.40	5.00	4.77	0.11
17.85	4.80	4.57	0.14	20.45	5.01	4.77	0.11
17.90	4.81	4.57	0.13	20.50	5.01	4.77	0.11
17.95	4.81	4.57	0.13	20.55	5.01	4.78	0.11
18.00	4.82	4.58	0.13	20.60	5.02	4.78	0.11
18.05	4.82	4.58	0.13	20.65	5.02	4.78	0.11
18.10	4.82	4.59	0.13	20.70	5.02	4.79	0.11
18.15	4.83	4.59	0.13	20.75	5.03	4.79	0.11

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

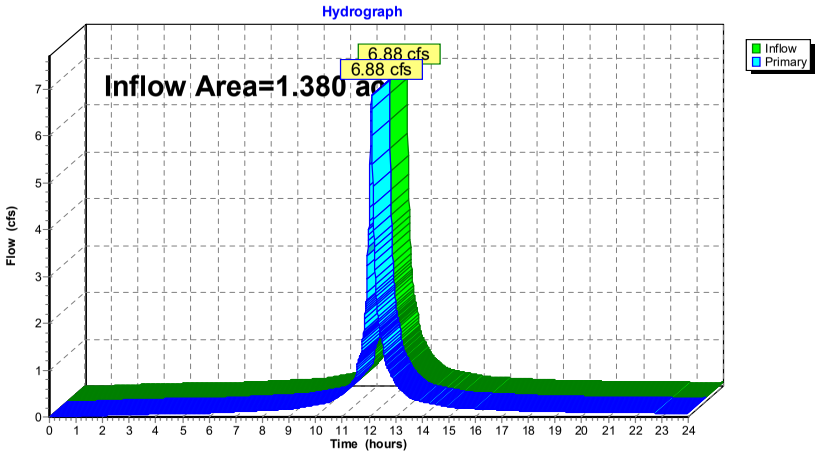
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.03	4.79	0.11	23.40	5.20	4.96	0.09
20.85	5.04	4.80	0.11	23.45	5.20	4.96	0.09
20.90	5.04	4.80	0.11	23.50	5.20	4.96	0.08
20.95	5.04	4.81	0.10	23.55	5.20	4.97	0.08
21.00	5.05	4.81	0.10	23.60	5.21	4.97	0.08
21.05	5.05	4.81	0.10	23.65	5.21	4.97	0.08
21.10	5.05	4.82	0.10	23.70	5.21	4.98	0.08
21.15	5.06	4.82	0.10	23.75	5.22	4.98	0.08
21.20	5.06	4.82	0.10	23.80	5.22	4.98	0.08
21.25	5.06	4.83	0.10	23.85	5.22	4.98	0.08
21.30	5.07	4.83	0.10	23.90	5.22	4.99	0.08
21.35	5.07	4.83	0.10	23.95	5.23	4.99	0.09
21.40	5.07	4.84	0.10	24.00	**5.23**	**4.99**	0.10
21.45	5.08	4.84	0.10				
21.50	5.08	4.84	0.10				
21.55	5.08	4.85	0.10				
21.60	5.09	4.85	0.10				
21.65	5.09	4.85	0.10				
21.70	5.09	4.86	0.10				
21.75	5.10	4.86	0.10				
21.80	5.10	4.86	0.10				
21.85	5.10	4.87	0.10				
21.90	5.11	4.87	0.10				
21.95	5.11	4.87	0.10				
22.00	5.11	4.87	0.10				
22.05	5.11	4.88	0.10				
22.10	5.12	4.88	0.10				
22.15	5.12	4.88	0.10				
22.20	5.12	4.89	0.10				
22.25	5.13	4.89	0.09				
22.30	5.13	4.89	0.09				
22.35	5.13	4.90	0.09				
22.40	5.14	4.90	0.09				
22.45	5.14	4.90	0.09				
22.50	5.14	4.91	0.09				
22.55	5.15	4.91	0.09				
22.60	5.15	4.91	0.09				
22.65	5.15	4.91	0.09				
22.70	5.16	4.92	0.09				
22.75	5.16	4.92	0.09				
22.80	5.16	4.92	0.09				
22.85	5.16	4.93	0.09				
22.90	5.17	4.93	0.09				
22.95	5.17	4.93	0.09				
23.00	5.17	4.94	0.09				
23.05	5.18	4.94	0.09				
23.10	5.18	4.94	0.09				
23.15	5.18	4.94	0.09				
23.20	5.18	4.95	0.09				
23.25	5.19	4.95	0.09				
23.30	5.19	4.95	0.09				
23.35	5.19	4.96	0.09				

Summary for Link P1A: P1A

Inflow Area = 1.380 ac, 80.43% Impervious, Inflow Depth > 4.69" for 10YR CURRENT event
Inflow = 6.88 cfs @ 12.11 hrs, Volume= 0.539 af
Primary = 6.88 cfs @ 12.11 hrs, Volume= 0.539 af, Atten= 0%, Lag= 0.0 min
Routed to Link PPOI-1 : PPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link P1A: P1A



Hydrograph for Link P1A: P1A

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.04	0.00	0.04
0.05	0.00	0.00	0.00	2.65	0.04	0.00	0.04
0.10	0.00	0.00	0.00	2.70	0.05	0.00	0.05
0.15	0.00	0.00	0.00	2.75	0.05	0.00	0.05
0.20	0.00	0.00	0.00	2.80	0.05	0.00	0.05
0.25	0.00	0.00	0.00	2.85	0.05	0.00	0.05
0.30	0.00	0.00	0.00	2.90	0.05	0.00	0.05
0.35	0.00	0.00	0.00	2.95	0.05	0.00	0.05
0.40	0.00	0.00	0.00	3.00	0.05	0.00	0.05
0.45	0.00	0.00	0.00	3.05	0.05	0.00	0.05
0.50	0.00	0.00	0.00	3.10	0.05	0.00	0.05
0.55	0.00	0.00	0.00	3.15	0.05	0.00	0.05
0.60	0.00	0.00	0.00	3.20	0.05	0.00	0.05
0.65	0.00	0.00	0.00	3.25	0.05	0.00	0.05
0.70	0.00	0.00	0.00	3.30	0.05	0.00	0.05
0.75	0.00	0.00	0.00	3.35	0.05	0.00	0.05
0.80	0.00	0.00	0.00	3.40	0.06	0.00	0.06
0.85	0.00	0.00	0.00	3.45	0.06	0.00	0.06
0.90	0.00	0.00	0.00	3.50	0.06	0.00	0.06
0.95	0.01	0.00	0.01	3.55	0.06	0.00	0.06
1.00	0.01	0.00	0.01	3.60	0.06	0.00	0.06
1.05	0.01	0.00	0.01	3.65	0.06	0.00	0.06
1.10	0.01	0.00	0.01	3.70	0.06	0.00	0.06
1.15	0.01	0.00	0.01	3.75	0.06	0.00	0.06
1.20	0.01	0.00	0.01	3.80	0.06	0.00	0.06
1.25	0.01	0.00	0.01	3.85	0.06	0.00	0.06
1.30	0.02	0.00	0.02	3.90	0.06	0.00	0.06
1.35	0.02	0.00	0.02	3.95	0.06	0.00	0.06
1.40	0.02	0.00	0.02	4.00	0.06	0.00	0.06
1.45	0.02	0.00	0.02	4.05	0.06	0.00	0.06
1.50	0.02	0.00	0.02	4.10	0.06	0.00	0.06
1.55	0.02	0.00	0.02	4.15	0.06	0.00	0.06
1.60	0.02	0.00	0.02	4.20	0.06	0.00	0.06
1.65	0.03	0.00	0.03	4.25	0.07	0.00	0.07
1.70	0.03	0.00	0.03	4.30	0.07	0.00	0.07
1.75	0.03	0.00	0.03	4.35	0.07	0.00	0.07
1.80	0.03	0.00	0.03	4.40	0.07	0.00	0.07
1.85	0.03	0.00	0.03	4.45	0.07	0.00	0.07
1.90	0.03	0.00	0.03	4.50	0.07	0.00	0.07
1.95	0.03	0.00	0.03	4.55	0.07	0.00	0.07
2.00	0.03	0.00	0.03	4.60	0.07	0.00	0.07
2.05	0.03	0.00	0.03	4.65	0.07	0.00	0.07
2.10	0.03	0.00	0.03	4.70	0.07	0.00	0.07
2.15	0.04	0.00	0.04	4.75	0.07	0.00	0.07
2.20	0.04	0.00	0.04	4.80	0.07	0.00	0.07
2.25	0.04	0.00	0.04	4.85	0.07	0.00	0.07
2.30	0.04	0.00	0.04	4.90	0.07	0.00	0.07
2.35	0.04	0.00	0.04	4.95	0.07	0.00	0.07
2.40	0.04	0.00	0.04	5.00	0.07	0.00	0.07
2.45	0.04	0.00	0.04	5.05	0.07	0.00	0.07
2.50	0.04	0.00	0.04	5.10	0.07	0.00	0.07
2.55	0.04	0.00	0.04	5.15	0.07	0.00	0.07

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.07	0.00	0.07	7.80	0.13	0.00	0.13
5.25	0.08	0.00	0.08	7.85	0.13	0.00	0.13
5.30	0.08	0.00	0.08	7.90	0.13	0.00	0.13
5.35	0.08	0.00	0.08	7.95	0.14	0.00	0.14
5.40	0.08	0.00	0.08	8.00	0.14	0.00	0.14
5.45	0.08	0.00	0.08	8.05	0.14	0.00	0.14
5.50	0.08	0.00	0.08	8.10	0.14	0.00	0.14
5.55	0.08	0.00	0.08	8.15	0.14	0.00	0.14
5.60	0.08	0.00	0.08	8.20	0.14	0.00	0.14
5.65	0.08	0.00	0.08	8.25	0.14	0.00	0.14
5.70	0.08	0.00	0.08	8.30	0.15	0.00	0.15
5.75	0.08	0.00	0.08	8.35	0.15	0.00	0.15
5.80	0.08	0.00	0.08	8.40	0.15	0.00	0.15
5.85	0.08	0.00	0.08	8.45	0.15	0.00	0.15
5.90	0.08	0.00	0.08	8.50	0.15	0.00	0.15
5.95	0.08	0.00	0.08	8.55	0.15	0.00	0.15
6.00	0.08	0.00	0.08	8.60	0.15	0.00	0.15
6.05	0.08	0.00	0.08	8.65	0.16	0.00	0.16
6.10	0.08	0.00	0.08	8.70	0.16	0.00	0.16
6.15	0.09	0.00	0.09	8.75	0.16	0.00	0.16
6.20	0.09	0.00	0.09	8.80	0.16	0.00	0.16
6.25	0.09	0.00	0.09	8.85	0.16	0.00	0.16
6.30	0.09	0.00	0.09	8.90	0.16	0.00	0.16
6.35	0.09	0.00	0.09	8.95	0.17	0.00	0.17
6.40	0.09	0.00	0.09	9.00	0.17	0.00	0.17
6.45	0.09	0.00	0.09	9.05	0.17	0.00	0.17
6.50	0.10	0.00	0.10	9.10	0.17	0.00	0.17
6.55	0.10	0.00	0.10	9.15	0.18	0.00	0.18
6.60	0.10	0.00	0.10	9.20	0.18	0.00	0.18
6.65	0.10	0.00	0.10	9.25	0.19	0.00	0.19
6.70	0.10	0.00	0.10	9.30	0.19	0.00	0.19
6.75	0.10	0.00	0.10	9.35	0.20	0.00	0.20
6.80	0.10	0.00	0.10	9.40	0.20	0.00	0.20
6.85	0.10	0.00	0.10	9.45	0.21	0.00	0.21
6.90	0.11	0.00	0.11	9.50	0.21	0.00	0.21
6.95	0.11	0.00	0.11	9.55	0.22	0.00	0.22
7.00	0.11	0.00	0.11	9.60	0.22	0.00	0.22
7.05	0.11	0.00	0.11	9.65	0.23	0.00	0.23
7.10	0.11	0.00	0.11	9.70	0.23	0.00	0.23
7.15	0.11	0.00	0.11	9.75	0.24	0.00	0.24
7.20	0.11	0.00	0.11	9.80	0.24	0.00	0.24
7.25	0.12	0.00	0.12	9.85	0.25	0.00	0.25
7.30	0.12	0.00	0.12	9.90	0.25	0.00	0.25
7.35	0.12	0.00	0.12	9.95	0.26	0.00	0.26
7.40	0.12	0.00	0.12	10.00	0.26	0.00	0.26
7.45	0.12	0.00	0.12	10.05	0.27	0.00	0.27
7.50	0.12	0.00	0.12	10.10	0.27	0.00	0.27
7.55	0.12	0.00	0.12	10.15	0.28	0.00	0.28
7.60	0.13	0.00	0.13	10.20	0.28	0.00	0.28
7.65	0.13	0.00	0.13	10.25	0.29	0.00	0.29
7.70	0.13	0.00	0.13	10.30	0.29	0.00	0.29
7.75	0.13	0.00	0.13	10.35	0.30	0.00	0.30

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.30	0.00	0.30	13.00	0.74	0.00	0.74
10.45	0.31	0.00	0.31	13.05	0.68	0.00	0.68
10.50	0.31	0.00	0.31	13.10	0.64	0.00	0.64
10.55	0.33	0.00	0.33	13.15	0.61	0.00	0.61
10.60	0.35	0.00	0.35	13.20	0.58	0.00	0.58
10.65	0.37	0.00	0.37	13.25	0.55	0.00	0.55
10.70	0.38	0.00	0.38	13.30	0.53	0.00	0.53
10.75	0.40	0.00	0.40	13.35	0.50	0.00	0.50
10.80	0.42	0.00	0.42	13.40	0.48	0.00	0.48
10.85	0.44	0.00	0.44	13.45	0.45	0.00	0.45
10.90	0.45	0.00	0.45	13.50	0.44	0.00	0.44
10.95	0.48	0.00	0.48	13.55	0.41	0.00	0.41
11.00	0.49	0.00	0.49	13.60	0.39	0.00	0.39
11.05	0.53	0.00	0.53	13.65	0.38	0.00	0.38
11.10	0.56	0.00	0.56	13.70	0.37	0.00	0.37
11.15	0.60	0.00	0.60	13.75	0.36	0.00	0.36
11.20	0.62	0.00	0.62	13.80	0.35	0.00	0.35
11.25	0.67	0.00	0.67	13.85	0.35	0.00	0.35
11.30	0.69	0.00	0.69	13.90	0.34	0.00	0.34
11.35	0.74	0.00	0.74	13.95	0.33	0.00	0.33
11.40	0.77	0.00	0.77	14.00	0.33	0.00	0.33
11.45	0.80	0.00	0.80	14.05	0.32	0.00	0.32
11.50	0.83	0.00	0.83	14.10	0.32	0.00	0.32
11.55	1.05	0.00	1.05	14.15	0.31	0.00	0.31
11.60	1.20	0.00	1.20	14.20	0.30	0.00	0.30
11.65	1.29	0.00	1.29	14.25	0.30	0.00	0.30
11.70	1.34	0.00	1.34	14.30	0.29	0.00	0.29
11.75	1.60	0.00	1.60	14.35	0.29	0.00	0.29
11.80	1.77	0.00	1.77	14.40	0.28	0.00	0.28
11.85	2.18	0.00	2.18	14.45	0.28	0.00	0.28
11.90	2.44	0.00	2.44	14.50	0.27	0.00	0.27
11.95	3.45	0.00	3.45	14.55	0.26	0.00	0.26
12.00	4.08	0.00	4.08	14.60	0.26	0.00	0.26
12.05	5.77	0.00	5.77	14.65	0.25	0.00	0.25
12.10	**6.81**	0.00	**6.81**	14.70	0.25	0.00	0.25
12.15	**4.91**	0.00	**4.91**	14.75	0.24	0.00	0.24
12.20	3.62	0.00	3.62	14.80	0.24	0.00	0.24
12.25	2.83	0.00	2.83	14.85	0.23	0.00	0.23
12.30	2.46	0.00	2.46	14.90	0.23	0.00	0.23
12.35	2.08	0.00	2.08	14.95	0.22	0.00	0.22
12.40	1.86	0.00	1.86	15.00	0.22	0.00	0.22
12.45	1.73	0.00	1.73	15.05	0.21	0.00	0.21
12.50	1.66	0.00	1.66	15.10	0.21	0.00	0.21
12.55	1.40	0.00	1.40	15.15	0.20	0.00	0.20
12.60	1.22	0.00	1.22	15.20	0.20	0.00	0.20
12.65	1.12	0.00	1.12	15.25	0.20	0.00	0.20
12.70	1.06	0.00	1.06	15.30	0.20	0.00	0.20
12.75	0.99	0.00	0.99	15.35	0.20	0.00	0.20
12.80	0.94	0.00	0.94	15.40	0.19	0.00	0.19
12.85	0.88	0.00	0.88	15.45	0.19	0.00	0.19
12.90	0.83	0.00	0.83	15.50	0.19	0.00	0.19
12.95	0.77	0.00	0.77	15.55	0.19	0.00	0.19

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.19	0.00	0.19	18.20	0.12	0.00	0.12
15.65	0.19	0.00	0.19	18.25	0.11	0.00	0.11
15.70	0.18	0.00	0.18	18.30	0.11	0.00	0.11
15.75	0.18	0.00	0.18	18.35	0.11	0.00	0.11
15.80	0.18	0.00	0.18	18.40	0.11	0.00	0.11
15.85	0.18	0.00	0.18	18.45	0.11	0.00	0.11
15.90	0.18	0.00	0.18	18.50	0.11	0.00	0.11
15.95	0.18	0.00	0.18	18.55	0.11	0.00	0.11
16.00	0.18	0.00	0.18	18.60	0.11	0.00	0.11
16.05	0.17	0.00	0.17	18.65	0.11	0.00	0.11
16.10	0.17	0.00	0.17	18.70	0.11	0.00	0.11
16.15	0.17	0.00	0.17	18.75	0.11	0.00	0.11
16.20	0.17	0.00	0.17	18.80	0.11	0.00	0.11
16.25	0.17	0.00	0.17	18.85	0.11	0.00	0.11
16.30	0.17	0.00	0.17	18.90	0.11	0.00	0.11
16.35	0.17	0.00	0.17	18.95	0.11	0.00	0.11
16.40	0.17	0.00	0.17	19.00	0.11	0.00	0.11
16.45	0.16	0.00	0.16	19.05	0.11	0.00	0.11
16.50	0.16	0.00	0.16	19.10	0.11	0.00	0.11
16.55	0.16	0.00	0.16	19.15	0.11	0.00	0.11
16.60	0.16	0.00	0.16	19.20	0.11	0.00	0.11
16.65	0.16	0.00	0.16	19.25	0.11	0.00	0.11
16.70	0.16	0.00	0.16	19.30	0.11	0.00	0.11
16.75	0.15	0.00	0.15	19.35	0.11	0.00	0.11
16.80	0.15	0.00	0.15	19.40	0.11	0.00	0.11
16.85	0.15	0.00	0.15	19.45	0.11	0.00	0.11
16.90	0.15	0.00	0.15	19.50	0.11	0.00	0.11
16.95	0.15	0.00	0.15	19.55	0.11	0.00	0.11
17.00	0.15	0.00	0.15	19.60	0.10	0.00	0.10
17.05	0.15	0.00	0.15	19.65	0.10	0.00	0.10
17.10	0.15	0.00	0.15	19.70	0.10	0.00	0.10
17.15	0.14	0.00	0.14	19.75	0.10	0.00	0.10
17.20	0.14	0.00	0.14	19.80	0.10	0.00	0.10
17.25	0.14	0.00	0.14	19.85	0.10	0.00	0.10
17.30	0.14	0.00	0.14	19.90	0.10	0.00	0.10
17.35	0.14	0.00	0.14	19.95	0.10	0.00	0.10
17.40	0.14	0.00	0.14	20.00	0.10	0.00	0.10
17.45	0.14	0.00	0.14	20.05	0.10	0.00	0.10
17.50	0.13	0.00	0.13	20.10	0.10	0.00	0.10
17.55	0.13	0.00	0.13	20.15	0.10	0.00	0.10
17.60	0.13	0.00	0.13	20.20	0.10	0.00	0.10
17.65	0.13	0.00	0.13	20.25	0.10	0.00	0.10
17.70	0.13	0.00	0.13	20.30	0.10	0.00	0.10
17.75	0.13	0.00	0.13	20.35	0.10	0.00	0.10
17.80	0.13	0.00	0.13	20.40	0.10	0.00	0.10
17.85	0.12	0.00	0.12	20.45	0.10	0.00	0.10
17.90	0.12	0.00	0.12	20.50	0.10	0.00	0.10
17.95	0.12	0.00	0.12	20.55	0.10	0.00	0.10
18.00	0.12	0.00	0.12	20.60	0.10	0.00	0.10
18.05	0.12	0.00	0.12	20.65	0.10	0.00	0.10
18.10	0.12	0.00	0.12	20.70	0.10	0.00	0.10
18.15	0.12	0.00	0.12	20.75	0.10	0.00	0.10

Hydrograph for Link P1A: P1A (continued)

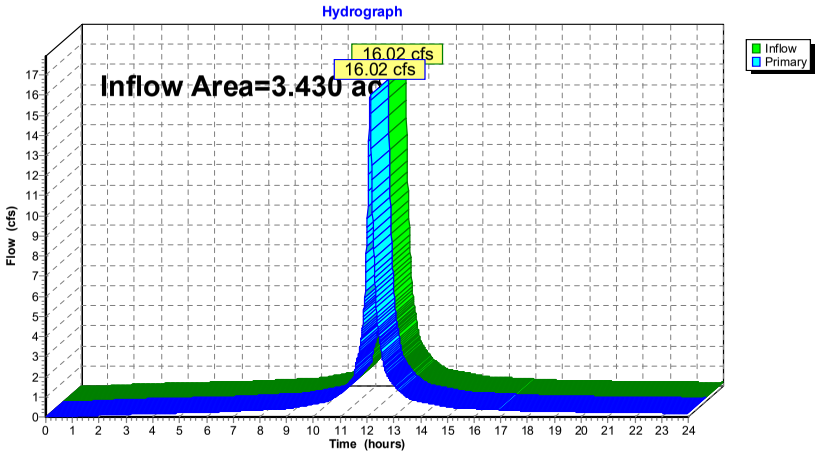
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.10	0.00	0.10	23.40	0.08	0.00	0.08
20.85	0.10	0.00	0.10	23.45	0.08	0.00	0.08
20.90	0.10	0.00	0.10	23.50	0.08	0.00	0.08
20.95	0.10	0.00	0.10	23.55	0.08	0.00	0.08
21.00	0.09	0.00	0.09	23.60	0.08	0.00	0.08
21.05	0.09	0.00	0.09	23.65	0.08	0.00	0.08
21.10	0.09	0.00	0.09	23.70	0.08	0.00	0.08
21.15	0.09	0.00	0.09	23.75	0.08	0.00	0.08
21.20	0.09	0.00	0.09	23.80	0.08	0.00	0.08
21.25	0.09	0.00	0.09	23.85	0.07	0.00	0.07
21.30	0.09	0.00	0.09	23.90	0.07	0.00	0.07
21.35	0.09	0.00	0.09	23.95	0.08	0.00	0.08
21.40	0.09	0.00	0.09	24.00	0.09	0.00	0.09
21.45	0.09	0.00	0.09				
21.50	0.09	0.00	0.09				
21.55	0.09	0.00	0.09				
21.60	0.09	0.00	0.09				
21.65	0.09	0.00	0.09				
21.70	0.09	0.00	0.09				
21.75	0.09	0.00	0.09				
21.80	0.09	0.00	0.09				
21.85	0.09	0.00	0.09				
21.90	0.09	0.00	0.09				
21.95	0.09	0.00	0.09				
22.00	0.09	0.00	0.09				
22.05	0.09	0.00	0.09				
22.10	0.09	0.00	0.09				
22.15	0.09	0.00	0.09				
22.20	0.09	0.00	0.09				
22.25	0.09	0.00	0.09				
22.30	0.09	0.00	0.09				
22.35	0.09	0.00	0.09				
22.40	0.08	0.00	0.08				
22.45	0.08	0.00	0.08				
22.50	0.08	0.00	0.08				
22.55	0.08	0.00	0.08				
22.60	0.08	0.00	0.08				
22.65	0.08	0.00	0.08				
22.70	0.08	0.00	0.08				
22.75	0.08	0.00	0.08				
22.80	0.08	0.00	0.08				
22.85	0.08	0.00	0.08				
22.90	0.08	0.00	0.08				
22.95	0.08	0.00	0.08				
23.00	0.08	0.00	0.08				
23.05	0.08	0.00	0.08				
23.10	0.08	0.00	0.08				
23.15	0.08	0.00	0.08				
23.20	0.08	0.00	0.08				
23.25	0.08	0.00	0.08				
23.30	0.08	0.00	0.08				
23.35	0.08	0.00	0.08				

Summary for Link P1B: P1B

Inflow Area = 3.430 ac, 82.22% Impervious, Inflow Depth > 4.51" for 10YR CURRENT event
Inflow = 16.02 cfs @ 12.12 hrs, Volume= 1.290 af
Primary = 16.02 cfs @ 12.12 hrs, Volume= 1.290 af, Atten= 0%, Lag= 0.0 min
Routed to Link PPOI-1 : PPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link P1B: P1B



Hydrograph for Link P1B: P1B

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.12	0.00	0.12
0.05	0.00	0.00	0.00	2.65	0.12	0.00	0.12
0.10	0.00	0.00	0.00	2.70	0.12	0.00	0.12
0.15	0.00	0.00	0.00	2.75	0.12	0.00	0.12
0.20	0.00	0.00	0.00	2.80	0.12	0.00	0.12
0.25	0.00	0.00	0.00	2.85	0.13	0.00	0.13
0.30	0.00	0.00	0.00	2.90	0.13	0.00	0.13
0.35	0.00	0.00	0.00	2.95	0.13	0.00	0.13
0.40	0.00	0.00	0.00	3.00	0.13	0.00	0.13
0.45	0.00	0.00	0.00	3.05	0.13	0.00	0.13
0.50	0.00	0.00	0.00	3.10	0.14	0.00	0.14
0.55	0.00	0.00	0.00	3.15	0.14	0.00	0.14
0.60	0.00	0.00	0.00	3.20	0.14	0.00	0.14
0.65	0.00	0.00	0.00	3.25	0.14	0.00	0.14
0.70	0.00	0.00	0.00	3.30	0.14	0.00	0.14
0.75	0.00	0.00	0.00	3.35	0.15	0.00	0.15
0.80	0.00	0.00	0.00	3.40	0.15	0.00	0.15
0.85	0.00	0.00	0.00	3.45	0.15	0.00	0.15
0.90	0.01	0.00	0.01	3.50	0.15	0.00	0.15
0.95	0.01	0.00	0.01	3.55	0.15	0.00	0.15
1.00	0.02	0.00	0.02	3.60	0.15	0.00	0.15
1.05	0.02	0.00	0.02	3.65	0.16	0.00	0.16
1.10	0.03	0.00	0.03	3.70	0.16	0.00	0.16
1.15	0.03	0.00	0.03	3.75	0.16	0.00	0.16
1.20	0.03	0.00	0.03	3.80	0.16	0.00	0.16
1.25	0.04	0.00	0.04	3.85	0.16	0.00	0.16
1.30	0.04	0.00	0.04	3.90	0.16	0.00	0.16
1.35	0.04	0.00	0.04	3.95	0.17	0.00	0.17
1.40	0.05	0.00	0.05	4.00	0.17	0.00	0.17
1.45	0.05	0.00	0.05	4.05	0.17	0.00	0.17
1.50	0.06	0.00	0.06	4.10	0.17	0.00	0.17
1.55	0.06	0.00	0.06	4.15	0.17	0.00	0.17
1.60	0.06	0.00	0.06	4.20	0.17	0.00	0.17
1.65	0.06	0.00	0.06	4.25	0.18	0.00	0.18
1.70	0.07	0.00	0.07	4.30	0.18	0.00	0.18
1.75	0.07	0.00	0.07	4.35	0.18	0.00	0.18
1.80	0.07	0.00	0.07	4.40	0.18	0.00	0.18
1.85	0.08	0.00	0.08	4.45	0.18	0.00	0.18
1.90	0.08	0.00	0.08	4.50	0.18	0.00	0.18
1.95	0.08	0.00	0.08	4.55	0.18	0.00	0.18
2.00	0.09	0.00	0.09	4.60	0.18	0.00	0.18
2.05	0.09	0.00	0.09	4.65	0.19	0.00	0.19
2.10	0.09	0.00	0.09	4.70	0.19	0.00	0.19
2.15	0.09	0.00	0.09	4.75	0.19	0.00	0.19
2.20	0.10	0.00	0.10	4.80	0.19	0.00	0.19
2.25	0.10	0.00	0.10	4.85	0.19	0.00	0.19
2.30	0.10	0.00	0.10	4.90	0.19	0.00	0.19
2.35	0.10	0.00	0.10	4.95	0.19	0.00	0.19
2.40	0.11	0.00	0.11	5.00	0.20	0.00	0.20
2.45	0.11	0.00	0.11	5.05	0.20	0.00	0.20
2.50	0.11	0.00	0.11	5.10	0.20	0.00	0.20
2.55	0.11	0.00	0.11	5.15	0.20	0.00	0.20

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.20	0.00	0.20	7.80	0.34	0.00	0.34
5.25	0.20	0.00	0.20	7.85	0.34	0.00	0.34
5.30	0.20	0.00	0.20	7.90	0.34	0.00	0.34
5.35	0.20	0.00	0.20	7.95	0.35	0.00	0.35
5.40	0.21	0.00	0.21	8.00	0.35	0.00	0.35
5.45	0.21	0.00	0.21	8.05	0.35	0.00	0.35
5.50	0.21	0.00	0.21	8.10	0.36	0.00	0.36
5.55	0.21	0.00	0.21	8.15	0.36	0.00	0.36
5.60	0.21	0.00	0.21	8.20	0.36	0.00	0.36
5.65	0.21	0.00	0.21	8.25	0.37	0.00	0.37
5.70	0.21	0.00	0.21	8.30	0.37	0.00	0.37
5.75	0.21	0.00	0.21	8.35	0.37	0.00	0.37
5.80	0.22	0.00	0.22	8.40	0.38	0.00	0.38
5.85	0.22	0.00	0.22	8.45	0.38	0.00	0.38
5.90	0.22	0.00	0.22	8.50	0.38	0.00	0.38
5.95	0.22	0.00	0.22	8.55	0.39	0.00	0.39
6.00	0.22	0.00	0.22	8.60	0.39	0.00	0.39
6.05	0.22	0.00	0.22	8.65	0.39	0.00	0.39
6.10	0.23	0.00	0.23	8.70	0.40	0.00	0.40
6.15	0.23	0.00	0.23	8.75	0.40	0.00	0.40
6.20	0.23	0.00	0.23	8.80	0.40	0.00	0.40
6.25	0.23	0.00	0.23	8.85	0.41	0.00	0.41
6.30	0.24	0.00	0.24	8.90	0.41	0.00	0.41
6.35	0.24	0.00	0.24	8.95	0.41	0.00	0.41
6.40	0.24	0.00	0.24	9.00	0.42	0.00	0.42
6.45	0.25	0.00	0.25	9.05	0.42	0.00	0.42
6.50	0.25	0.00	0.25	9.10	0.43	0.00	0.43
6.55	0.25	0.00	0.25	9.15	0.44	0.00	0.44
6.60	0.26	0.00	0.26	9.20	0.46	0.00	0.46
6.65	0.26	0.00	0.26	9.25	0.47	0.00	0.47
6.70	0.26	0.00	0.26	9.30	0.48	0.00	0.48
6.75	0.27	0.00	0.27	9.35	0.49	0.00	0.49
6.80	0.27	0.00	0.27	9.40	0.50	0.00	0.50
6.85	0.27	0.00	0.27	9.45	0.51	0.00	0.51
6.90	0.28	0.00	0.28	9.50	0.52	0.00	0.52
6.95	0.28	0.00	0.28	9.55	0.54	0.00	0.54
7.00	0.28	0.00	0.28	9.60	0.55	0.00	0.55
7.05	0.29	0.00	0.29	9.65	0.56	0.00	0.56
7.10	0.29	0.00	0.29	9.70	0.57	0.00	0.57
7.15	0.29	0.00	0.29	9.75	0.58	0.00	0.58
7.20	0.30	0.00	0.30	9.80	0.60	0.00	0.60
7.25	0.30	0.00	0.30	9.85	0.61	0.00	0.61
7.30	0.30	0.00	0.30	9.90	0.62	0.00	0.62
7.35	0.31	0.00	0.31	9.95	0.63	0.00	0.63
7.40	0.31	0.00	0.31	10.00	0.64	0.00	0.64
7.45	0.31	0.00	0.31	10.05	0.66	0.00	0.66
7.50	0.32	0.00	0.32	10.10	0.67	0.00	0.67
7.55	0.32	0.00	0.32	10.15	0.68	0.00	0.68
7.60	0.32	0.00	0.32	10.20	0.69	0.00	0.69
7.65	0.33	0.00	0.33	10.25	0.70	0.00	0.70
7.70	0.33	0.00	0.33	10.30	0.71	0.00	0.71
7.75	0.33	0.00	0.33	10.35	0.73	0.00	0.73

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.74	0.00	0.74	13.00	1.60	0.00	1.60
10.45	0.75	0.00	0.75	13.05	1.51	0.00	1.51
10.50	0.76	0.00	0.76	13.10	1.42	0.00	1.42
10.55	0.79	0.00	0.79	13.15	1.35	0.00	1.35
10.60	0.83	0.00	0.83	13.20	1.30	0.00	1.30
10.65	0.87	0.00	0.87	13.25	1.24	0.00	1.24
10.70	0.91	0.00	0.91	13.30	1.19	0.00	1.19
10.75	0.95	0.00	0.95	13.35	1.14	0.00	1.14
10.80	1.00	0.00	1.00	13.40	1.09	0.00	1.09
10.85	1.04	0.00	1.04	13.45	1.04	0.00	1.04
10.90	1.09	0.00	1.09	13.50	1.00	0.00	1.00
10.95	1.13	0.00	1.13	13.55	0.95	0.00	0.95
11.00	1.18	0.00	1.18	13.60	0.90	0.00	0.90
11.05	1.24	0.00	1.24	13.65	0.87	0.00	0.87
11.10	1.32	0.00	1.32	13.70	0.85	0.00	0.85
11.15	1.40	0.00	1.40	13.75	0.83	0.00	0.83
11.20	1.48	0.00	1.48	13.80	0.81	0.00	0.81
11.25	1.56	0.00	1.56	13.85	0.80	0.00	0.80
11.30	1.64	0.00	1.64	13.90	0.79	0.00	0.79
11.35	1.73	0.00	1.73	13.95	0.78	0.00	0.78
11.40	1.81	0.00	1.81	14.00	0.76	0.00	0.76
11.45	1.89	0.00	1.89	14.05	0.75	0.00	0.75
11.50	1.96	0.00	1.96	14.10	0.74	0.00	0.74
11.55	2.28	0.00	2.28	14.15	0.73	0.00	0.73
11.60	2.71	0.00	2.71	14.20	0.71	0.00	0.71
11.65	2.98	0.00	2.98	14.25	0.70	0.00	0.70
11.70	3.16	0.00	3.16	14.30	0.69	0.00	0.69
11.75	3.57	0.00	3.57	14.35	0.68	0.00	0.68
11.80	4.08	0.00	4.08	14.40	0.66	0.00	0.66
11.85	4.80	0.00	4.80	14.45	0.65	0.00	0.65
11.90	5.61	0.00	5.61	14.50	0.64	0.00	0.64
11.95	7.21	0.00	7.21	14.55	0.63	0.00	0.63
12.00	9.17	0.00	9.17	14.60	0.61	0.00	0.61
12.05	12.10	0.00	12.10	14.65	0.60	0.00	0.60
12.10	**15.46**	0.00	**15.46**	14.70	0.59	0.00	0.59
12.15	**14.22**	0.00	**14.22**	14.75	0.58	0.00	0.58
12.20	10.64	0.00	10.64	14.80	0.56	0.00	0.56
12.25	8.32	0.00	8.32	14.85	0.55	0.00	0.55
12.30	6.65	0.00	6.65	14.90	0.54	0.00	0.54
12.35	5.41	0.00	5.41	14.95	0.52	0.00	0.52
12.40	4.46	0.00	4.46	15.00	0.51	0.00	0.51
12.45	3.95	0.00	3.95	15.05	0.50	0.00	0.50
12.50	3.64	0.00	3.64	15.10	0.49	0.00	0.49
12.55	3.20	0.00	3.20	15.15	0.48	0.00	0.48
12.60	2.70	0.00	2.70	15.20	0.47	0.00	0.47
12.65	2.41	0.00	2.41	15.25	0.47	0.00	0.47
12.70	2.23	0.00	2.23	15.30	0.46	0.00	0.46
12.75	2.09	0.00	2.09	15.35	0.46	0.00	0.46
12.80	1.98	0.00	1.98	15.40	0.46	0.00	0.46
12.85	1.88	0.00	1.88	15.45	0.45	0.00	0.45
12.90	1.78	0.00	1.78	15.50	0.45	0.00	0.45
12.95	1.69	0.00	1.69	15.55	0.45	0.00	0.45

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.44	0.00	0.44	18.20	0.27	0.00	0.27
15.65	0.44	0.00	0.44	18.25	0.27	0.00	0.27
15.70	0.44	0.00	0.44	18.30	0.27	0.00	0.27
15.75	0.43	0.00	0.43	18.35	0.27	0.00	0.27
15.80	0.43	0.00	0.43	18.40	0.27	0.00	0.27
15.85	0.43	0.00	0.43	18.45	0.27	0.00	0.27
15.90	0.42	0.00	0.42	18.50	0.27	0.00	0.27
15.95	0.42	0.00	0.42	18.55	0.27	0.00	0.27
16.00	0.42	0.00	0.42	18.60	0.27	0.00	0.27
16.05	0.41	0.00	0.41	18.65	0.27	0.00	0.27
16.10	0.41	0.00	0.41	18.70	0.26	0.00	0.26
16.15	0.41	0.00	0.41	18.75	0.26	0.00	0.26
16.20	0.40	0.00	0.40	18.80	0.26	0.00	0.26
16.25	0.40	0.00	0.40	18.85	0.26	0.00	0.26
16.30	0.40	0.00	0.40	18.90	0.26	0.00	0.26
16.35	0.39	0.00	0.39	18.95	0.26	0.00	0.26
16.40	0.39	0.00	0.39	19.00	0.26	0.00	0.26
16.45	0.39	0.00	0.39	19.05	0.26	0.00	0.26
16.50	0.38	0.00	0.38	19.10	0.26	0.00	0.26
16.55	0.38	0.00	0.38	19.15	0.26	0.00	0.26
16.60	0.38	0.00	0.38	19.20	0.26	0.00	0.26
16.65	0.37	0.00	0.37	19.25	0.26	0.00	0.26
16.70	0.37	0.00	0.37	19.30	0.25	0.00	0.25
16.75	0.37	0.00	0.37	19.35	0.25	0.00	0.25
16.80	0.36	0.00	0.36	19.40	0.25	0.00	0.25
16.85	0.36	0.00	0.36	19.45	0.25	0.00	0.25
16.90	0.36	0.00	0.36	19.50	0.25	0.00	0.25
16.95	0.35	0.00	0.35	19.55	0.25	0.00	0.25
17.00	0.35	0.00	0.35	19.60	0.25	0.00	0.25
17.05	0.35	0.00	0.35	19.65	0.25	0.00	0.25
17.10	0.34	0.00	0.34	19.70	0.25	0.00	0.25
17.15	0.34	0.00	0.34	19.75	0.25	0.00	0.25
17.20	0.34	0.00	0.34	19.80	0.25	0.00	0.25
17.25	0.33	0.00	0.33	19.85	0.25	0.00	0.25
17.30	0.33	0.00	0.33	19.90	0.24	0.00	0.24
17.35	0.33	0.00	0.33	19.95	0.24	0.00	0.24
17.40	0.32	0.00	0.32	20.00	0.24	0.00	0.24
17.45	0.32	0.00	0.32	20.05	0.24	0.00	0.24
17.50	0.32	0.00	0.32	20.10	0.24	0.00	0.24
17.55	0.31	0.00	0.31	20.15	0.24	0.00	0.24
17.60	0.31	0.00	0.31	20.20	0.24	0.00	0.24
17.65	0.31	0.00	0.31	20.25	0.24	0.00	0.24
17.70	0.30	0.00	0.30	20.30	0.24	0.00	0.24
17.75	0.30	0.00	0.30	20.35	0.24	0.00	0.24
17.80	0.30	0.00	0.30	20.40	0.24	0.00	0.24
17.85	0.29	0.00	0.29	20.45	0.23	0.00	0.23
17.90	0.29	0.00	0.29	20.50	0.23	0.00	0.23
17.95	0.29	0.00	0.29	20.55	0.23	0.00	0.23
18.00	0.28	0.00	0.28	20.60	0.23	0.00	0.23
18.05	0.28	0.00	0.28	20.65	0.23	0.00	0.23
18.10	0.28	0.00	0.28	20.70	0.23	0.00	0.23
18.15	0.27	0.00	0.27	20.75	0.23	0.00	0.23

Hydrograph for Link P1B: P1B (continued)

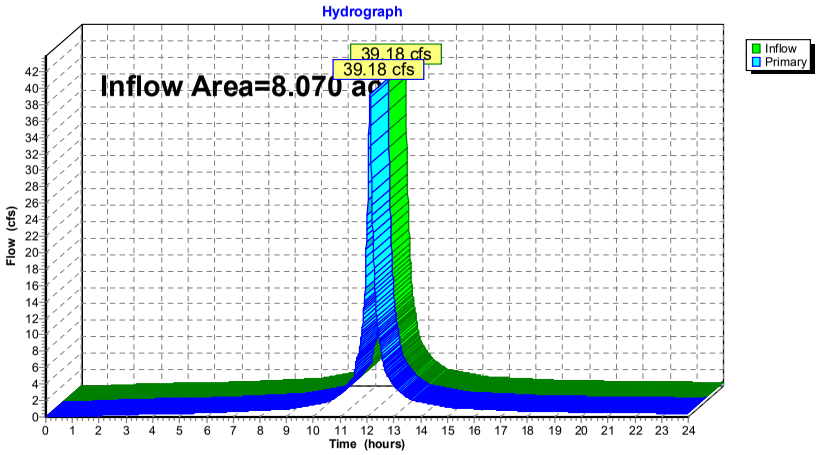
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.23	0.00	0.23	23.40	0.19	0.00	0.19
20.85	0.23	0.00	0.23	23.45	0.19	0.00	0.19
20.90	0.23	0.00	0.23	23.50	0.18	0.00	0.18
20.95	0.23	0.00	0.23	23.55	0.18	0.00	0.18
21.00	0.23	0.00	0.23	23.60	0.18	0.00	0.18
21.05	0.22	0.00	0.22	23.65	0.18	0.00	0.18
21.10	0.22	0.00	0.22	23.70	0.18	0.00	0.18
21.15	0.22	0.00	0.22	23.75	0.18	0.00	0.18
21.20	0.22	0.00	0.22	23.80	0.18	0.00	0.18
21.25	0.22	0.00	0.22	23.85	0.18	0.00	0.18
21.30	0.22	0.00	0.22	23.90	0.18	0.00	0.18
21.35	0.22	0.00	0.22	23.95	0.19	0.00	0.19
21.40	0.22	0.00	0.22	24.00	0.20	0.00	0.20
21.45	0.22	0.00	0.22				
21.50	0.22	0.00	0.22				
21.55	0.22	0.00	0.22				
21.60	0.22	0.00	0.22				
21.65	0.21	0.00	0.21				
21.70	0.21	0.00	0.21				
21.75	0.21	0.00	0.21				
21.80	0.21	0.00	0.21				
21.85	0.21	0.00	0.21				
21.90	0.21	0.00	0.21				
21.95	0.21	0.00	0.21				
22.00	0.21	0.00	0.21				
22.05	0.21	0.00	0.21				
22.10	0.21	0.00	0.21				
22.15	0.21	0.00	0.21				
22.20	0.21	0.00	0.21				
22.25	0.21	0.00	0.21				
22.30	0.20	0.00	0.20				
22.35	0.20	0.00	0.20				
22.40	0.20	0.00	0.20				
22.45	0.20	0.00	0.20				
22.50	0.20	0.00	0.20				
22.55	0.20	0.00	0.20				
22.60	0.20	0.00	0.20				
22.65	0.20	0.00	0.20				
22.70	0.20	0.00	0.20				
22.75	0.20	0.00	0.20				
22.80	0.20	0.00	0.20				
22.85	0.19	0.00	0.19				
22.90	0.19	0.00	0.19				
22.95	0.19	0.00	0.19				
23.00	0.19	0.00	0.19				
23.05	0.19	0.00	0.19				
23.10	0.19	0.00	0.19				
23.15	0.19	0.00	0.19				
23.20	0.19	0.00	0.19				
23.25	0.19	0.00	0.19				
23.30	0.19	0.00	0.19				
23.35	0.19	0.00	0.19				

Summary for Link PPOI-1: PPOI-1

Inflow Area = 8.070 ac, 81.04% Impervious, Inflow Depth > 4.61" for 10YR CURRENT event
Inflow = 39.18 cfs @ 12.11 hrs, Volume= 3.102 af
Primary = 39.18 cfs @ 12.11 hrs, Volume= 3.102 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link PPOI-1: PPOI-1



Hydrograph for Link PPOI-1: PPOI-1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.26	0.00	0.26
0.05	0.00	0.00	0.00	2.65	0.26	0.00	0.26
0.10	0.00	0.00	0.00	2.70	0.27	0.00	0.27
0.15	0.00	0.00	0.00	2.75	0.27	0.00	0.27
0.20	0.00	0.00	0.00	2.80	0.28	0.00	0.28
0.25	0.00	0.00	0.00	2.85	0.28	0.00	0.28
0.30	0.00	0.00	0.00	2.90	0.29	0.00	0.29
0.35	0.00	0.00	0.00	2.95	0.29	0.00	0.29
0.40	0.00	0.00	0.00	3.00	0.30	0.00	0.30
0.45	0.00	0.00	0.00	3.05	0.30	0.00	0.30
0.50	0.00	0.00	0.00	3.10	0.31	0.00	0.31
0.55	0.00	0.00	0.00	3.15	0.31	0.00	0.31
0.60	0.00	0.00	0.00	3.20	0.31	0.00	0.31
0.65	0.00	0.00	0.00	3.25	0.32	0.00	0.32
0.70	0.00	0.00	0.00	3.30	0.32	0.00	0.32
0.75	0.00	0.00	0.00	3.35	0.33	0.00	0.33
0.80	0.00	0.00	0.00	3.40	0.33	0.00	0.33
0.85	0.01	0.00	0.01	3.45	0.34	0.00	0.34
0.90	0.02	0.00	0.02	3.50	0.34	0.00	0.34
0.95	0.03	0.00	0.03	3.55	0.34	0.00	0.34
1.00	0.04	0.00	0.04	3.60	0.35	0.00	0.35
1.05	0.05	0.00	0.05	3.65	0.35	0.00	0.35
1.10	0.06	0.00	0.06	3.70	0.35	0.00	0.35
1.15	0.07	0.00	0.07	3.75	0.36	0.00	0.36
1.20	0.08	0.00	0.08	3.80	0.36	0.00	0.36
1.25	0.08	0.00	0.08	3.85	0.37	0.00	0.37
1.30	0.09	0.00	0.09	3.90	0.37	0.00	0.37
1.35	0.10	0.00	0.10	3.95	0.37	0.00	0.37
1.40	0.11	0.00	0.11	4.00	0.38	0.00	0.38
1.45	0.12	0.00	0.12	4.05	0.38	0.00	0.38
1.50	0.13	0.00	0.13	4.10	0.38	0.00	0.38
1.55	0.13	0.00	0.13	4.15	0.39	0.00	0.39
1.60	0.14	0.00	0.14	4.20	0.39	0.00	0.39
1.65	0.15	0.00	0.15	4.25	0.39	0.00	0.39
1.70	0.15	0.00	0.15	4.30	0.40	0.00	0.40
1.75	0.16	0.00	0.16	4.35	0.40	0.00	0.40
1.80	0.17	0.00	0.17	4.40	0.40	0.00	0.40
1.85	0.17	0.00	0.17	4.45	0.41	0.00	0.41
1.90	0.18	0.00	0.18	4.50	0.41	0.00	0.41
1.95	0.19	0.00	0.19	4.55	0.41	0.00	0.41
2.00	0.19	0.00	0.19	4.60	0.42	0.00	0.42
2.05	0.20	0.00	0.20	4.65	0.42	0.00	0.42
2.10	0.20	0.00	0.20	4.70	0.42	0.00	0.42
2.15	0.21	0.00	0.21	4.75	0.42	0.00	0.42
2.20	0.22	0.00	0.22	4.80	0.43	0.00	0.43
2.25	0.22	0.00	0.22	4.85	0.43	0.00	0.43
2.30	0.23	0.00	0.23	4.90	0.43	0.00	0.43
2.35	0.23	0.00	0.23	4.95	0.44	0.00	0.44
2.40	0.24	0.00	0.24	5.00	0.44	0.00	0.44
2.45	0.24	0.00	0.24	5.05	0.44	0.00	0.44
2.50	0.25	0.00	0.25	5.10	0.45	0.00	0.45
2.55	0.25	0.00	0.25	5.15	0.45	0.00	0.45

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.45	0.00	0.45	7.80	0.78	0.00	0.78
5.25	0.45	0.00	0.45	7.85	0.79	0.00	0.79
5.30	0.46	0.00	0.46	7.90	0.79	0.00	0.79
5.35	0.46	0.00	0.46	7.95	0.80	0.00	0.80
5.40	0.46	0.00	0.46	8.00	0.81	0.00	0.81
5.45	0.47	0.00	0.47	8.05	0.82	0.00	0.82
5.50	0.47	0.00	0.47	8.10	0.83	0.00	0.83
5.55	0.47	0.00	0.47	8.15	0.83	0.00	0.83
5.60	0.47	0.00	0.47	8.20	0.84	0.00	0.84
5.65	0.48	0.00	0.48	8.25	0.85	0.00	0.85
5.70	0.48	0.00	0.48	8.30	0.86	0.00	0.86
5.75	0.48	0.00	0.48	8.35	0.87	0.00	0.87
5.80	0.49	0.00	0.49	8.40	0.87	0.00	0.87
5.85	0.49	0.00	0.49	8.45	0.88	0.00	0.88
5.90	0.49	0.00	0.49	8.50	0.89	0.00	0.89
5.95	0.49	0.00	0.49	8.55	0.90	0.00	0.90
6.00	0.50	0.00	0.50	8.60	0.91	0.00	0.91
6.05	0.50	0.00	0.50	8.65	0.92	0.00	0.92
6.10	0.51	0.00	0.51	8.70	0.93	0.00	0.93
6.15	0.52	0.00	0.52	8.75	0.94	0.00	0.94
6.20	0.52	0.00	0.52	8.80	0.94	0.00	0.94
6.25	0.53	0.00	0.53	8.85	0.95	0.00	0.95
6.30	0.54	0.00	0.54	8.90	0.96	0.00	0.96
6.35	0.55	0.00	0.55	8.95	0.97	0.00	0.97
6.40	0.55	0.00	0.55	9.00	0.98	0.00	0.98
6.45	0.56	0.00	0.56	9.05	1.00	0.00	1.00
6.50	0.57	0.00	0.57	9.10	1.02	0.00	1.02
6.55	0.58	0.00	0.58	9.15	1.04	0.00	1.04
6.60	0.59	0.00	0.59	9.20	1.07	0.00	1.07
6.65	0.59	0.00	0.59	9.25	1.10	0.00	1.10
6.70	0.60	0.00	0.60	9.30	1.13	0.00	1.13
6.75	0.61	0.00	0.61	9.35	1.16	0.00	1.16
6.80	0.61	0.00	0.61	9.40	1.18	0.00	1.18
6.85	0.62	0.00	0.62	9.45	1.21	0.00	1.21
6.90	0.63	0.00	0.63	9.50	1.24	0.00	1.24
6.95	0.64	0.00	0.64	9.55	1.27	0.00	1.27
7.00	0.65	0.00	0.65	9.60	1.30	0.00	1.30
7.05	0.66	0.00	0.66	9.65	1.33	0.00	1.33
7.10	0.66	0.00	0.66	9.70	1.35	0.00	1.35
7.15	0.67	0.00	0.67	9.75	1.38	0.00	1.38
7.20	0.68	0.00	0.68	9.80	1.41	0.00	1.41
7.25	0.69	0.00	0.69	9.85	1.44	0.00	1.44
7.30	0.69	0.00	0.69	9.90	1.47	0.00	1.47
7.35	0.70	0.00	0.70	9.95	1.50	0.00	1.50
7.40	0.71	0.00	0.71	10.00	1.53	0.00	1.53
7.45	0.72	0.00	0.72	10.05	1.56	0.00	1.56
7.50	0.73	0.00	0.73	10.10	1.58	0.00	1.58
7.55	0.74	0.00	0.74	10.15	1.62	0.00	1.62
7.60	0.74	0.00	0.74	10.20	1.64	0.00	1.64
7.65	0.75	0.00	0.75	10.25	1.68	0.00	1.68
7.70	0.76	0.00	0.76	10.30	1.70	0.00	1.70
7.75	0.77	0.00	0.77	10.35	1.73	0.00	1.73

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	1.76	0.00	1.76	13.00	3.93	0.00	3.93
10.45	1.79	0.00	1.79	13.05	3.68	0.00	3.68
10.50	1.82	0.00	1.82	13.10	3.48	0.00	3.48
10.55	1.90	0.00	1.90	13.15	3.30	0.00	3.30
10.60	1.98	0.00	1.98	13.20	3.16	0.00	3.16
10.65	2.09	0.00	2.09	13.25	3.02	0.00	3.02
10.70	2.19	0.00	2.19	13.30	2.90	0.00	2.90
10.75	2.30	0.00	2.30	13.35	2.77	0.00	2.77
10.80	2.40	0.00	2.40	13.40	2.66	0.00	2.66
10.85	2.52	0.00	2.52	13.45	2.53	0.00	2.53
10.90	2.62	0.00	2.62	13.50	2.42	0.00	2.42
10.95	2.74	0.00	2.74	13.55	2.29	0.00	2.29
11.00	2.84	0.00	2.84	13.60	2.19	0.00	2.19
11.05	3.01	0.00	3.01	13.65	2.11	0.00	2.11
11.10	3.18	0.00	3.18	13.70	2.06	0.00	2.06
11.15	3.39	0.00	3.39	13.75	2.01	0.00	2.01
11.20	3.58	0.00	3.58	13.80	1.98	0.00	1.98
11.25	3.80	0.00	3.80	13.85	1.94	0.00	1.94
11.30	3.99	0.00	3.99	13.90	1.92	0.00	1.92
11.35	4.21	0.00	4.21	13.95	1.88	0.00	1.88
11.40	4.40	0.00	4.40	14.00	1.85	0.00	1.85
11.45	4.60	0.00	4.60	14.05	1.82	0.00	1.82
11.50	4.76	0.00	4.76	14.10	1.79	0.00	1.79
11.55	5.68	0.00	5.68	14.15	1.76	0.00	1.76
11.60	6.68	0.00	6.68	14.20	1.73	0.00	1.73
11.65	7.30	0.00	7.30	14.25	1.69	0.00	1.69
11.70	7.70	0.00	7.70	14.30	1.67	0.00	1.67
11.75	8.85	0.00	8.85	14.35	1.63	0.00	1.63
11.80	10.02	0.00	10.02	14.40	1.60	0.00	1.60
11.85	11.96	0.00	11.96	14.45	1.57	0.00	1.57
11.90	13.80	0.00	13.80	14.50	1.54	0.00	1.54
11.95	18.24	0.00	18.24	14.55	1.51	0.00	1.51
12.00	22.75	0.00	22.75	14.60	1.48	0.00	1.48
12.05	30.65	0.00	30.65	14.65	1.45	0.00	1.45
12.10	**38.34**	0.00	**38.34**	14.70	1.42	0.00	1.42
12.15	**33.07**	0.00	**33.07**	14.75	1.39	0.00	1.39
12.20	24.59	0.00	24.59	14.80	1.36	0.00	1.36
12.25	19.11	0.00	19.11	14.85	1.33	0.00	1.33
12.30	15.49	0.00	15.49	14.90	1.30	0.00	1.30
12.35	12.69	0.00	12.69	14.95	1.27	0.00	1.27
12.40	10.67	0.00	10.67	15.00	1.24	0.00	1.24
12.45	9.56	0.00	9.56	15.05	1.21	0.00	1.21
12.50	8.92	0.00	8.92	15.10	1.18	0.00	1.18
12.55	7.72	0.00	7.72	15.15	1.16	0.00	1.16
12.60	6.56	0.00	6.56	15.20	1.14	0.00	1.14
12.65	5.89	0.00	5.89	15.25	1.13	0.00	1.13
12.70	5.48	0.00	5.48	15.30	1.12	0.00	1.12
12.75	5.14	0.00	5.14	15.35	1.11	0.00	1.11
12.80	4.87	0.00	4.87	15.40	1.11	0.00	1.11
12.85	4.61	0.00	4.61	15.45	1.10	0.00	1.10
12.90	4.39	0.00	4.39	15.50	1.09	0.00	1.09
12.95	4.14	0.00	4.14	15.55	1.08	0.00	1.08

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	1.07	0.00	1.07	18.20	0.66	0.00	0.66
15.65	1.07	0.00	1.07	18.25	0.66	0.00	0.66
15.70	1.06	0.00	1.06	18.30	0.65	0.00	0.65
15.75	1.05	0.00	1.05	18.35	0.65	0.00	0.65
15.80	1.04	0.00	1.04	18.40	0.65	0.00	0.65
15.85	1.03	0.00	1.03	18.45	0.65	0.00	0.65
15.90	1.03	0.00	1.03	18.50	0.65	0.00	0.65
15.95	1.02	0.00	1.02	18.55	0.64	0.00	0.64
16.00	1.01	0.00	1.01	18.60	0.64	0.00	0.64
16.05	1.00	0.00	1.00	18.65	0.64	0.00	0.64
16.10	0.99	0.00	0.99	18.70	0.64	0.00	0.64
16.15	0.98	0.00	0.98	18.75	0.64	0.00	0.64
16.20	0.98	0.00	0.98	18.80	0.63	0.00	0.63
16.25	0.97	0.00	0.97	18.85	0.63	0.00	0.63
16.30	0.96	0.00	0.96	18.90	0.63	0.00	0.63
16.35	0.95	0.00	0.95	18.95	0.63	0.00	0.63
16.40	0.94	0.00	0.94	19.00	0.63	0.00	0.63
16.45	0.93	0.00	0.93	19.05	0.62	0.00	0.62
16.50	0.93	0.00	0.93	19.10	0.62	0.00	0.62
16.55	0.92	0.00	0.92	19.15	0.62	0.00	0.62
16.60	0.91	0.00	0.91	19.20	0.62	0.00	0.62
16.65	0.90	0.00	0.90	19.25	0.62	0.00	0.62
16.70	0.90	0.00	0.90	19.30	0.61	0.00	0.61
16.75	0.89	0.00	0.89	19.35	0.61	0.00	0.61
16.80	0.88	0.00	0.88	19.40	0.61	0.00	0.61
16.85	0.87	0.00	0.87	19.45	0.61	0.00	0.61
16.90	0.86	0.00	0.86	19.50	0.61	0.00	0.61
16.95	0.85	0.00	0.85	19.55	0.60	0.00	0.60
17.00	0.85	0.00	0.85	19.60	0.60	0.00	0.60
17.05	0.84	0.00	0.84	19.65	0.60	0.00	0.60
17.10	0.83	0.00	0.83	19.70	0.60	0.00	0.60
17.15	0.82	0.00	0.82	19.75	0.60	0.00	0.60
17.20	0.82	0.00	0.82	19.80	0.60	0.00	0.60
17.25	0.81	0.00	0.81	19.85	0.59	0.00	0.59
17.30	0.80	0.00	0.80	19.90	0.59	0.00	0.59
17.35	0.79	0.00	0.79	19.95	0.59	0.00	0.59
17.40	0.78	0.00	0.78	20.00	0.59	0.00	0.59
17.45	0.77	0.00	0.77	20.05	0.58	0.00	0.58
17.50	0.77	0.00	0.77	20.10	0.58	0.00	0.58
17.55	0.76	0.00	0.76	20.15	0.58	0.00	0.58
17.60	0.75	0.00	0.75	20.20	0.58	0.00	0.58
17.65	0.74	0.00	0.74	20.25	0.57	0.00	0.57
17.70	0.73	0.00	0.73	20.30	0.57	0.00	0.57
17.75	0.72	0.00	0.72	20.35	0.57	0.00	0.57
17.80	0.72	0.00	0.72	20.40	0.57	0.00	0.57
17.85	0.71	0.00	0.71	20.45	0.57	0.00	0.57
17.90	0.70	0.00	0.70	20.50	0.56	0.00	0.56
17.95	0.69	0.00	0.69	20.55	0.56	0.00	0.56
18.00	0.68	0.00	0.68	20.60	0.56	0.00	0.56
18.05	0.68	0.00	0.68	20.65	0.56	0.00	0.56
18.10	0.67	0.00	0.67	20.70	0.56	0.00	0.56
18.15	0.66	0.00	0.66	20.75	0.55	0.00	0.55

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.55	0.00	0.55	23.40	0.45	0.00	0.45
20.85	0.55	0.00	0.55	23.45	0.45	0.00	0.45
20.90	0.55	0.00	0.55	23.50	0.44	0.00	0.44
20.95	0.55	0.00	0.55	23.55	0.44	0.00	0.44
21.00	0.54	0.00	0.54	23.60	0.44	0.00	0.44
21.05	0.54	0.00	0.54	23.65	0.44	0.00	0.44
21.10	0.54	0.00	0.54	23.70	0.44	0.00	0.44
21.15	0.54	0.00	0.54	23.75	0.43	0.00	0.43
21.20	0.54	0.00	0.54	23.80	0.43	0.00	0.43
21.25	0.54	0.00	0.54	23.85	0.43	0.00	0.43
21.30	0.53	0.00	0.53	23.90	0.43	0.00	0.43
21.35	0.53	0.00	0.53	23.95	0.46	0.00	0.46
21.40	0.53	0.00	0.53	24.00	0.49	0.00	0.49
21.45	0.53	0.00	0.53				
21.50	0.52	0.00	0.52				
21.55	0.52	0.00	0.52				
21.60	0.52	0.00	0.52				
21.65	0.52	0.00	0.52				
21.70	0.52	0.00	0.52				
21.75	0.51	0.00	0.51				
21.80	0.51	0.00	0.51				
21.85	0.51	0.00	0.51				
21.90	0.51	0.00	0.51				
21.95	0.51	0.00	0.51				
22.00	0.50	0.00	0.50				
22.05	0.50	0.00	0.50				
22.10	0.50	0.00	0.50				
22.15	0.50	0.00	0.50				
22.20	0.50	0.00	0.50				
22.25	0.50	0.00	0.50				
22.30	0.49	0.00	0.49				
22.35	0.49	0.00	0.49				
22.40	0.49	0.00	0.49				
22.45	0.48	0.00	0.48				
22.50	0.48	0.00	0.48				
22.55	0.48	0.00	0.48				
22.60	0.48	0.00	0.48				
22.65	0.48	0.00	0.48				
22.70	0.48	0.00	0.48				
22.75	0.47	0.00	0.47				
22.80	0.47	0.00	0.47				
22.85	0.47	0.00	0.47				
22.90	0.47	0.00	0.47				
22.95	0.47	0.00	0.47				
23.00	0.47	0.00	0.47				
23.05	0.46	0.00	0.46				
23.10	0.46	0.00	0.46				
23.15	0.46	0.00	0.46				
23.20	0.45	0.00	0.45				
23.25	0.45	0.00	0.45				
23.30	0.45	0.00	0.45				
23.35	0.45	0.00	0.45				

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment PDA 4 Perv: PDA4 PERV Runoff Area=0.110 ac 0.00% Impervious Runoff Depth>4.62"
Flow Length=117' Tc=1.2 min CN=84 Runoff=0.72 cfs 0.042 af

Subcatchment PDA1AIMP: PDA1A IMP Runoff Area=1.110 ac 100.00% Impervious Runoff Depth>6.21"
Flow Length=332' Tc=2.3 min CN=98 Runoff=7.95 cfs 0.574 af

Subcatchment PDA1APERV: PDA-1APERV Runoff Area=0.270 ac 0.00% Impervious Runoff Depth>4.59"
Flow Length=518' Tc=14.3 min CN=84 Runoff=0.86 cfs 0.103 af

Subcatchment PDA1B IMP: PDA1B IMP Runoff Area=2.680 ac 93.66% Impervious Runoff Depth>6.20"
Flow Length=618' Tc=4.1 min CN=98 Runoff=17.02 cfs 1.385 af

Subcatchment PDA1B PERV: PDA-1B PERV Runoff Area=0.440 ac 0.00% Impervious Runoff Depth>2.04"
Flow Length=761' Tc=5.5 min CN=58 Runoff=0.93 cfs 0.075 af

Subcatchment PDA2 IMP: PDA2 IMP Runoff Area=0.310 ac 100.00% Impervious Runoff Depth>6.21"
Flow Length=351' Tc=2.3 min CN=98 Runoff=2.22 cfs 0.160 af

Subcatchment PDA3 IMP: PDA3 IMP Runoff Area=1.110 ac 100.00% Impervious Runoff Depth>6.20"
Flow Length=804' Tc=4.8 min CN=98 Runoff=6.72 cfs 0.574 af

Subcatchment PDA3 PERV: PDA3 PERV Runoff Area=0.540 ac 0.00% Impervious Runoff Depth>4.61"
Flow Length=131' Tc=3.6 min CN=84 Runoff=3.01 cfs 0.208 af

Subcatchment PDA4 IMP: PDA4 IMP Runoff Area=1.500 ac 100.00% Impervious Runoff Depth>6.21"
Flow Length=388' Tc=3.0 min CN=98 Runoff=10.27 cfs 0.776 af

Link P1A: P1A Inflow=8.54 cfs 0.678 af
Primary=8.54 cfs 0.678 af

Link P1B: P1B Inflow=20.03 cfs 1.620 af
Primary=20.03 cfs 1.620 af

Link PPOI-1: PPOI-1 Inflow=48.89 cfs 3.897 af
Primary=48.89 cfs 3.897 af

Total Runoff Area = 8.070 ac Runoff Volume = 3.897 af Average Runoff Depth = 5.80"
18.96% Pervious = 1.530 ac 81.04% Impervious = 6.540 ac

Summary for Subcatchment PDA 4 Perv: PDA4 PERV

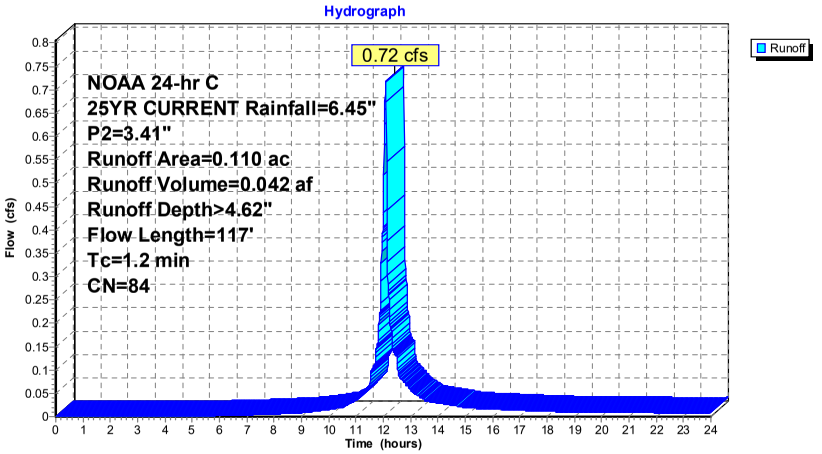
Runoff = 0.72 cfs @ 12.10 hrs, Volume= 0.042 af, Depth> 4.62"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR CURRENT Rainfall=6.45", P2=3.41"

Area (ac)	CN	Description
* 0.110	84	>75% Grass cover, Good, HSG D
0.110		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	5	0.3300	0.30		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
0.6	64	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.3	48	0.0040	2.89	3.54	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
1.2	117	Total			

Subcatchment PDA 4 Perv: PDA4 PERV



Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.20	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.20	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.21	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.21	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.21	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.22	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.22	0.00	0.00
0.40	0.03	0.00	0.00	3.00	0.23	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.23	0.00	0.00
0.50	0.04	0.00	0.00	3.10	0.24	0.00	0.00
0.55	0.04	0.00	0.00	3.15	0.24	0.00	0.00
0.60	0.04	0.00	0.00	3.20	0.24	0.00	0.00
0.65	0.05	0.00	0.00	3.25	0.25	0.00	0.00
0.70	0.05	0.00	0.00	3.30	0.25	0.00	0.00
0.75	0.05	0.00	0.00	3.35	0.26	0.00	0.00
0.80	0.06	0.00	0.00	3.40	0.26	0.00	0.00
0.85	0.06	0.00	0.00	3.45	0.27	0.00	0.00
0.90	0.06	0.00	0.00	3.50	0.27	0.00	0.00
0.95	0.07	0.00	0.00	3.55	0.28	0.00	0.00
1.00	0.07	0.00	0.00	3.60	0.28	0.00	0.00
1.05	0.07	0.00	0.00	3.65	0.28	0.00	0.00
1.10	0.08	0.00	0.00	3.70	0.29	0.00	0.00
1.15	0.08	0.00	0.00	3.75	0.29	0.00	0.00
1.20	0.09	0.00	0.00	3.80	0.30	0.00	0.00
1.25	0.09	0.00	0.00	3.85	0.30	0.00	0.00
1.30	0.09	0.00	0.00	3.90	0.31	0.00	0.00
1.35	0.10	0.00	0.00	3.95	0.31	0.00	0.00
1.40	0.10	0.00	0.00	4.00	0.32	0.00	0.00
1.45	0.10	0.00	0.00	4.05	0.32	0.00	0.00
1.50	0.11	0.00	0.00	4.10	0.32	0.00	0.00
1.55	0.11	0.00	0.00	4.15	0.33	0.00	0.00
1.60	0.11	0.00	0.00	4.20	0.33	0.00	0.00
1.65	0.12	0.00	0.00	4.25	0.34	0.00	0.00
1.70	0.12	0.00	0.00	4.30	0.34	0.00	0.00
1.75	0.13	0.00	0.00	4.35	0.35	0.00	0.00
1.80	0.13	0.00	0.00	4.40	0.35	0.00	0.00
1.85	0.13	0.00	0.00	4.45	0.36	0.00	0.00
1.90	0.14	0.00	0.00	4.50	0.36	0.00	0.00
1.95	0.14	0.00	0.00	4.55	0.37	0.00	0.00
2.00	0.15	0.00	0.00	4.60	0.37	0.00	0.00
2.05	0.15	0.00	0.00	4.65	0.38	0.00	0.00
2.10	0.15	0.00	0.00	4.70	0.38	0.00	0.00
2.15	0.16	0.00	0.00	4.75	0.39	0.00	0.00
2.20	0.16	0.00	0.00	4.80	0.39	0.00	0.00
2.25	0.17	0.00	0.00	4.85	0.40	0.00	0.00
2.30	0.17	0.00	0.00	4.90	0.40	0.00	0.00
2.35	0.17	0.00	0.00	4.95	0.41	0.00	0.00
2.40	0.18	0.00	0.00	5.00	0.41	0.00	0.00
2.45	0.18	0.00	0.00	5.05	0.42	0.00	0.00
2.50	0.19	0.00	0.00	5.10	0.42	0.00	0.00
2.55	0.19	0.00	0.00	5.15	0.42	0.00	0.00

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.43	0.00	0.00	7.80	0.74	0.06	0.00
5.25	0.43	0.00	0.00	7.85	0.75	0.06	0.00
5.30	0.44	0.00	0.00	7.90	0.76	0.06	0.01
5.35	0.44	0.00	0.00	7.95	0.77	0.06	0.01
5.40	0.45	0.00	0.00	8.00	0.77	0.07	0.01
5.45	0.45	0.00	0.00	8.05	0.78	0.07	0.01
5.50	0.46	0.00	0.00	8.10	0.79	0.07	0.01
5.55	0.46	0.00	0.00	8.15	0.80	0.07	0.01
5.60	0.47	0.00	0.00	8.20	0.80	0.08	0.01
5.65	0.48	0.00	0.00	8.25	0.81	0.08	0.01
5.70	0.48	0.00	0.00	8.30	0.82	0.08	0.01
5.75	0.49	0.01	0.00	8.35	0.83	0.09	0.01
5.80	0.49	0.01	0.00	8.40	0.84	0.09	0.01
5.85	0.50	0.01	0.00	8.45	0.85	0.09	0.01
5.90	0.50	0.01	0.00	8.50	0.85	0.09	0.01
5.95	0.51	0.01	0.00	8.55	0.86	0.10	0.01
6.00	0.51	0.01	0.00	8.60	0.87	0.10	0.01
6.05	0.52	0.01	0.00	8.65	0.88	0.10	0.01
6.10	0.52	0.01	0.00	8.70	0.89	0.11	0.01
6.15	0.53	0.01	0.00	8.75	0.90	0.11	0.01
6.20	0.53	0.01	0.00	8.80	0.91	0.11	0.01
6.25	0.54	0.01	0.00	8.85	0.91	0.12	0.01
6.30	0.54	0.01	0.00	8.90	0.92	0.12	0.01
6.35	0.55	0.01	0.00	8.95	0.93	0.12	0.01
6.40	0.56	0.01	0.00	9.00	0.94	0.13	0.01
6.45	0.56	0.02	0.00	9.05	0.95	0.13	0.01
6.50	0.57	0.02	0.00	9.10	0.96	0.14	0.01
6.55	0.57	0.02	0.00	9.15	0.97	0.14	0.01
6.60	0.58	0.02	0.00	9.20	0.98	0.14	0.01
6.65	0.58	0.02	0.00	9.25	0.99	0.15	0.01
6.70	0.59	0.02	0.00	9.30	1.00	0.15	0.01
6.75	0.60	0.02	0.00	9.35	1.01	0.16	0.01
6.80	0.60	0.02	0.00	9.40	1.02	0.16	0.01
6.85	0.61	0.02	0.00	9.45	1.04	0.17	0.01
6.90	0.62	0.03	0.00	9.50	1.05	0.17	0.01
6.95	0.62	0.03	0.00	9.55	1.06	0.18	0.01
7.00	0.63	0.03	0.00	9.60	1.07	0.18	0.01
7.05	0.64	0.03	0.00	9.65	1.08	0.19	0.01
7.10	0.64	0.03	0.00	9.70	1.10	0.20	0.01
7.15	0.65	0.03	0.00	9.75	1.11	0.20	0.01
7.20	0.66	0.03	0.00	9.80	1.12	0.21	0.01
7.25	0.66	0.04	0.00	9.85	1.13	0.21	0.01
7.30	0.67	0.04	0.00	9.90	1.15	0.22	0.01
7.35	0.68	0.04	0.00	9.95	1.16	0.23	0.02
7.40	0.68	0.04	0.00	10.00	1.18	0.23	0.02
7.45	0.69	0.04	0.00	10.05	1.19	0.24	0.02
7.50	0.70	0.05	0.00	10.10	1.20	0.25	0.02
7.55	0.70	0.05	0.00	10.15	1.22	0.26	0.02
7.60	0.71	0.05	0.00	10.20	1.23	0.26	0.02
7.65	0.72	0.05	0.00	10.25	1.25	0.27	0.02
7.70	0.73	0.05	0.00	10.30	1.27	0.28	0.02
7.75	0.73	0.06	0.00	10.35	1.28	0.29	0.02

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.30	0.30	0.02	13.00	4.90	3.18	0.06
10.45	1.31	0.31	0.02	13.05	4.93	3.20	0.05
10.50	1.33	0.32	0.02	13.10	4.95	3.23	0.05
10.55	1.35	0.33	0.02	13.15	4.98	3.25	0.05
10.60	1.37	0.34	0.02	13.20	5.00	3.27	0.05
10.65	1.39	0.35	0.02	13.25	5.02	3.29	0.04
10.70	1.41	0.36	0.03	13.30	5.04	3.31	0.04
10.75	1.43	0.37	0.03	13.35	5.06	3.33	0.04
10.80	1.45	0.38	0.03	13.40	5.08	3.35	0.04
10.85	1.47	0.40	0.03	13.45	5.10	3.36	0.04
10.90	1.50	0.41	0.03	13.50	5.12	3.38	0.04
10.95	1.52	0.43	0.03	13.55	5.14	3.40	0.03
11.00	1.55	0.44	0.03	13.60	5.15	3.41	0.03
11.05	1.58	0.46	0.04	13.65	5.17	3.43	0.03
11.10	1.61	0.48	0.04	13.70	5.18	3.44	0.03
11.15	1.64	0.50	0.04	13.75	5.20	3.45	0.03
11.20	1.67	0.52	0.05	13.80	5.22	3.47	0.03
11.25	1.71	0.54	0.05	13.85	5.23	3.48	0.03
11.30	1.74	0.57	0.05	13.90	5.25	3.50	0.03
11.35	1.78	0.59	0.06	13.95	5.26	3.51	0.03
11.40	1.82	0.62	0.06	14.00	5.27	3.52	0.03
11.45	1.86	0.65	0.06	14.05	5.29	3.53	0.03
11.50	1.91	0.68	0.06	14.10	5.30	3.55	0.03
11.55	1.97	0.72	0.09	14.15	5.32	3.56	0.03
11.60	2.04	0.77	0.10	14.20	5.33	3.57	0.03
11.65	2.11	0.82	0.11	14.25	5.34	3.58	0.03
11.70	2.17	0.87	0.11	14.30	5.35	3.60	0.03
11.75	2.27	0.94	0.15	14.35	5.37	3.61	0.03
11.80	2.36	1.01	0.16	14.40	5.38	3.62	0.03
11.85	2.49	1.11	0.21	14.45	5.39	3.63	0.02
11.90	2.62	1.21	0.23	14.50	5.40	3.64	0.02
11.95	2.85	1.39	0.37	14.55	5.41	3.65	0.02
12.00	3.07	1.58	0.41	14.60	5.43	3.66	0.02
12.05	3.45	1.89	0.66	14.65	5.44	3.67	0.02
12.10	3.83	2.22	**0.72**	14.70	5.45	3.68	0.02
12.15	3.96	2.33	0.33	14.75	5.46	3.69	0.02
12.20	4.09	2.45	0.26	14.80	5.47	3.70	0.02
12.25	4.18	2.53	0.20	14.85	5.48	3.71	0.02
12.30	4.28	2.62	0.19	14.90	5.49	3.72	0.02
12.35	4.34	2.68	0.14	14.95	5.50	3.73	0.02
12.40	4.41	2.74	0.14	15.00	5.51	3.74	0.02
12.45	4.48	2.80	0.13	15.05	5.52	3.75	0.02
12.50	4.54	2.86	0.13	15.10	5.53	3.76	0.02
12.55	4.59	2.89	0.09	15.15	5.54	3.76	0.02
12.60	4.63	2.93	0.08	15.20	5.54	3.77	0.02
12.65	4.67	2.97	0.08	15.25	5.55	3.78	0.02
12.70	4.71	3.00	0.08	15.30	5.56	3.79	0.02
12.75	4.74	3.04	0.07	15.35	5.57	3.80	0.02
12.80	4.78	3.07	0.07	15.40	5.58	3.80	0.02
12.85	4.81	3.10	0.07	15.45	5.59	3.81	0.02
12.90	4.84	3.13	0.07	15.50	5.60	3.82	0.02
12.95	4.87	3.15	0.06	15.55	5.60	3.83	0.02

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.61	3.84	0.02	18.20	5.96	4.16	0.01
15.65	5.62	3.84	0.02	18.25	5.96	4.16	0.01
15.70	5.63	3.85	0.02	18.30	5.97	4.17	0.01
15.75	5.64	3.86	0.02	18.35	5.97	4.17	0.01
15.80	5.65	3.87	0.02	18.40	5.98	4.18	0.01
15.85	5.65	3.87	0.02	18.45	5.99	4.18	0.01
15.90	5.66	3.88	0.02	18.50	5.99	4.19	0.01
15.95	5.67	3.89	0.02	18.55	6.00	4.19	0.01
16.00	5.68	3.90	0.02	18.60	6.00	4.20	0.01
16.05	5.68	3.90	0.02	18.65	6.01	4.20	0.01
16.10	5.69	3.91	0.02	18.70	6.01	4.21	0.01
16.15	5.70	3.92	0.02	18.75	6.02	4.21	0.01
16.20	5.71	3.92	0.02	18.80	6.02	4.22	0.01
16.25	5.72	3.93	0.02	18.85	6.03	4.22	0.01
16.30	5.72	3.94	0.02	18.90	6.03	4.22	0.01
16.35	5.73	3.94	0.02	18.95	6.03	4.23	0.01
16.40	5.74	3.95	0.02	19.00	6.04	4.23	0.01
16.45	5.75	3.96	0.01	19.05	6.04	4.24	0.01
16.50	5.75	3.97	0.01	19.10	6.05	4.24	0.01
16.55	5.76	3.97	0.01	19.15	6.05	4.25	0.01
16.60	5.77	3.98	0.01	19.20	6.06	4.25	0.01
16.65	5.77	3.98	0.01	19.25	6.06	4.26	0.01
16.70	5.78	3.99	0.01	19.30	6.07	4.26	0.01
16.75	5.79	4.00	0.01	19.35	6.07	4.27	0.01
16.80	5.79	4.00	0.01	19.40	6.08	4.27	0.01
16.85	5.80	4.01	0.01	19.45	6.08	4.27	0.01
16.90	5.81	4.02	0.01	19.50	6.09	4.28	0.01
16.95	5.81	4.02	0.01	19.55	6.09	4.28	0.01
17.00	5.82	4.03	0.01	19.60	6.10	4.29	0.01
17.05	5.83	4.04	0.01	19.65	6.10	4.29	0.01
17.10	5.83	4.04	0.01	19.70	6.11	4.30	0.01
17.15	5.84	4.05	0.01	19.75	6.11	4.30	0.01
17.20	5.85	4.05	0.01	19.80	6.12	4.31	0.01
17.25	5.85	4.06	0.01	19.85	6.12	4.31	0.01
17.30	5.86	4.06	0.01	19.90	6.13	4.31	0.01
17.35	5.87	4.07	0.01	19.95	6.13	4.32	0.01
17.40	5.87	4.08	0.01	20.00	6.13	4.32	0.01
17.45	5.88	4.08	0.01	20.05	6.14	4.33	0.01
17.50	5.88	4.09	0.01	20.10	6.14	4.33	0.01
17.55	5.89	4.09	0.01	20.15	6.15	4.34	0.01
17.60	5.89	4.10	0.01	20.20	6.15	4.34	0.01
17.65	5.90	4.10	0.01	20.25	6.16	4.34	0.01
17.70	5.91	4.11	0.01	20.30	6.16	4.35	0.01
17.75	5.91	4.11	0.01	20.35	6.17	4.35	0.01
17.80	5.92	4.12	0.01	20.40	6.17	4.36	0.01
17.85	5.92	4.12	0.01	20.45	6.17	4.36	0.01
17.90	5.93	4.13	0.01	20.50	6.18	4.36	0.01
17.95	5.93	4.13	0.01	20.55	6.18	4.37	0.01
18.00	5.94	4.14	0.01	20.60	6.19	4.37	0.01
18.05	5.94	4.14	0.01	20.65	6.19	4.38	0.01
18.10	5.95	4.15	0.01	20.70	6.20	4.38	0.01
18.15	5.95	4.15	0.01	20.75	6.20	4.38	0.01

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	6.21	4.39	0.01	23.40	6.41	4.58	0.01
20.85	6.21	4.39	0.01	23.45	6.41	4.58	0.01
20.90	6.21	4.40	0.01	23.50	6.41	4.59	0.01
20.95	6.22	4.40	0.01	23.55	6.42	4.59	0.01
21.00	6.22	4.41	0.01	23.60	6.42	4.59	0.01
21.05	6.23	4.41	0.01	23.65	6.42	4.60	0.01
21.10	6.23	4.41	0.01	23.70	6.43	4.60	0.01
21.15	6.24	4.42	0.01	23.75	6.43	4.60	0.01
21.20	6.24	4.42	0.01	23.80	6.44	4.61	0.01
21.25	6.24	4.42	0.01	23.85	6.44	4.61	0.01
21.30	6.25	4.43	0.01	23.90	6.44	4.61	0.01
21.35	6.25	4.43	0.01	23.95	6.45	4.62	0.01
21.40	6.26	4.44	0.01	24.00	**6.45**	**4.62**	0.01
21.45	6.26	4.44	0.01				
21.50	6.26	4.44	0.01				
21.55	6.27	4.45	0.01				
21.60	6.27	4.45	0.01				
21.65	6.28	4.46	0.01				
21.70	6.28	4.46	0.01				
21.75	6.28	4.46	0.01				
21.80	6.29	4.47	0.01				
21.85	6.29	4.47	0.01				
21.90	6.30	4.47	0.01				
21.95	6.30	4.48	0.01				
22.00	6.30	4.48	0.01				
22.05	6.31	4.49	0.01				
22.10	6.31	4.49	0.01				
22.15	6.32	4.49	0.01				
22.20	6.32	4.50	0.01				
22.25	6.32	4.50	0.01				
22.30	6.33	4.50	0.01				
22.35	6.33	4.51	0.01				
22.40	6.34	4.51	0.01				
22.45	6.34	4.51	0.01				
22.50	6.34	4.52	0.01				
22.55	6.35	4.52	0.01				
22.60	6.35	4.53	0.01				
22.65	6.35	4.53	0.01				
22.70	6.36	4.53	0.01				
22.75	6.36	4.54	0.01				
22.80	6.36	4.54	0.01				
22.85	6.37	4.54	0.01				
22.90	6.37	4.55	0.01				
22.95	6.38	4.55	0.01				
23.00	6.38	4.55	0.01				
23.05	6.38	4.56	0.01				
23.10	6.39	4.56	0.01				
23.15	6.39	4.56	0.01				
23.20	6.39	4.57	0.01				
23.25	6.40	4.57	0.01				
23.30	6.40	4.57	0.01				
23.35	6.40	4.58	0.01				

Summary for Subcatchment PDA1A IMP: PDA1A IMP

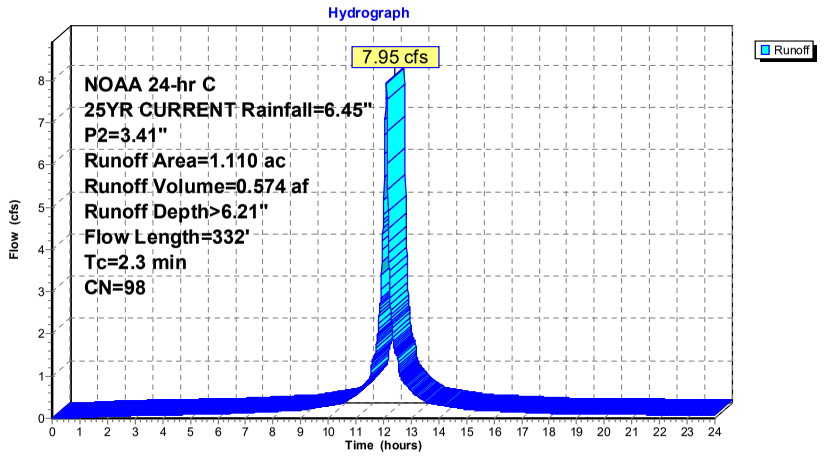
Runoff = 7.95 cfs @ 12.11 hrs, Volume= 0.574 af, Depth> 6.21"
Routed to Link P1A : P1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR CURRENT Rainfall=6.45", P2=3.41"

	Area (ac)	CN	Description
*	0.340	98	Impervious vehicular
	0.770	98	Roofs, HSG D
	1.110	98	Weighted Average
	1.110		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	100	0.0160	1.30		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.4	47	0.0100	2.03		**Shallow Concentrated Flow, paved** Paved Kv= 20.3 fps
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
2.3	332	Total			

Subcatchment PDA1A IMP: PDA1A IMP



Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.07	0.06
0.05	0.00	0.00	0.00	2.65	0.20	0.07	0.06
0.10	0.01	0.00	0.00	2.70	0.20	0.07	0.06
0.15	0.01	0.00	0.00	2.75	0.21	0.07	0.06
0.20	0.01	0.00	0.00	2.80	0.21	0.08	0.06
0.25	0.02	0.00	0.00	2.85	0.21	0.08	0.07
0.30	0.02	0.00	0.00	2.90	0.22	0.08	0.07
0.35	0.03	0.00	0.00	2.95	0.22	0.09	0.07
0.40	0.03	0.00	0.00	3.00	0.23	0.09	0.07
0.45	0.03	0.00	0.00	3.05	0.23	0.09	0.07
0.50	0.04	0.00	0.00	3.10	0.24	0.10	0.07
0.55	0.04	0.00	0.00	3.15	0.24	0.10	0.07
0.60	0.04	0.00	0.00	3.20	0.24	0.10	0.07
0.65	0.05	0.00	0.00	3.25	0.25	0.11	0.07
0.70	0.05	0.00	0.00	3.30	0.25	0.11	0.07
0.75	0.05	0.00	0.01	3.35	0.26	0.11	0.07
0.80	0.06	0.00	0.01	3.40	0.26	0.12	0.07
0.85	0.06	0.00	0.01	3.45	0.27	0.12	0.08
0.90	0.06	0.00	0.01	3.50	0.27	0.12	0.08
0.95	0.07	0.00	0.01	3.55	0.28	0.13	0.08
1.00	0.07	0.00	0.02	3.60	0.28	0.13	0.08
1.05	0.07	0.00	0.02	3.65	0.28	0.13	0.08
1.10	0.08	0.01	0.02	3.70	0.29	0.14	0.08
1.15	0.08	0.01	0.02	3.75	0.29	0.14	0.08
1.20	0.09	0.01	0.02	3.80	0.30	0.14	0.08
1.25	0.09	0.01	0.03	3.85	0.30	0.15	0.08
1.30	0.09	0.01	0.03	3.90	0.31	0.15	0.08
1.35	0.10	0.01	0.03	3.95	0.31	0.15	0.08
1.40	0.10	0.01	0.03	4.00	0.32	0.16	0.08
1.45	0.10	0.01	0.03	4.05	0.32	0.16	0.08
1.50	0.11	0.02	0.03	4.10	0.32	0.17	0.08
1.55	0.11	0.02	0.04	4.15	0.33	0.17	0.08
1.60	0.11	0.02	0.04	4.20	0.33	0.17	0.09
1.65	0.12	0.02	0.04	4.25	0.34	0.18	0.09
1.70	0.12	0.02	0.04	4.30	0.34	0.18	0.09
1.75	0.13	0.03	0.04	4.35	0.35	0.18	0.09
1.80	0.13	0.03	0.04	4.40	0.35	0.19	0.09
1.85	0.13	0.03	0.04	4.45	0.36	0.19	0.09
1.90	0.14	0.03	0.05	4.50	0.36	0.20	0.09
1.95	0.14	0.03	0.05	4.55	0.37	0.20	0.09
2.00	0.15	0.04	0.05	4.60	0.37	0.20	0.09
2.05	0.15	0.04	0.05	4.65	0.38	0.21	0.09
2.10	0.15	0.04	0.05	4.70	0.38	0.21	0.09
2.15	0.16	0.04	0.05	4.75	0.39	0.22	0.09
2.20	0.16	0.04	0.05	4.80	0.39	0.22	0.09
2.25	0.17	0.05	0.05	4.85	0.40	0.23	0.09
2.30	0.17	0.05	0.06	4.90	0.40	0.23	0.09
2.35	0.17	0.05	0.06	4.95	0.41	0.23	0.09
2.40	0.18	0.05	0.06	5.00	0.41	0.24	0.09
2.45	0.18	0.06	0.06	5.05	0.42	0.24	0.10
2.50	0.19	0.06	0.06	5.10	0.42	0.25	0.10
2.55	0.19	0.06	0.06	5.15	0.42	0.25	0.10

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.43	0.26	0.10	7.80	0.74	0.54	0.16
5.25	0.43	0.26	0.10	7.85	0.75	0.55	0.16
5.30	0.44	0.26	0.10	7.90	0.76	0.56	0.16
5.35	0.44	0.27	0.10	7.95	0.77	0.56	0.16
5.40	0.45	0.27	0.10	8.00	0.77	0.57	0.17
5.45	0.45	0.28	0.10	8.05	0.78	0.58	0.17
5.50	0.46	0.28	0.10	8.10	0.79	0.59	0.17
5.55	0.46	0.29	0.10	8.15	0.80	0.60	0.17
5.60	0.47	0.29	0.10	8.20	0.80	0.60	0.17
5.65	0.48	0.30	0.10	8.25	0.81	0.61	0.17
5.70	0.48	0.30	0.10	8.30	0.82	0.62	0.17
5.75	0.49	0.30	0.10	8.35	0.83	0.63	0.18
5.80	0.49	0.31	0.10	8.40	0.84	0.63	0.18
5.85	0.50	0.31	0.10	8.45	0.85	0.64	0.18
5.90	0.50	0.32	0.10	8.50	0.85	0.65	0.18
5.95	0.51	0.32	0.10	8.55	0.86	0.66	0.18
6.00	0.51	0.33	0.11	8.60	0.87	0.67	0.18
6.05	0.52	0.33	0.11	8.65	0.88	0.67	0.18
6.10	0.52	0.34	0.11	8.70	0.89	0.68	0.19
6.15	0.53	0.34	0.11	8.75	0.90	0.69	0.19
6.20	0.53	0.35	0.11	8.80	0.91	0.70	0.19
6.25	0.54	0.35	0.11	8.85	0.91	0.71	0.19
6.30	0.54	0.36	0.11	8.90	0.92	0.72	0.19
6.35	0.55	0.36	0.12	8.95	0.93	0.73	0.19
6.40	0.56	0.37	0.12	9.00	0.94	0.73	0.20
6.45	0.56	0.37	0.12	9.05	0.95	0.74	0.20
6.50	0.57	0.38	0.12	9.10	0.96	0.75	0.20
6.55	0.57	0.38	0.12	9.15	0.97	0.76	0.21
6.60	0.58	0.39	0.12	9.20	0.98	0.77	0.21
6.65	0.58	0.40	0.12	9.25	0.99	0.78	0.22
6.70	0.59	0.40	0.13	9.30	1.00	0.79	0.23
6.75	0.60	0.41	0.13	9.35	1.01	0.80	0.23
6.80	0.60	0.41	0.13	9.40	1.02	0.81	0.24
6.85	0.61	0.42	0.13	9.45	1.04	0.83	0.24
6.90	0.62	0.42	0.13	9.50	1.05	0.84	0.25
6.95	0.62	0.43	0.13	9.55	1.06	0.85	0.25
7.00	0.63	0.44	0.13	9.60	1.07	0.86	0.26
7.05	0.64	0.44	0.14	9.65	1.08	0.87	0.27
7.10	0.64	0.45	0.14	9.70	1.10	0.88	0.27
7.15	0.65	0.46	0.14	9.75	1.11	0.90	0.28
7.20	0.66	0.46	0.14	9.80	1.12	0.91	0.28
7.25	0.66	0.47	0.14	9.85	1.13	0.92	0.29
7.30	0.67	0.47	0.14	9.90	1.15	0.94	0.29
7.35	0.68	0.48	0.15	9.95	1.16	0.95	0.30
7.40	0.68	0.49	0.15	10.00	1.18	0.96	0.30
7.45	0.69	0.49	0.15	10.05	1.19	0.98	0.31
7.50	0.70	0.50	0.15	10.10	1.20	0.99	0.31
7.55	0.70	0.51	0.15	10.15	1.22	1.00	0.32
7.60	0.71	0.51	0.15	10.20	1.23	1.02	0.32
7.65	0.72	0.52	0.15	10.25	1.25	1.03	0.33
7.70	0.73	0.53	0.16	10.30	1.27	1.05	0.33
7.75	0.73	0.54	0.16	10.35	1.28	1.06	0.34

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.30	1.08	0.35	13.00	4.90	4.67	0.66
10.45	1.31	1.10	0.35	13.05	4.93	4.69	0.61
10.50	1.33	1.11	0.36	13.10	4.95	4.72	0.58
10.55	1.35	1.13	0.38	13.15	4.98	4.74	0.55
10.60	1.37	1.15	0.39	13.20	5.00	4.76	0.54
10.65	1.39	1.17	0.42	13.25	5.02	4.79	0.51
10.70	1.41	1.19	0.43	13.30	5.04	4.81	0.50
10.75	1.43	1.21	0.46	13.35	5.06	4.83	0.47
10.80	1.45	1.23	0.48	13.40	5.08	4.85	0.45
10.85	1.47	1.25	0.50	13.45	5.10	4.87	0.43
10.90	1.50	1.28	0.52	13.50	5.12	4.88	0.41
10.95	1.52	1.30	0.54	13.55	5.14	4.90	0.39
11.00	1.55	1.33	0.56	13.60	5.15	4.92	0.37
11.05	1.58	1.36	0.60	13.65	5.17	4.93	0.36
11.10	1.61	1.38	0.63	13.70	5.18	4.95	0.36
11.15	1.64	1.42	0.68	13.75	5.20	4.96	0.35
11.20	1.67	1.45	0.71	13.80	5.22	4.98	0.34
11.25	1.71	1.48	0.76	13.85	5.23	4.99	0.34
11.30	1.74	1.52	0.78	13.90	5.25	5.01	0.33
11.35	1.78	1.56	0.83	13.95	5.26	5.02	0.33
11.40	1.82	1.60	0.86	14.00	5.27	5.04	0.32
11.45	1.86	1.64	0.90	14.05	5.29	5.05	0.32
11.50	1.91	1.68	0.92	14.10	5.30	5.06	0.31
11.55	1.97	1.75	1.20	14.15	5.32	5.08	0.31
11.60	2.04	1.81	1.37	14.20	5.33	5.09	0.30
11.65	2.11	1.88	1.47	14.25	5.34	5.10	0.29
11.70	2.17	1.95	1.51	14.30	5.35	5.12	0.29
11.75	2.27	2.04	1.82	14.35	5.37	5.13	0.28
11.80	2.36	2.13	2.01	14.40	5.38	5.14	0.28
11.85	2.49	2.26	2.50	14.45	5.39	5.15	0.27
11.90	2.62	2.39	2.78	14.50	5.40	5.17	0.27
11.95	2.85	2.62	3.99	14.55	5.41	5.18	0.26
12.00	3.07	2.84	4.71	14.60	5.43	5.19	0.26
12.05	3.45	3.22	6.72	14.65	5.44	5.20	0.25
12.10	3.83	3.59	**7.89**	14.70	5.45	5.21	0.25
12.15	3.96	3.72	**5.40**	14.75	5.46	5.22	0.24
12.20	4.09	3.85	3.70	14.80	5.47	5.23	0.24
12.25	4.18	3.95	2.69	14.85	5.48	5.24	0.23
12.30	4.28	4.04	2.26	14.90	5.49	5.25	0.23
12.35	4.34	4.11	1.83	14.95	5.50	5.26	0.22
12.40	4.41	4.18	1.62	15.00	5.51	5.27	0.21
12.45	4.48	4.24	1.51	15.05	5.52	5.28	0.21
12.50	4.54	4.31	1.47	15.10	5.53	5.29	0.20
12.55	4.59	4.35	1.19	15.15	5.54	5.30	0.20
12.60	4.63	4.39	1.02	15.20	5.54	5.31	0.20
12.65	4.67	4.43	0.93	15.25	5.55	5.32	0.20
12.70	4.71	4.47	0.89	15.30	5.56	5.32	0.20
12.75	4.74	4.51	0.84	15.35	5.57	5.33	0.20
12.80	4.78	4.54	0.82	15.40	5.58	5.34	0.19
12.85	4.81	4.57	0.77	15.45	5.59	5.35	0.19
12.90	4.84	4.61	0.74	15.50	5.60	5.36	0.19
12.95	4.87	4.64	0.69	15.55	5.60	5.37	0.19

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.61	5.37	0.19	18.20	5.96	5.72	0.12
15.65	5.62	5.38	0.19	18.25	5.96	5.73	0.12
15.70	5.63	5.39	0.19	18.30	5.97	5.73	0.11
15.75	5.64	5.40	0.18	18.35	5.97	5.74	0.11
15.80	5.65	5.41	0.18	18.40	5.98	5.74	0.11
15.85	5.65	5.42	0.18	18.45	5.99	5.75	0.11
15.90	5.66	5.42	0.18	18.50	5.99	5.75	0.11
15.95	5.67	5.43	0.18	18.55	6.00	5.76	0.11
16.00	5.68	5.44	0.18	18.60	6.00	5.76	0.11
16.05	5.68	5.45	0.17	18.65	6.01	5.77	0.11
16.10	5.69	5.45	0.17	18.70	6.01	5.77	0.11
16.15	5.70	5.46	0.17	18.75	6.02	5.78	0.11
16.20	5.71	5.47	0.17	18.80	6.02	5.78	0.11
16.25	5.72	5.48	0.17	18.85	6.03	5.79	0.11
16.30	5.72	5.49	0.17	18.90	6.03	5.79	0.11
16.35	5.73	5.49	0.17	18.95	6.03	5.80	0.11
16.40	5.74	5.50	0.17	19.00	6.04	5.80	0.11
16.45	5.75	5.51	0.16	19.05	6.04	5.81	0.11
16.50	5.75	5.51	0.16	19.10	6.05	5.81	0.11
16.55	5.76	5.52	0.16	19.15	6.05	5.82	0.11
16.60	5.77	5.53	0.16	19.20	6.06	5.82	0.11
16.65	5.77	5.54	0.16	19.25	6.06	5.83	0.11
16.70	5.78	5.54	0.16	19.30	6.07	5.83	0.11
16.75	5.79	5.55	0.15	19.35	6.07	5.84	0.11
16.80	5.79	5.56	0.15	19.40	6.08	5.84	0.11
16.85	5.80	5.56	0.15	19.45	6.08	5.84	0.11
16.90	5.81	5.57	0.15	19.50	6.09	5.85	0.11
16.95	5.81	5.58	0.15	19.55	6.09	5.85	0.11
17.00	5.82	5.58	0.15	19.60	6.10	5.86	0.11
17.05	5.83	5.59	0.15	19.65	6.10	5.86	0.10
17.10	5.83	5.60	0.15	19.70	6.11	5.87	0.10
17.15	5.84	5.60	0.14	19.75	6.11	5.87	0.10
17.20	5.85	5.61	0.14	19.80	6.12	5.88	0.10
17.25	5.85	5.61	0.14	19.85	6.12	5.88	0.10
17.30	5.86	5.62	0.14	19.90	6.13	5.89	0.10
17.35	5.87	5.63	0.14	19.95	6.13	5.89	0.10
17.40	5.87	5.63	0.14	20.00	6.13	5.90	0.10
17.45	5.88	5.64	0.13	20.05	6.14	5.90	0.10
17.50	5.88	5.65	0.13	20.10	6.14	5.91	0.10
17.55	5.89	5.65	0.13	20.15	6.15	5.91	0.10
17.60	5.89	5.66	0.13	20.20	6.15	5.91	0.10
17.65	5.90	5.66	0.13	20.25	6.16	5.92	0.10
17.70	5.91	5.67	0.13	20.30	6.16	5.92	0.10
17.75	5.91	5.67	0.13	20.35	6.17	5.93	0.10
17.80	5.92	5.68	0.13	20.40	6.17	5.93	0.10
17.85	5.92	5.68	0.12	20.45	6.17	5.94	0.10
17.90	5.93	5.69	0.12	20.50	6.18	5.94	0.10
17.95	5.93	5.70	0.12	20.55	6.18	5.95	0.10
18.00	5.94	5.70	0.12	20.60	6.19	5.95	0.10
18.05	5.94	5.71	0.12	20.65	6.19	5.95	0.10
18.10	5.95	5.71	0.12	20.70	6.20	5.96	0.10
18.15	5.95	5.72	0.12	20.75	6.20	5.96	0.10

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	6.21	5.97	0.10	23.40	6.41	6.17	0.08
20.85	6.21	5.97	0.10	23.45	6.41	6.17	0.08
20.90	6.21	5.98	0.10	23.50	6.41	6.18	0.08
20.95	6.22	5.98	0.10	23.55	6.42	6.18	0.08
21.00	6.22	5.98	0.10	23.60	6.42	6.18	0.08
21.05	6.23	5.99	0.09	23.65	6.42	6.19	0.08
21.10	6.23	5.99	0.09	23.70	6.43	6.19	0.08
21.15	6.24	6.00	0.09	23.75	6.43	6.19	0.08
21.20	6.24	6.00	0.09	23.80	6.44	6.20	0.08
21.25	6.24	6.01	0.09	23.85	6.44	6.20	0.07
21.30	6.25	6.01	0.09	23.90	6.44	6.20	0.07
21.35	6.25	6.01	0.09	23.95	6.45	6.21	0.08
21.40	6.26	6.02	0.09	24.00	**6.45**	**6.21**	0.09
21.45	6.26	6.02	0.09				
21.50	6.26	6.03	0.09				
21.55	6.27	6.03	0.09				
21.60	6.27	6.03	0.09				
21.65	6.28	6.04	0.09				
21.70	6.28	6.04	0.09				
21.75	6.28	6.05	0.09				
21.80	6.29	6.05	0.09				
21.85	6.29	6.05	0.09				
21.90	6.30	6.06	0.09				
21.95	6.30	6.06	0.09				
22.00	6.30	6.07	0.09				
22.05	6.31	6.07	0.09				
22.10	6.31	6.07	0.09				
22.15	6.32	6.08	0.09				
22.20	6.32	6.08	0.09				
22.25	6.32	6.09	0.09				
22.30	6.33	6.09	0.09				
22.35	6.33	6.09	0.09				
22.40	6.34	6.10	0.09				
22.45	6.34	6.10	0.08				
22.50	6.34	6.10	0.08				
22.55	6.35	6.11	0.08				
22.60	6.35	6.11	0.08				
22.65	6.35	6.12	0.08				
22.70	6.36	6.12	0.08				
22.75	6.36	6.12	0.08				
22.80	6.36	6.13	0.08				
22.85	6.37	6.13	0.08				
22.90	6.37	6.13	0.08				
22.95	6.38	6.14	0.08				
23.00	6.38	6.14	0.08				
23.05	6.38	6.14	0.08				
23.10	6.39	6.15	0.08				
23.15	6.39	6.15	0.08				
23.20	6.39	6.16	0.08				
23.25	6.40	6.16	0.08				
23.30	6.40	6.16	0.08				
23.35	6.40	6.17	0.08				

Summary for Subcatchment PDA1A PERV: PDA-1A PERV

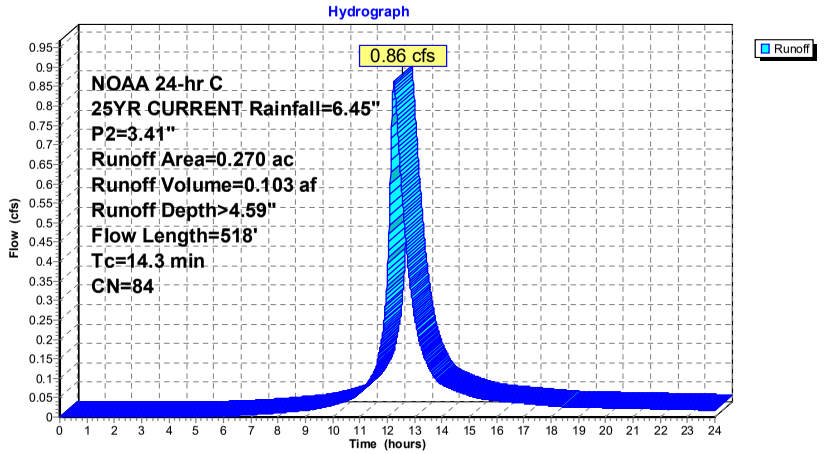
Runoff = 0.86 cfs @ 12.24 hrs, Volume= 0.103 af, Depth> 4.59"
Routed to Link P1A : P1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR CURRENT Rainfall=6.45", P2=3.41"

	Area (ac)	CN	Description
*	0.270	84	>75% Grass cover, Good, HSG D
	0.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.5	100	0.0100	0.13		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
0.1	22	0.0075	4.46	7.88	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP-2 Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
14.3	518	Total			

Subcatchment PDA1A PERV: PDA-1A PERV



Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.20	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.20	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.21	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.21	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.21	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.22	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.22	0.00	0.00
0.40	0.03	0.00	0.00	3.00	0.23	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.23	0.00	0.00
0.50	0.04	0.00	0.00	3.10	0.24	0.00	0.00
0.55	0.04	0.00	0.00	3.15	0.24	0.00	0.00
0.60	0.04	0.00	0.00	3.20	0.24	0.00	0.00
0.65	0.05	0.00	0.00	3.25	0.25	0.00	0.00
0.70	0.05	0.00	0.00	3.30	0.25	0.00	0.00
0.75	0.05	0.00	0.00	3.35	0.26	0.00	0.00
0.80	0.06	0.00	0.00	3.40	0.26	0.00	0.00
0.85	0.06	0.00	0.00	3.45	0.27	0.00	0.00
0.90	0.06	0.00	0.00	3.50	0.27	0.00	0.00
0.95	0.07	0.00	0.00	3.55	0.28	0.00	0.00
1.00	0.07	0.00	0.00	3.60	0.28	0.00	0.00
1.05	0.07	0.00	0.00	3.65	0.28	0.00	0.00
1.10	0.08	0.00	0.00	3.70	0.29	0.00	0.00
1.15	0.08	0.00	0.00	3.75	0.29	0.00	0.00
1.20	0.09	0.00	0.00	3.80	0.30	0.00	0.00
1.25	0.09	0.00	0.00	3.85	0.30	0.00	0.00
1.30	0.09	0.00	0.00	3.90	0.31	0.00	0.00
1.35	0.10	0.00	0.00	3.95	0.31	0.00	0.00
1.40	0.10	0.00	0.00	4.00	0.32	0.00	0.00
1.45	0.10	0.00	0.00	4.05	0.32	0.00	0.00
1.50	0.11	0.00	0.00	4.10	0.32	0.00	0.00
1.55	0.11	0.00	0.00	4.15	0.33	0.00	0.00
1.60	0.11	0.00	0.00	4.20	0.33	0.00	0.00
1.65	0.12	0.00	0.00	4.25	0.34	0.00	0.00
1.70	0.12	0.00	0.00	4.30	0.34	0.00	0.00
1.75	0.13	0.00	0.00	4.35	0.35	0.00	0.00
1.80	0.13	0.00	0.00	4.40	0.35	0.00	0.00
1.85	0.13	0.00	0.00	4.45	0.36	0.00	0.00
1.90	0.14	0.00	0.00	4.50	0.36	0.00	0.00
1.95	0.14	0.00	0.00	4.55	0.37	0.00	0.00
2.00	0.15	0.00	0.00	4.60	0.37	0.00	0.00
2.05	0.15	0.00	0.00	4.65	0.38	0.00	0.00
2.10	0.15	0.00	0.00	4.70	0.38	0.00	0.00
2.15	0.16	0.00	0.00	4.75	0.39	0.00	0.00
2.20	0.16	0.00	0.00	4.80	0.39	0.00	0.00
2.25	0.17	0.00	0.00	4.85	0.40	0.00	0.00
2.30	0.17	0.00	0.00	4.90	0.40	0.00	0.00
2.35	0.17	0.00	0.00	4.95	0.41	0.00	0.00
2.40	0.18	0.00	0.00	5.00	0.41	0.00	0.00
2.45	0.18	0.00	0.00	5.05	0.42	0.00	0.00
2.50	0.19	0.00	0.00	5.10	0.42	0.00	0.00
2.55	0.19	0.00	0.00	5.15	0.42	0.00	0.00

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.43	0.00	0.00	7.80	0.74	0.06	0.01
5.25	0.43	0.00	0.00	7.85	0.75	0.06	0.01
5.30	0.44	0.00	0.00	7.90	0.76	0.06	0.01
5.35	0.44	0.00	0.00	7.95	0.77	0.06	0.01
5.40	0.45	0.00	0.00	8.00	0.77	0.07	0.01
5.45	0.45	0.00	0.00	8.05	0.78	0.07	0.01
5.50	0.46	0.00	0.00	8.10	0.79	0.07	0.01
5.55	0.46	0.00	0.00	8.15	0.80	0.07	0.01
5.60	0.47	0.00	0.00	8.20	0.80	0.08	0.01
5.65	0.48	0.00	0.00	8.25	0.81	0.08	0.01
5.70	0.48	0.00	0.00	8.30	0.82	0.08	0.01
5.75	0.49	0.01	0.00	8.35	0.83	0.09	0.01
5.80	0.49	0.01	0.00	8.40	0.84	0.09	0.01
5.85	0.50	0.01	0.00	8.45	0.85	0.09	0.01
5.90	0.50	0.01	0.00	8.50	0.85	0.09	0.01
5.95	0.51	0.01	0.00	8.55	0.86	0.10	0.01
6.00	0.51	0.01	0.00	8.60	0.87	0.10	0.01
6.05	0.52	0.01	0.00	8.65	0.88	0.10	0.02
6.10	0.52	0.01	0.00	8.70	0.89	0.11	0.02
6.15	0.53	0.01	0.00	8.75	0.90	0.11	0.02
6.20	0.53	0.01	0.00	8.80	0.91	0.11	0.02
6.25	0.54	0.01	0.00	8.85	0.91	0.12	0.02
6.30	0.54	0.01	0.00	8.90	0.92	0.12	0.02
6.35	0.55	0.01	0.00	8.95	0.93	0.12	0.02
6.40	0.56	0.01	0.00	9.00	0.94	0.13	0.02
6.45	0.56	0.02	0.00	9.05	0.95	0.13	0.02
6.50	0.57	0.02	0.00	9.10	0.96	0.14	0.02
6.55	0.57	0.02	0.00	9.15	0.97	0.14	0.02
6.60	0.58	0.02	0.00	9.20	0.98	0.14	0.02
6.65	0.58	0.02	0.00	9.25	0.99	0.15	0.02
6.70	0.59	0.02	0.00	9.30	1.00	0.15	0.02
6.75	0.60	0.02	0.01	9.35	1.01	0.16	0.02
6.80	0.60	0.02	0.01	9.40	1.02	0.16	0.02
6.85	0.61	0.02	0.01	9.45	1.04	0.17	0.02
6.90	0.62	0.03	0.01	9.50	1.05	0.17	0.02
6.95	0.62	0.03	0.01	9.55	1.06	0.18	0.02
7.00	0.63	0.03	0.01	9.60	1.07	0.18	0.02
7.05	0.64	0.03	0.01	9.65	1.08	0.19	0.03
7.10	0.64	0.03	0.01	9.70	1.10	0.20	0.03
7.15	0.65	0.03	0.01	9.75	1.11	0.20	0.03
7.20	0.66	0.03	0.01	9.80	1.12	0.21	0.03
7.25	0.66	0.04	0.01	9.85	1.13	0.21	0.03
7.30	0.67	0.04	0.01	9.90	1.15	0.22	0.03
7.35	0.68	0.04	0.01	9.95	1.16	0.23	0.03
7.40	0.68	0.04	0.01	10.00	1.18	0.23	0.03
7.45	0.69	0.04	0.01	10.05	1.19	0.24	0.03
7.50	0.70	0.05	0.01	10.10	1.20	0.25	0.03
7.55	0.70	0.05	0.01	10.15	1.22	0.26	0.03
7.60	0.71	0.05	0.01	10.20	1.23	0.26	0.04
7.65	0.72	0.05	0.01	10.25	1.25	0.27	0.04
7.70	0.73	0.05	0.01	10.30	1.27	0.28	0.04
7.75	0.73	0.06	0.01	10.35	1.28	0.29	0.04

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.30	0.30	0.04	13.00	4.90	3.18	0.26
10.45	1.31	0.31	0.04	13.05	4.93	3.20	0.24
10.50	1.33	0.32	0.04	13.10	4.95	3.23	0.22
10.55	1.35	0.33	0.04	13.15	4.98	3.25	0.20
10.60	1.37	0.34	0.04	13.20	5.00	3.27	0.19
10.65	1.39	0.35	0.05	13.25	5.02	3.29	0.18
10.70	1.41	0.36	0.05	13.30	5.04	3.31	0.16
10.75	1.43	0.37	0.05	13.35	5.06	3.33	0.16
10.80	1.45	0.38	0.05	13.40	5.08	3.35	0.15
10.85	1.47	0.40	0.05	13.45	5.10	3.36	0.14
10.90	1.50	0.41	0.06	13.50	5.12	3.38	0.13
10.95	1.52	0.43	0.06	13.55	5.14	3.40	0.12
11.00	1.55	0.44	0.06	13.60	5.15	3.41	0.12
11.05	1.58	0.46	0.07	13.65	5.17	3.43	0.11
11.10	1.61	0.48	0.07	13.70	5.18	3.44	0.10
11.15	1.64	0.50	0.07	13.75	5.20	3.45	0.10
11.20	1.67	0.52	0.08	13.80	5.22	3.47	0.10
11.25	1.71	0.54	0.08	13.85	5.23	3.48	0.09
11.30	1.74	0.57	0.09	13.90	5.25	3.50	0.09
11.35	1.78	0.59	0.10	13.95	5.26	3.51	0.09
11.40	1.82	0.62	0.10	14.00	5.27	3.52	0.08
11.45	1.86	0.65	0.11	14.05	5.29	3.53	0.08
11.50	1.91	0.68	0.11	14.10	5.30	3.55	0.08
11.55	1.97	0.72	0.12	14.15	5.32	3.56	0.08
11.60	2.04	0.77	0.13	14.20	5.33	3.57	0.08
11.65	2.11	0.82	0.15	14.25	5.34	3.58	0.08
11.70	2.17	0.87	0.16	14.30	5.35	3.60	0.07
11.75	2.27	0.94	0.18	14.35	5.37	3.61	0.07
11.80	2.36	1.01	0.20	14.40	5.38	3.62	0.07
11.85	2.49	1.11	0.23	14.45	5.39	3.63	0.07
11.90	2.62	1.21	0.26	14.50	5.40	3.64	0.07
11.95	2.85	1.39	0.30	14.55	5.41	3.65	0.07
12.00	3.07	1.58	0.36	14.60	5.43	3.66	0.07
12.05	3.45	1.89	0.45	14.65	5.44	3.67	0.06
12.10	3.83	2.22	0.57	14.70	5.45	3.68	0.06
12.15	3.96	2.33	0.72	14.75	5.46	3.69	0.06
12.20	4.09	2.45	**0.84**	14.80	5.47	3.70	0.06
12.25	4.18	2.53	**0.86**	14.85	5.48	3.71	0.06
12.30	4.28	2.62	0.83	14.90	5.49	3.72	0.06
12.35	4.34	2.68	0.78	14.95	5.50	3.73	0.06
12.40	4.41	2.74	0.72	15.00	5.51	3.74	0.06
12.45	4.48	2.80	0.66	15.05	5.52	3.75	0.05
12.50	4.54	2.86	0.61	15.10	5.53	3.76	0.05
12.55	4.59	2.89	0.56	15.15	5.54	3.76	0.05
12.60	4.63	2.93	0.52	15.20	5.54	3.77	0.05
12.65	4.67	2.97	0.47	15.25	5.55	3.78	0.05
12.70	4.71	3.00	0.43	15.30	5.56	3.79	0.05
12.75	4.74	3.04	0.39	15.35	5.57	3.80	0.05
12.80	4.78	3.07	0.36	15.40	5.58	3.80	0.05
12.85	4.81	3.10	0.33	15.45	5.59	3.81	0.05
12.90	4.84	3.13	0.30	15.50	5.60	3.82	0.05
12.95	4.87	3.15	0.28	15.55	5.60	3.83	0.05

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.61	3.84	0.05	18.20	5.96	4.16	0.03
15.65	5.62	3.84	0.04	18.25	5.96	4.16	0.03
15.70	5.63	3.85	0.04	18.30	5.97	4.17	0.03
15.75	5.64	3.86	0.04	18.35	5.97	4.17	0.03
15.80	5.65	3.87	0.04	18.40	5.98	4.18	0.03
15.85	5.65	3.87	0.04	18.45	5.99	4.18	0.03
15.90	5.66	3.88	0.04	18.50	5.99	4.19	0.03
15.95	5.67	3.89	0.04	18.55	6.00	4.19	0.03
16.00	5.68	3.90	0.04	18.60	6.00	4.20	0.03
16.05	5.68	3.90	0.04	18.65	6.01	4.20	0.03
16.10	5.69	3.91	0.04	18.70	6.01	4.21	0.03
16.15	5.70	3.92	0.04	18.75	6.02	4.21	0.03
16.20	5.71	3.92	0.04	18.80	6.02	4.22	0.03
16.25	5.72	3.93	0.04	18.85	6.03	4.22	0.03
16.30	5.72	3.94	0.04	18.90	6.03	4.22	0.03
16.35	5.73	3.94	0.04	18.95	6.03	4.23	0.03
16.40	5.74	3.95	0.04	19.00	6.04	4.23	0.03
16.45	5.75	3.96	0.04	19.05	6.04	4.24	0.03
16.50	5.75	3.97	0.04	19.10	6.05	4.24	0.03
16.55	5.76	3.97	0.04	19.15	6.05	4.25	0.03
16.60	5.77	3.98	0.04	19.20	6.06	4.25	0.03
16.65	5.77	3.98	0.04	19.25	6.06	4.26	0.03
16.70	5.78	3.99	0.04	19.30	6.07	4.26	0.03
16.75	5.79	4.00	0.04	19.35	6.07	4.27	0.02
16.80	5.79	4.00	0.04	19.40	6.08	4.27	0.02
16.85	5.80	4.01	0.04	19.45	6.08	4.27	0.02
16.90	5.81	4.02	0.04	19.50	6.09	4.28	0.02
16.95	5.81	4.02	0.04	19.55	6.09	4.28	0.02
17.00	5.82	4.03	0.04	19.60	6.10	4.29	0.02
17.05	5.83	4.04	0.04	19.65	6.10	4.29	0.02
17.10	5.83	4.04	0.03	19.70	6.11	4.30	0.02
17.15	5.84	4.05	0.03	19.75	6.11	4.30	0.02
17.20	5.85	4.05	0.03	19.80	6.12	4.31	0.02
17.25	5.85	4.06	0.03	19.85	6.12	4.31	0.02
17.30	5.86	4.06	0.03	19.90	6.13	4.31	0.02
17.35	5.87	4.07	0.03	19.95	6.13	4.32	0.02
17.40	5.87	4.08	0.03	20.00	6.13	4.32	0.02
17.45	5.88	4.08	0.03	20.05	6.14	4.33	0.02
17.50	5.88	4.09	0.03	20.10	6.14	4.33	0.02
17.55	5.89	4.09	0.03	20.15	6.15	4.34	0.02
17.60	5.89	4.10	0.03	20.20	6.15	4.34	0.02
17.65	5.90	4.10	0.03	20.25	6.16	4.34	0.02
17.70	5.91	4.11	0.03	20.30	6.16	4.35	0.02
17.75	5.91	4.11	0.03	20.35	6.17	4.35	0.02
17.80	5.92	4.12	0.03	20.40	6.17	4.36	0.02
17.85	5.92	4.12	0.03	20.45	6.17	4.36	0.02
17.90	5.93	4.13	0.03	20.50	6.18	4.36	0.02
17.95	5.93	4.13	0.03	20.55	6.18	4.37	0.02
18.00	5.94	4.14	0.03	20.60	6.19	4.37	0.02
18.05	5.94	4.14	0.03	20.65	6.19	4.38	0.02
18.10	5.95	4.15	0.03	20.70	6.20	4.38	0.02
18.15	5.95	4.15	0.03	20.75	6.20	4.38	0.02

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	6.21	4.39	0.02	23.40	6.41	4.58	0.02
20.85	6.21	4.39	0.02	23.45	6.41	4.58	0.02
20.90	6.21	4.40	0.02	23.50	6.41	4.59	0.02
20.95	6.22	4.40	0.02	23.55	6.42	4.59	0.02
21.00	6.22	4.41	0.02	23.60	6.42	4.59	0.02
21.05	6.23	4.41	0.02	23.65	6.42	4.60	0.02
21.10	6.23	4.41	0.02	23.70	6.43	4.60	0.02
21.15	6.24	4.42	0.02	23.75	6.43	4.60	0.02
21.20	6.24	4.42	0.02	23.80	6.44	4.61	0.02
21.25	6.24	4.42	0.02	23.85	6.44	4.61	0.02
21.30	6.25	4.43	0.02	23.90	6.44	4.61	0.02
21.35	6.25	4.43	0.02	23.95	6.45	4.62	0.02
21.40	6.26	4.44	0.02	24.00	**6.45**	**4.62**	0.02
21.45	6.26	4.44	0.02				
21.50	6.26	4.44	0.02				
21.55	6.27	4.45	0.02				
21.60	6.27	4.45	0.02				
21.65	6.28	4.46	0.02				
21.70	6.28	4.46	0.02				
21.75	6.28	4.46	0.02				
21.80	6.29	4.47	0.02				
21.85	6.29	4.47	0.02				
21.90	6.30	4.47	0.02				
21.95	6.30	4.48	0.02				
22.00	6.30	4.48	0.02				
22.05	6.31	4.49	0.02				
22.10	6.31	4.49	0.02				
22.15	6.32	4.49	0.02				
22.20	6.32	4.50	0.02				
22.25	6.32	4.50	0.02				
22.30	6.33	4.50	0.02				
22.35	6.33	4.51	0.02				
22.40	6.34	4.51	0.02				
22.45	6.34	4.51	0.02				
22.50	6.34	4.52	0.02				
22.55	6.35	4.52	0.02				
22.60	6.35	4.53	0.02				
22.65	6.35	4.53	0.02				
22.70	6.36	4.53	0.02				
22.75	6.36	4.54	0.02				
22.80	6.36	4.54	0.02				
22.85	6.37	4.54	0.02				
22.90	6.37	4.55	0.02				
22.95	6.38	4.55	0.02				
23.00	6.38	4.55	0.02				
23.05	6.38	4.56	0.02				
23.10	6.39	4.56	0.02				
23.15	6.39	4.56	0.02				
23.20	6.39	4.57	0.02				
23.25	6.40	4.57	0.02				
23.30	6.40	4.57	0.02				
23.35	6.40	4.58	0.02				

Summary for Subcatchment PDA1B IMP: PDA1B IMP

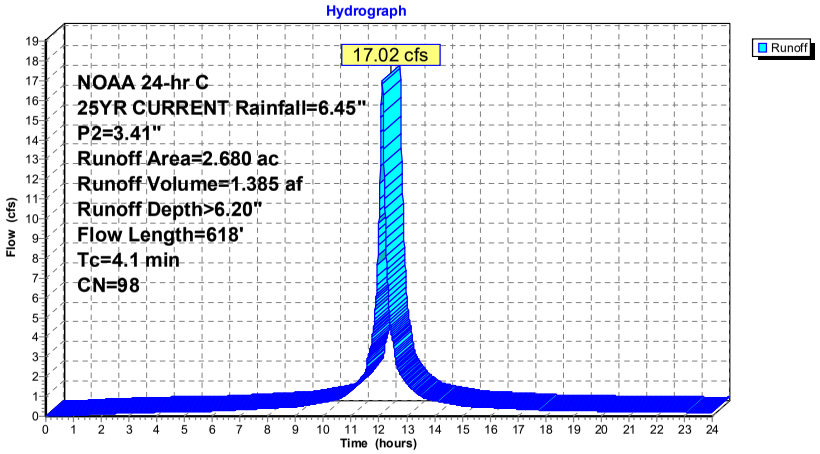
Runoff = 17.02 cfs @ 12.12 hrs, Volume= 1.385 af, Depth> 6.20"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR CURRENT Rainfall=6.45", P2=3.41"

	Area (ac)	CN	Description
	0.100	96	Gravel surface, HSG A
	0.070	96	Gravel surface, HSG D
*	0.190	98	Impervious vehicular
	2.210	98	Roofs, HSG D
*	0.110	98	Impervious non vehicular, HSG D
	2.680	98	Weighted Average
	0.170		6.34% Pervious Area
	2.510		93.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	8	0.0100	0.65		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.1	16	0.0150	1.84		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.9	93	0.0011	1.71	3.02	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
4.1	618	Total			

Subcatchment PDA1B IMP: PDA1B IMP



Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.07	0.14
0.05	0.00	0.00	0.00	2.65	0.20	0.07	0.15
0.10	0.01	0.00	0.00	2.70	0.20	0.07	0.15
0.15	0.01	0.00	0.00	2.75	0.21	0.07	0.15
0.20	0.01	0.00	0.00	2.80	0.21	0.08	0.15
0.25	0.02	0.00	0.00	2.85	0.21	0.08	0.16
0.30	0.02	0.00	0.00	2.90	0.22	0.08	0.16
0.35	0.03	0.00	0.00	2.95	0.22	0.09	0.16
0.40	0.03	0.00	0.00	3.00	0.23	0.09	0.16
0.45	0.03	0.00	0.00	3.05	0.23	0.09	0.16
0.50	0.04	0.00	0.00	3.10	0.24	0.10	0.17
0.55	0.04	0.00	0.00	3.15	0.24	0.10	0.17
0.60	0.04	0.00	0.00	3.20	0.24	0.10	0.17
0.65	0.05	0.00	0.00	3.25	0.25	0.11	0.17
0.70	0.05	0.00	0.00	3.30	0.25	0.11	0.17
0.75	0.05	0.00	0.01	3.35	0.26	0.11	0.18
0.80	0.06	0.00	0.01	3.40	0.26	0.12	0.18
0.85	0.06	0.00	0.02	3.45	0.27	0.12	0.18
0.90	0.06	0.00	0.03	3.50	0.27	0.12	0.18
0.95	0.07	0.00	0.03	3.55	0.28	0.13	0.18
1.00	0.07	0.00	0.04	3.60	0.28	0.13	0.19
1.05	0.07	0.00	0.04	3.65	0.28	0.13	0.19
1.10	0.08	0.01	0.05	3.70	0.29	0.14	0.19
1.15	0.08	0.01	0.05	3.75	0.29	0.14	0.19
1.20	0.09	0.01	0.06	3.80	0.30	0.14	0.19
1.25	0.09	0.01	0.06	3.85	0.30	0.15	0.19
1.30	0.09	0.01	0.06	3.90	0.31	0.15	0.20
1.35	0.10	0.01	0.07	3.95	0.31	0.15	0.20
1.40	0.10	0.01	0.07	4.00	0.32	0.16	0.20
1.45	0.10	0.01	0.08	4.05	0.32	0.16	0.20
1.50	0.11	0.02	0.08	4.10	0.32	0.17	0.20
1.55	0.11	0.02	0.08	4.15	0.33	0.17	0.20
1.60	0.11	0.02	0.09	4.20	0.33	0.17	0.20
1.65	0.12	0.02	0.09	4.25	0.34	0.18	0.21
1.70	0.12	0.02	0.09	4.30	0.34	0.18	0.21
1.75	0.13	0.03	0.10	4.35	0.35	0.18	0.21
1.80	0.13	0.03	0.10	4.40	0.35	0.19	0.21
1.85	0.13	0.03	0.10	4.45	0.36	0.19	0.21
1.90	0.14	0.03	0.11	4.50	0.36	0.20	0.21
1.95	0.14	0.03	0.11	4.55	0.37	0.20	0.22
2.00	0.15	0.04	0.11	4.60	0.37	0.20	0.22
2.05	0.15	0.04	0.12	4.65	0.38	0.21	0.22
2.10	0.15	0.04	0.12	4.70	0.38	0.21	0.22
2.15	0.16	0.04	0.12	4.75	0.39	0.22	0.22
2.20	0.16	0.04	0.12	4.80	0.39	0.22	0.22
2.25	0.17	0.05	0.13	4.85	0.40	0.23	0.22
2.30	0.17	0.05	0.13	4.90	0.40	0.23	0.23
2.35	0.17	0.05	0.13	4.95	0.41	0.23	0.23
2.40	0.18	0.05	0.14	5.00	0.41	0.24	0.23
2.45	0.18	0.06	0.14	5.05	0.42	0.24	0.23
2.50	0.19	0.06	0.14	5.10	0.42	0.25	0.23
2.55	0.19	0.06	0.14	5.15	0.42	0.25	0.23

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.43	0.26	0.23	7.80	0.74	0.54	0.38
5.25	0.43	0.26	0.23	7.85	0.75	0.55	0.38
5.30	0.44	0.26	0.24	7.90	0.76	0.56	0.39
5.35	0.44	0.27	0.24	7.95	0.77	0.56	0.39
5.40	0.45	0.27	0.24	8.00	0.77	0.57	0.40
5.45	0.45	0.28	0.24	8.05	0.78	0.58	0.40
5.50	0.46	0.28	0.24	8.10	0.79	0.59	0.40
5.55	0.46	0.29	0.24	8.15	0.80	0.60	0.41
5.60	0.47	0.29	0.24	8.20	0.80	0.60	0.41
5.65	0.48	0.30	0.24	8.25	0.81	0.61	0.41
5.70	0.48	0.30	0.25	8.30	0.82	0.62	0.42
5.75	0.49	0.30	0.25	8.35	0.83	0.63	0.42
5.80	0.49	0.31	0.25	8.40	0.84	0.63	0.42
5.85	0.50	0.31	0.25	8.45	0.85	0.64	0.43
5.90	0.50	0.32	0.25	8.50	0.85	0.65	0.43
5.95	0.51	0.32	0.25	8.55	0.86	0.66	0.44
6.00	0.51	0.33	0.25	8.60	0.87	0.67	0.44
6.05	0.52	0.33	0.26	8.65	0.88	0.67	0.44
6.10	0.52	0.34	0.26	8.70	0.89	0.68	0.45
6.15	0.53	0.34	0.26	8.75	0.90	0.69	0.45
6.20	0.53	0.35	0.27	8.80	0.91	0.70	0.45
6.25	0.54	0.35	0.27	8.85	0.91	0.71	0.46
6.30	0.54	0.36	0.27	8.90	0.92	0.72	0.46
6.35	0.55	0.36	0.28	8.95	0.93	0.73	0.46
6.40	0.56	0.37	0.28	9.00	0.94	0.73	0.47
6.45	0.56	0.37	0.28	9.05	0.95	0.74	0.48
6.50	0.57	0.38	0.29	9.10	0.96	0.75	0.49
6.55	0.57	0.38	0.29	9.15	0.97	0.76	0.50
6.60	0.58	0.39	0.29	9.20	0.98	0.77	0.51
6.65	0.58	0.40	0.30	9.25	0.99	0.78	0.52
6.70	0.59	0.40	0.30	9.30	1.00	0.79	0.54
6.75	0.60	0.41	0.30	9.35	1.01	0.80	0.55
6.80	0.60	0.41	0.31	9.40	1.02	0.81	0.56
6.85	0.61	0.42	0.31	9.45	1.04	0.83	0.57
6.90	0.62	0.42	0.32	9.50	1.05	0.84	0.59
6.95	0.62	0.43	0.32	9.55	1.06	0.85	0.60
7.00	0.63	0.44	0.32	9.60	1.07	0.86	0.61
7.05	0.64	0.44	0.33	9.65	1.08	0.87	0.63
7.10	0.64	0.45	0.33	9.70	1.10	0.88	0.64
7.15	0.65	0.46	0.33	9.75	1.11	0.90	0.65
7.20	0.66	0.46	0.34	9.80	1.12	0.91	0.67
7.25	0.66	0.47	0.34	9.85	1.13	0.92	0.68
7.30	0.67	0.47	0.34	9.90	1.15	0.94	0.69
7.35	0.68	0.48	0.35	9.95	1.16	0.95	0.71
7.40	0.68	0.49	0.35	10.00	1.18	0.96	0.72
7.45	0.69	0.49	0.36	10.05	1.19	0.98	0.73
7.50	0.70	0.50	0.36	10.10	1.20	0.99	0.74
7.55	0.70	0.51	0.36	10.15	1.22	1.00	0.76
7.60	0.71	0.51	0.37	10.20	1.23	1.02	0.77
7.65	0.72	0.52	0.37	10.25	1.25	1.03	0.78
7.70	0.73	0.53	0.37	10.30	1.27	1.05	0.80
7.75	0.73	0.54	0.38	10.35	1.28	1.06	0.81

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.30	1.08	0.82	13.00	4.90	4.67	1.67
10.45	1.31	1.10	0.84	13.05	4.93	4.69	1.58
10.50	1.33	1.11	0.85	13.10	4.95	4.72	1.48
10.55	1.35	1.13	0.88	13.15	4.98	4.74	1.41
10.60	1.37	1.15	0.92	13.20	5.00	4.76	1.34
10.65	1.39	1.17	0.96	13.25	5.02	4.79	1.29
10.70	1.41	1.19	1.01	13.30	5.04	4.81	1.24
10.75	1.43	1.21	1.06	13.35	5.06	4.83	1.19
10.80	1.45	1.23	1.11	13.40	5.08	4.85	1.13
10.85	1.47	1.25	1.16	13.45	5.10	4.87	1.08
10.90	1.50	1.28	1.21	13.50	5.12	4.88	1.03
10.95	1.52	1.30	1.26	13.55	5.14	4.90	0.99
11.00	1.55	1.33	1.31	13.60	5.15	4.92	0.93
11.05	1.58	1.36	1.38	13.65	5.17	4.93	0.90
11.10	1.61	1.38	1.46	13.70	5.18	4.95	0.88
11.15	1.64	1.42	1.54	13.75	5.20	4.96	0.86
11.20	1.67	1.45	1.64	13.80	5.22	4.98	0.84
11.25	1.71	1.48	1.73	13.85	5.23	4.99	0.83
11.30	1.74	1.52	1.82	13.90	5.25	5.01	0.82
11.35	1.78	1.56	1.91	13.95	5.26	5.02	0.80
11.40	1.82	1.60	2.01	14.00	5.27	5.04	0.79
11.45	1.86	1.64	2.09	14.05	5.29	5.05	0.78
11.50	1.91	1.68	2.17	14.10	5.30	5.06	0.76
11.55	1.97	1.75	2.48	14.15	5.32	5.08	0.75
11.60	2.04	1.81	2.96	14.20	5.33	5.09	0.74
11.65	2.11	1.88	3.26	14.25	5.34	5.10	0.72
11.70	2.17	1.95	3.47	14.30	5.35	5.12	0.71
11.75	2.27	2.04	3.88	14.35	5.37	5.13	0.70
11.80	2.36	2.13	4.44	14.40	5.38	5.14	0.68
11.85	2.49	2.26	5.17	14.45	5.39	5.15	0.67
11.90	2.62	2.39	6.05	14.50	5.40	5.17	0.66
11.95	2.85	2.62	7.65	14.55	5.41	5.18	0.65
12.00	3.07	2.84	9.78	14.60	5.43	5.19	0.63
12.05	3.45	3.22	12.71	14.65	5.44	5.20	0.62
12.10	3.83	3.59	**16.33**	14.70	5.45	5.21	0.61
12.15	3.96	3.72	**15.37**	14.75	5.46	5.22	0.59
12.20	4.09	3.85	11.52	14.80	5.47	5.23	0.58
12.25	4.18	3.95	9.01	14.85	5.48	5.24	0.57
12.30	4.28	4.04	7.13	14.90	5.49	5.25	0.55
12.35	4.34	4.11	5.78	14.95	5.50	5.26	0.54
12.40	4.41	4.18	4.72	15.00	5.51	5.27	0.53
12.45	4.48	4.24	4.16	15.05	5.52	5.28	0.52
12.50	4.54	4.31	3.81	15.10	5.53	5.29	0.50
12.55	4.59	4.35	3.37	15.15	5.54	5.30	0.49
12.60	4.63	4.39	2.84	15.20	5.54	5.31	0.49
12.65	4.67	4.43	2.53	15.25	5.55	5.32	0.48
12.70	4.71	4.47	2.33	15.30	5.56	5.32	0.48
12.75	4.74	4.51	2.18	15.35	5.57	5.33	0.47
12.80	4.78	4.54	2.06	15.40	5.58	5.34	0.47
12.85	4.81	4.57	1.96	15.45	5.59	5.35	0.47
12.90	4.84	4.61	1.86	15.50	5.60	5.36	0.46
12.95	4.87	4.64	1.76	15.55	5.60	5.37	0.46

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.61	5.37	0.46	18.20	5.96	5.72	0.28
15.65	5.62	5.38	0.45	18.25	5.96	5.73	0.28
15.70	5.63	5.39	0.45	18.30	5.97	5.73	0.28
15.75	5.64	5.40	0.45	18.35	5.97	5.74	0.28
15.80	5.65	5.41	0.44	18.40	5.98	5.74	0.28
15.85	5.65	5.42	0.44	18.45	5.99	5.75	0.28
15.90	5.66	5.42	0.44	18.50	5.99	5.75	0.27
15.95	5.67	5.43	0.43	18.55	6.00	5.76	0.27
16.00	5.68	5.44	0.43	18.60	6.00	5.76	0.27
16.05	5.68	5.45	0.43	18.65	6.01	5.77	0.27
16.10	5.69	5.45	0.42	18.70	6.01	5.77	0.27
16.15	5.70	5.46	0.42	18.75	6.02	5.78	0.27
16.20	5.71	5.47	0.42	18.80	6.02	5.78	0.27
16.25	5.72	5.48	0.41	18.85	6.03	5.79	0.27
16.30	5.72	5.49	0.41	18.90	6.03	5.79	0.27
16.35	5.73	5.49	0.40	18.95	6.03	5.80	0.27
16.40	5.74	5.50	0.40	19.00	6.04	5.80	0.27
16.45	5.75	5.51	0.40	19.05	6.04	5.81	0.26
16.50	5.75	5.51	0.39	19.10	6.05	5.81	0.26
16.55	5.76	5.52	0.39	19.15	6.05	5.82	0.26
16.60	5.77	5.53	0.39	19.20	6.06	5.82	0.26
16.65	5.77	5.54	0.38	19.25	6.06	5.83	0.26
16.70	5.78	5.54	0.38	19.30	6.07	5.83	0.26
16.75	5.79	5.55	0.38	19.35	6.07	5.84	0.26
16.80	5.79	5.56	0.37	19.40	6.08	5.84	0.26
16.85	5.80	5.56	0.37	19.45	6.08	5.84	0.26
16.90	5.81	5.57	0.37	19.50	6.09	5.85	0.26
16.95	5.81	5.58	0.36	19.55	6.09	5.85	0.26
17.00	5.82	5.58	0.36	19.60	6.10	5.86	0.26
17.05	5.83	5.59	0.36	19.65	6.10	5.86	0.25
17.10	5.83	5.60	0.35	19.70	6.11	5.87	0.25
17.15	5.84	5.60	0.35	19.75	6.11	5.87	0.25
17.20	5.85	5.61	0.35	19.80	6.12	5.88	0.25
17.25	5.85	5.61	0.34	19.85	6.12	5.88	0.25
17.30	5.86	5.62	0.34	19.90	6.13	5.89	0.25
17.35	5.87	5.63	0.34	19.95	6.13	5.89	0.25
17.40	5.87	5.63	0.33	20.00	6.13	5.90	0.25
17.45	5.88	5.64	0.33	20.05	6.14	5.90	0.25
17.50	5.88	5.65	0.33	20.10	6.14	5.91	0.25
17.55	5.89	5.65	0.32	20.15	6.15	5.91	0.25
17.60	5.89	5.66	0.32	20.20	6.15	5.91	0.24
17.65	5.90	5.66	0.32	20.25	6.16	5.92	0.24
17.70	5.91	5.67	0.31	20.30	6.16	5.92	0.24
17.75	5.91	5.67	0.31	20.35	6.17	5.93	0.24
17.80	5.92	5.68	0.30	20.40	6.17	5.93	0.24
17.85	5.92	5.68	0.30	20.45	6.17	5.94	0.24
17.90	5.93	5.69	0.30	20.50	6.18	5.94	0.24
17.95	5.93	5.70	0.29	20.55	6.18	5.95	0.24
18.00	5.94	5.70	0.29	20.60	6.19	5.95	0.24
18.05	5.94	5.71	0.29	20.65	6.19	5.95	0.24
18.10	5.95	5.71	0.28	20.70	6.20	5.96	0.24
18.15	5.95	5.72	0.28	20.75	6.20	5.96	0.24

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	6.21	5.97	0.23	23.40	6.41	6.17	0.19
20.85	6.21	5.97	0.23	23.45	6.41	6.17	0.19
20.90	6.21	5.98	0.23	23.50	6.41	6.18	0.19
20.95	6.22	5.98	0.23	23.55	6.42	6.18	0.19
21.00	6.22	5.98	0.23	23.60	6.42	6.18	0.19
21.05	6.23	5.99	0.23	23.65	6.42	6.19	0.19
21.10	6.23	5.99	0.23	23.70	6.43	6.19	0.18
21.15	6.24	6.00	0.23	23.75	6.43	6.19	0.18
21.20	6.24	6.00	0.23	23.80	6.44	6.20	0.18
21.25	6.24	6.01	0.23	23.85	6.44	6.20	0.18
21.30	6.25	6.01	0.23	23.90	6.44	6.20	0.18
21.35	6.25	6.01	0.23	23.95	6.45	6.21	0.19
21.40	6.26	6.02	0.22	24.00	**6.45**	**6.21**	0.21
21.45	6.26	6.02	0.22				
21.50	6.26	6.03	0.22				
21.55	6.27	6.03	0.22				
21.60	6.27	6.03	0.22				
21.65	6.28	6.04	0.22				
21.70	6.28	6.04	0.22				
21.75	6.28	6.05	0.22				
21.80	6.29	6.05	0.22				
21.85	6.29	6.05	0.22				
21.90	6.30	6.06	0.22				
21.95	6.30	6.06	0.21				
22.00	6.30	6.07	0.21				
22.05	6.31	6.07	0.21				
22.10	6.31	6.07	0.21				
22.15	6.32	6.08	0.21				
22.20	6.32	6.08	0.21				
22.25	6.32	6.09	0.21				
22.30	6.33	6.09	0.21				
22.35	6.33	6.09	0.21				
22.40	6.34	6.10	0.21				
22.45	6.34	6.10	0.21				
22.50	6.34	6.10	0.20				
22.55	6.35	6.11	0.20				
22.60	6.35	6.11	0.20				
22.65	6.35	6.12	0.20				
22.70	6.36	6.12	0.20				
22.75	6.36	6.12	0.20				
22.80	6.36	6.13	0.20				
22.85	6.37	6.13	0.20				
22.90	6.37	6.13	0.20				
22.95	6.38	6.14	0.20				
23.00	6.38	6.14	0.20				
23.05	6.38	6.14	0.20				
23.10	6.39	6.15	0.19				
23.15	6.39	6.15	0.19				
23.20	6.39	6.16	0.19				
23.25	6.40	6.16	0.19				
23.30	6.40	6.16	0.19				
23.35	6.40	6.17	0.19				

Summary for Subcatchment PDA1B PERV: PDA-1B PERV

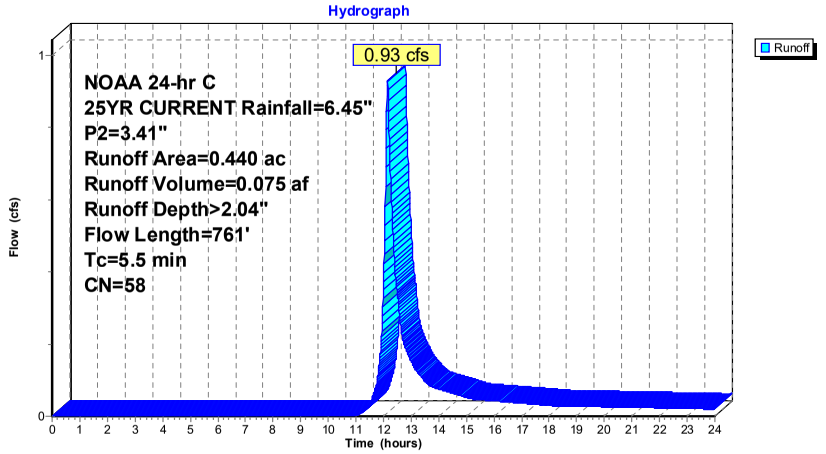
Runoff = 0.93 cfs @ 12.14 hrs, Volume= 0.075 af, Depth> 2.04"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR CURRENT Rainfall=6.45", P2=3.41"

	Area (ac)	CN	Description
	0.250	39	>75% Grass cover, Good, HSG A
*	0.190	84	>75% Grass cover, Good, HSG D
	0.440	58	Weighted Average
	0.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	93	0.0100	1.06		**Sheet Flow, Grass** Smooth surfaces n= 0.011 P2= 3.41"
0.8	74	0.0100	1.50		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.3	93	0.0110	5.40	9.55	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
5.5	761	Total			

Subcatchment PDA1B PERV: PDA-1B PERV



Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.20	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.20	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.21	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.21	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.21	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.22	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.22	0.00	0.00
0.40	0.03	0.00	0.00	3.00	0.23	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.23	0.00	0.00
0.50	0.04	0.00	0.00	3.10	0.24	0.00	0.00
0.55	0.04	0.00	0.00	3.15	0.24	0.00	0.00
0.60	0.04	0.00	0.00	3.20	0.24	0.00	0.00
0.65	0.05	0.00	0.00	3.25	0.25	0.00	0.00
0.70	0.05	0.00	0.00	3.30	0.25	0.00	0.00
0.75	0.05	0.00	0.00	3.35	0.26	0.00	0.00
0.80	0.06	0.00	0.00	3.40	0.26	0.00	0.00
0.85	0.06	0.00	0.00	3.45	0.27	0.00	0.00
0.90	0.06	0.00	0.00	3.50	0.27	0.00	0.00
0.95	0.07	0.00	0.00	3.55	0.28	0.00	0.00
1.00	0.07	0.00	0.00	3.60	0.28	0.00	0.00
1.05	0.07	0.00	0.00	3.65	0.28	0.00	0.00
1.10	0.08	0.00	0.00	3.70	0.29	0.00	0.00
1.15	0.08	0.00	0.00	3.75	0.29	0.00	0.00
1.20	0.09	0.00	0.00	3.80	0.30	0.00	0.00
1.25	0.09	0.00	0.00	3.85	0.30	0.00	0.00
1.30	0.09	0.00	0.00	3.90	0.31	0.00	0.00
1.35	0.10	0.00	0.00	3.95	0.31	0.00	0.00
1.40	0.10	0.00	0.00	4.00	0.32	0.00	0.00
1.45	0.10	0.00	0.00	4.05	0.32	0.00	0.00
1.50	0.11	0.00	0.00	4.10	0.32	0.00	0.00
1.55	0.11	0.00	0.00	4.15	0.33	0.00	0.00
1.60	0.11	0.00	0.00	4.20	0.33	0.00	0.00
1.65	0.12	0.00	0.00	4.25	0.34	0.00	0.00
1.70	0.12	0.00	0.00	4.30	0.34	0.00	0.00
1.75	0.13	0.00	0.00	4.35	0.35	0.00	0.00
1.80	0.13	0.00	0.00	4.40	0.35	0.00	0.00
1.85	0.13	0.00	0.00	4.45	0.36	0.00	0.00
1.90	0.14	0.00	0.00	4.50	0.36	0.00	0.00
1.95	0.14	0.00	0.00	4.55	0.37	0.00	0.00
2.00	0.15	0.00	0.00	4.60	0.37	0.00	0.00
2.05	0.15	0.00	0.00	4.65	0.38	0.00	0.00
2.10	0.15	0.00	0.00	4.70	0.38	0.00	0.00
2.15	0.16	0.00	0.00	4.75	0.39	0.00	0.00
2.20	0.16	0.00	0.00	4.80	0.39	0.00	0.00
2.25	0.17	0.00	0.00	4.85	0.40	0.00	0.00
2.30	0.17	0.00	0.00	4.90	0.40	0.00	0.00
2.35	0.17	0.00	0.00	4.95	0.41	0.00	0.00
2.40	0.18	0.00	0.00	5.00	0.41	0.00	0.00
2.45	0.18	0.00	0.00	5.05	0.42	0.00	0.00
2.50	0.19	0.00	0.00	5.10	0.42	0.00	0.00
2.55	0.19	0.00	0.00	5.15	0.42	0.00	0.00

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.43	0.00	0.00	7.80	0.74	0.00	0.00
5.25	0.43	0.00	0.00	7.85	0.75	0.00	0.00
5.30	0.44	0.00	0.00	7.90	0.76	0.00	0.00
5.35	0.44	0.00	0.00	7.95	0.77	0.00	0.00
5.40	0.45	0.00	0.00	8.00	0.77	0.00	0.00
5.45	0.45	0.00	0.00	8.05	0.78	0.00	0.00
5.50	0.46	0.00	0.00	8.10	0.79	0.00	0.00
5.55	0.46	0.00	0.00	8.15	0.80	0.00	0.00
5.60	0.47	0.00	0.00	8.20	0.80	0.00	0.00
5.65	0.48	0.00	0.00	8.25	0.81	0.00	0.00
5.70	0.48	0.00	0.00	8.30	0.82	0.00	0.00
5.75	0.49	0.00	0.00	8.35	0.83	0.00	0.00
5.80	0.49	0.00	0.00	8.40	0.84	0.00	0.00
5.85	0.50	0.00	0.00	8.45	0.85	0.00	0.00
5.90	0.50	0.00	0.00	8.50	0.85	0.00	0.00
5.95	0.51	0.00	0.00	8.55	0.86	0.00	0.00
6.00	0.51	0.00	0.00	8.60	0.87	0.00	0.00
6.05	0.52	0.00	0.00	8.65	0.88	0.00	0.00
6.10	0.52	0.00	0.00	8.70	0.89	0.00	0.00
6.15	0.53	0.00	0.00	8.75	0.90	0.00	0.00
6.20	0.53	0.00	0.00	8.80	0.91	0.00	0.00
6.25	0.54	0.00	0.00	8.85	0.91	0.00	0.00
6.30	0.54	0.00	0.00	8.90	0.92	0.00	0.00
6.35	0.55	0.00	0.00	8.95	0.93	0.00	0.00
6.40	0.56	0.00	0.00	9.00	0.94	0.00	0.00
6.45	0.56	0.00	0.00	9.05	0.95	0.00	0.00
6.50	0.57	0.00	0.00	9.10	0.96	0.00	0.00
6.55	0.57	0.00	0.00	9.15	0.97	0.00	0.00
6.60	0.58	0.00	0.00	9.20	0.98	0.00	0.00
6.65	0.58	0.00	0.00	9.25	0.99	0.00	0.00
6.70	0.59	0.00	0.00	9.30	1.00	0.00	0.00
6.75	0.60	0.00	0.00	9.35	1.01	0.00	0.00
6.80	0.60	0.00	0.00	9.40	1.02	0.00	0.00
6.85	0.61	0.00	0.00	9.45	1.04	0.00	0.00
6.90	0.62	0.00	0.00	9.50	1.05	0.00	0.00
6.95	0.62	0.00	0.00	9.55	1.06	0.00	0.00
7.00	0.63	0.00	0.00	9.60	1.07	0.00	0.00
7.05	0.64	0.00	0.00	9.65	1.08	0.00	0.00
7.10	0.64	0.00	0.00	9.70	1.10	0.00	0.00
7.15	0.65	0.00	0.00	9.75	1.11	0.00	0.00
7.20	0.66	0.00	0.00	9.80	1.12	0.00	0.00
7.25	0.66	0.00	0.00	9.85	1.13	0.00	0.00
7.30	0.67	0.00	0.00	9.90	1.15	0.00	0.00
7.35	0.68	0.00	0.00	9.95	1.16	0.00	0.00
7.40	0.68	0.00	0.00	10.00	1.18	0.00	0.00
7.45	0.69	0.00	0.00	10.05	1.19	0.00	0.00
7.50	0.70	0.00	0.00	10.10	1.20	0.00	0.00
7.55	0.70	0.00	0.00	10.15	1.22	0.00	0.00
7.60	0.71	0.00	0.00	10.20	1.23	0.00	0.00
7.65	0.72	0.00	0.00	10.25	1.25	0.00	0.00
7.70	0.73	0.00	0.00	10.30	1.27	0.00	0.00
7.75	0.73	0.00	0.00	10.35	1.28	0.00	0.00

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.30	0.00	0.00	13.00	4.90	1.12	0.15
10.45	1.31	0.00	0.00	13.05	4.93	1.13	0.15
10.50	1.33	0.00	0.00	13.10	4.95	1.14	0.14
10.55	1.35	0.00	0.00	13.15	4.98	1.16	0.13
10.60	1.37	0.00	0.00	13.20	5.00	1.17	0.12
10.65	1.39	0.00	0.00	13.25	5.02	1.18	0.12
10.70	1.41	0.00	0.00	13.30	5.04	1.19	0.12
10.75	1.43	0.00	0.00	13.35	5.06	1.20	0.11
10.80	1.45	0.00	0.00	13.40	5.08	1.22	0.11
10.85	1.47	0.00	0.00	13.45	5.10	1.23	0.10
10.90	1.50	0.00	0.00	13.50	5.12	1.24	0.10
10.95	1.52	0.00	0.00	13.55	5.14	1.24	0.09
11.00	1.55	0.00	0.00	13.60	5.15	1.25	0.09
11.05	1.58	0.00	0.00	13.65	5.17	1.26	0.09
11.10	1.61	0.00	0.01	13.70	5.18	1.27	0.08
11.15	1.64	0.00	0.01	13.75	5.20	1.28	0.08
11.20	1.67	0.01	0.01	13.80	5.22	1.29	0.08
11.25	1.71	0.01	0.01	13.85	5.23	1.30	0.08
11.30	1.74	0.01	0.02	13.90	5.25	1.31	0.08
11.35	1.78	0.01	0.02	13.95	5.26	1.31	0.08
11.40	1.82	0.02	0.02	14.00	5.27	1.32	0.07
11.45	1.86	0.02	0.03	14.05	5.29	1.33	0.07
11.50	1.91	0.03	0.03	14.10	5.30	1.34	0.07
11.55	1.97	0.04	0.04	14.15	5.32	1.35	0.07
11.60	2.04	0.04	0.05	14.20	5.33	1.35	0.07
11.65	2.11	0.05	0.06	14.25	5.34	1.36	0.07
11.70	2.17	0.07	0.08	14.30	5.35	1.37	0.07
11.75	2.27	0.08	0.09	14.35	5.37	1.38	0.07
11.80	2.36	0.10	0.12	14.40	5.38	1.38	0.07
11.85	2.49	0.13	0.15	14.45	5.39	1.39	0.06
11.90	2.62	0.16	0.19	14.50	5.40	1.40	0.06
11.95	2.85	0.23	0.26	14.55	5.41	1.40	0.06
12.00	3.07	0.30	0.37	14.60	5.43	1.41	0.06
12.05	3.45	0.43	0.53	14.65	5.44	1.42	0.06
12.10	3.83	0.59	**0.80**	14.70	5.45	1.42	0.06
12.15	3.96	0.65	**0.93**	14.75	5.46	1.43	0.06
12.20	4.09	0.71	0.79	14.80	5.47	1.44	0.06
12.25	4.18	0.75	0.68	14.85	5.48	1.44	0.06
12.30	4.28	0.79	0.58	14.90	5.49	1.45	0.05
12.35	4.34	0.83	0.50	14.95	5.50	1.45	0.05
12.40	4.41	0.86	0.42	15.00	5.51	1.46	0.05
12.45	4.48	0.89	0.37	15.05	5.52	1.46	0.05
12.50	4.54	0.93	0.34	15.10	5.53	1.47	0.05
12.55	4.59	0.95	0.31	15.15	5.54	1.47	0.05
12.60	4.63	0.97	0.26	15.20	5.54	1.48	0.05
12.65	4.67	0.99	0.23	15.25	5.55	1.48	0.05
12.70	4.71	1.01	0.21	15.30	5.56	1.49	0.05
12.75	4.74	1.03	0.20	15.35	5.57	1.50	0.05
12.80	4.78	1.05	0.19	15.40	5.58	1.50	0.05
12.85	4.81	1.07	0.18	15.45	5.59	1.51	0.05
12.90	4.84	1.08	0.17	15.50	5.60	1.51	0.05
12.95	4.87	1.10	0.16	15.55	5.60	1.52	0.05

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.61	1.52	0.04	18.20	5.96	1.73	0.03
15.65	5.62	1.53	0.04	18.25	5.96	1.73	0.03
15.70	5.63	1.53	0.04	18.30	5.97	1.74	0.03
15.75	5.64	1.54	0.04	18.35	5.97	1.74	0.03
15.80	5.65	1.54	0.04	18.40	5.98	1.74	0.03
15.85	5.65	1.54	0.04	18.45	5.99	1.75	0.03
15.90	5.66	1.55	0.04	18.50	5.99	1.75	0.03
15.95	5.67	1.55	0.04	18.55	6.00	1.75	0.03
16.00	5.68	1.56	0.04	18.60	6.00	1.76	0.03
16.05	5.68	1.56	0.04	18.65	6.01	1.76	0.03
16.10	5.69	1.57	0.04	18.70	6.01	1.76	0.03
16.15	5.70	1.57	0.04	18.75	6.02	1.77	0.03
16.20	5.71	1.58	0.04	18.80	6.02	1.77	0.03
16.25	5.72	1.58	0.04	18.85	6.03	1.77	0.03
16.30	5.72	1.59	0.04	18.90	6.03	1.78	0.03
16.35	5.73	1.59	0.04	18.95	6.03	1.78	0.03
16.40	5.74	1.60	0.04	19.00	6.04	1.78	0.03
16.45	5.75	1.60	0.04	19.05	6.04	1.78	0.03
16.50	5.75	1.60	0.04	19.10	6.05	1.79	0.03
16.55	5.76	1.61	0.04	19.15	6.05	1.79	0.03
16.60	5.77	1.61	0.04	19.20	6.06	1.79	0.03
16.65	5.77	1.62	0.04	19.25	6.06	1.80	0.03
16.70	5.78	1.62	0.04	19.30	6.07	1.80	0.03
16.75	5.79	1.63	0.04	19.35	6.07	1.80	0.03
16.80	5.79	1.63	0.04	19.40	6.08	1.81	0.03
16.85	5.80	1.63	0.04	19.45	6.08	1.81	0.03
16.90	5.81	1.64	0.04	19.50	6.09	1.81	0.03
16.95	5.81	1.64	0.04	19.55	6.09	1.81	0.03
17.00	5.82	1.65	0.04	19.60	6.10	1.82	0.03
17.05	5.83	1.65	0.04	19.65	6.10	1.82	0.03
17.10	5.83	1.65	0.04	19.70	6.11	1.82	0.03
17.15	5.84	1.66	0.04	19.75	6.11	1.83	0.03
17.20	5.85	1.66	0.04	19.80	6.12	1.83	0.03
17.25	5.85	1.67	0.03	19.85	6.12	1.83	0.03
17.30	5.86	1.67	0.03	19.90	6.13	1.84	0.03
17.35	5.87	1.67	0.03	19.95	6.13	1.84	0.03
17.40	5.87	1.68	0.03	20.00	6.13	1.84	0.03
17.45	5.88	1.68	0.03	20.05	6.14	1.84	0.03
17.50	5.88	1.68	0.03	20.10	6.14	1.85	0.03
17.55	5.89	1.69	0.03	20.15	6.15	1.85	0.03
17.60	5.89	1.69	0.03	20.20	6.15	1.85	0.03
17.65	5.90	1.70	0.03	20.25	6.16	1.86	0.03
17.70	5.91	1.70	0.03	20.30	6.16	1.86	0.03
17.75	5.91	1.70	0.03	20.35	6.17	1.86	0.03
17.80	5.92	1.71	0.03	20.40	6.17	1.86	0.03
17.85	5.92	1.71	0.03	20.45	6.17	1.87	0.03
17.90	5.93	1.71	0.03	20.50	6.18	1.87	0.02
17.95	5.93	1.72	0.03	20.55	6.18	1.87	0.02
18.00	5.94	1.72	0.03	20.60	6.19	1.88	0.02
18.05	5.94	1.72	0.03	20.65	6.19	1.88	0.02
18.10	5.95	1.73	0.03	20.70	6.20	1.88	0.02
18.15	5.95	1.73	0.03	20.75	6.20	1.88	0.02

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	6.21	1.89	0.02	23.40	6.41	2.02	0.02
20.85	6.21	1.89	0.02	23.45	6.41	2.02	0.02
20.90	6.21	1.89	0.02	23.50	6.41	2.02	0.02
20.95	6.22	1.89	0.02	23.55	6.42	2.02	0.02
21.00	6.22	1.90	0.02	23.60	6.42	2.02	0.02
21.05	6.23	1.90	0.02	23.65	6.42	2.03	0.02
21.10	6.23	1.90	0.02	23.70	6.43	2.03	0.02
21.15	6.24	1.90	0.02	23.75	6.43	2.03	0.02
21.20	6.24	1.91	0.02	23.80	6.44	2.03	0.02
21.25	6.24	1.91	0.02	23.85	6.44	2.04	0.02
21.30	6.25	1.91	0.02	23.90	6.44	2.04	0.02
21.35	6.25	1.92	0.02	23.95	6.45	2.04	0.02
21.40	6.26	1.92	0.02	24.00	**6.45**	**2.04**	0.02
21.45	6.26	1.92	0.02				
21.50	6.26	1.92	0.02				
21.55	6.27	1.93	0.02				
21.60	6.27	1.93	0.02				
21.65	6.28	1.93	0.02				
21.70	6.28	1.93	0.02				
21.75	6.28	1.94	0.02				
21.80	6.29	1.94	0.02				
21.85	6.29	1.94	0.02				
21.90	6.30	1.94	0.02				
21.95	6.30	1.95	0.02				
22.00	6.30	1.95	0.02				
22.05	6.31	1.95	0.02				
22.10	6.31	1.95	0.02				
22.15	6.32	1.96	0.02				
22.20	6.32	1.96	0.02				
22.25	6.32	1.96	0.02				
22.30	6.33	1.96	0.02				
22.35	6.33	1.97	0.02				
22.40	6.34	1.97	0.02				
22.45	6.34	1.97	0.02				
22.50	6.34	1.97	0.02				
22.55	6.35	1.98	0.02				
22.60	6.35	1.98	0.02				
22.65	6.35	1.98	0.02				
22.70	6.36	1.98	0.02				
22.75	6.36	1.99	0.02				
22.80	6.36	1.99	0.02				
22.85	6.37	1.99	0.02				
22.90	6.37	1.99	0.02				
22.95	6.38	2.00	0.02				
23.00	6.38	2.00	0.02				
23.05	6.38	2.00	0.02				
23.10	6.39	2.00	0.02				
23.15	6.39	2.00	0.02				
23.20	6.39	2.01	0.02				
23.25	6.40	2.01	0.02				
23.30	6.40	2.01	0.02				
23.35	6.40	2.01	0.02				

Summary for Subcatchment PDA2 IMP: PDA2 IMP

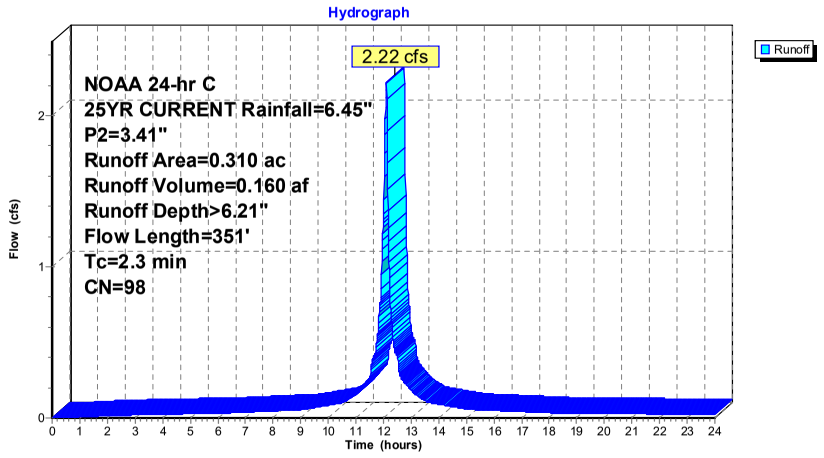
Runoff = 2.22 cfs @ 12.11 hrs, Volume= 0.160 af, Depth> 6.21"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR CURRENT Rainfall=6.45", P2=3.41"

	Area (ac)	CN	Description
*	0.310	98	Impervious vehicular
	0.310		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0180	1.36		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
1.1	251	0.0360	3.85		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
2.3	351	Total			

Subcatchment PDA2 IMP: PDA2 IMP



Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.07	0.02
0.05	0.00	0.00	0.00	2.65	0.20	0.07	0.02
0.10	0.01	0.00	0.00	2.70	0.20	0.07	0.02
0.15	0.01	0.00	0.00	2.75	0.21	0.07	0.02
0.20	0.01	0.00	0.00	2.80	0.21	0.08	0.02
0.25	0.02	0.00	0.00	2.85	0.21	0.08	0.02
0.30	0.02	0.00	0.00	2.90	0.22	0.08	0.02
0.35	0.03	0.00	0.00	2.95	0.22	0.09	0.02
0.40	0.03	0.00	0.00	3.00	0.23	0.09	0.02
0.45	0.03	0.00	0.00	3.05	0.23	0.09	0.02
0.50	0.04	0.00	0.00	3.10	0.24	0.10	0.02
0.55	0.04	0.00	0.00	3.15	0.24	0.10	0.02
0.60	0.04	0.00	0.00	3.20	0.24	0.10	0.02
0.65	0.05	0.00	0.00	3.25	0.25	0.11	0.02
0.70	0.05	0.00	0.00	3.30	0.25	0.11	0.02
0.75	0.05	0.00	0.00	3.35	0.26	0.11	0.02
0.80	0.06	0.00	0.00	3.40	0.26	0.12	0.02
0.85	0.06	0.00	0.00	3.45	0.27	0.12	0.02
0.90	0.06	0.00	0.00	3.50	0.27	0.12	0.02
0.95	0.07	0.00	0.00	3.55	0.28	0.13	0.02
1.00	0.07	0.00	0.00	3.60	0.28	0.13	0.02
1.05	0.07	0.00	0.01	3.65	0.28	0.13	0.02
1.10	0.08	0.01	0.01	3.70	0.29	0.14	0.02
1.15	0.08	0.01	0.01	3.75	0.29	0.14	0.02
1.20	0.09	0.01	0.01	3.80	0.30	0.14	0.02
1.25	0.09	0.01	0.01	3.85	0.30	0.15	0.02
1.30	0.09	0.01	0.01	3.90	0.31	0.15	0.02
1.35	0.10	0.01	0.01	3.95	0.31	0.15	0.02
1.40	0.10	0.01	0.01	4.00	0.32	0.16	0.02
1.45	0.10	0.01	0.01	4.05	0.32	0.16	0.02
1.50	0.11	0.02	0.01	4.10	0.32	0.17	0.02
1.55	0.11	0.02	0.01	4.15	0.33	0.17	0.02
1.60	0.11	0.02	0.01	4.20	0.33	0.17	0.02
1.65	0.12	0.02	0.01	4.25	0.34	0.18	0.02
1.70	0.12	0.02	0.01	4.30	0.34	0.18	0.02
1.75	0.13	0.03	0.01	4.35	0.35	0.18	0.02
1.80	0.13	0.03	0.01	4.40	0.35	0.19	0.02
1.85	0.13	0.03	0.01	4.45	0.36	0.19	0.02
1.90	0.14	0.03	0.01	4.50	0.36	0.20	0.02
1.95	0.14	0.03	0.01	4.55	0.37	0.20	0.03
2.00	0.15	0.04	0.01	4.60	0.37	0.20	0.03
2.05	0.15	0.04	0.01	4.65	0.38	0.21	0.03
2.10	0.15	0.04	0.01	4.70	0.38	0.21	0.03
2.15	0.16	0.04	0.01	4.75	0.39	0.22	0.03
2.20	0.16	0.04	0.01	4.80	0.39	0.22	0.03
2.25	0.17	0.05	0.02	4.85	0.40	0.23	0.03
2.30	0.17	0.05	0.02	4.90	0.40	0.23	0.03
2.35	0.17	0.05	0.02	4.95	0.41	0.23	0.03
2.40	0.18	0.05	0.02	5.00	0.41	0.24	0.03
2.45	0.18	0.06	0.02	5.05	0.42	0.24	0.03
2.50	0.19	0.06	0.02	5.10	0.42	0.25	0.03
2.55	0.19	0.06	0.02	5.15	0.42	0.25	0.03

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.43	0.26	0.03	7.80	0.74	0.54	0.04
5.25	0.43	0.26	0.03	7.85	0.75	0.55	0.04
5.30	0.44	0.26	0.03	7.90	0.76	0.56	0.05
5.35	0.44	0.27	0.03	7.95	0.77	0.56	0.05
5.40	0.45	0.27	0.03	8.00	0.77	0.57	0.05
5.45	0.45	0.28	0.03	8.05	0.78	0.58	0.05
5.50	0.46	0.28	0.03	8.10	0.79	0.59	0.05
5.55	0.46	0.29	0.03	8.15	0.80	0.60	0.05
5.60	0.47	0.29	0.03	8.20	0.80	0.60	0.05
5.65	0.48	0.30	0.03	8.25	0.81	0.61	0.05
5.70	0.48	0.30	0.03	8.30	0.82	0.62	0.05
5.75	0.49	0.30	0.03	8.35	0.83	0.63	0.05
5.80	0.49	0.31	0.03	8.40	0.84	0.63	0.05
5.85	0.50	0.31	0.03	8.45	0.85	0.64	0.05
5.90	0.50	0.32	0.03	8.50	0.85	0.65	0.05
5.95	0.51	0.32	0.03	8.55	0.86	0.66	0.05
6.00	0.51	0.33	0.03	8.60	0.87	0.67	0.05
6.05	0.52	0.33	0.03	8.65	0.88	0.67	0.05
6.10	0.52	0.34	0.03	8.70	0.89	0.68	0.05
6.15	0.53	0.34	0.03	8.75	0.90	0.69	0.05
6.20	0.53	0.35	0.03	8.80	0.91	0.70	0.05
6.25	0.54	0.35	0.03	8.85	0.91	0.71	0.05
6.30	0.54	0.36	0.03	8.90	0.92	0.72	0.05
6.35	0.55	0.36	0.03	8.95	0.93	0.73	0.05
6.40	0.56	0.37	0.03	9.00	0.94	0.73	0.05
6.45	0.56	0.37	0.03	9.05	0.95	0.74	0.06
6.50	0.57	0.38	0.03	9.10	0.96	0.75	0.06
6.55	0.57	0.38	0.03	9.15	0.97	0.76	0.06
6.60	0.58	0.39	0.03	9.20	0.98	0.77	0.06
6.65	0.58	0.40	0.03	9.25	0.99	0.78	0.06
6.70	0.59	0.40	0.04	9.30	1.00	0.79	0.06
6.75	0.60	0.41	0.04	9.35	1.01	0.80	0.07
6.80	0.60	0.41	0.04	9.40	1.02	0.81	0.07
6.85	0.61	0.42	0.04	9.45	1.04	0.83	0.07
6.90	0.62	0.42	0.04	9.50	1.05	0.84	0.07
6.95	0.62	0.43	0.04	9.55	1.06	0.85	0.07
7.00	0.63	0.44	0.04	9.60	1.07	0.86	0.07
7.05	0.64	0.44	0.04	9.65	1.08	0.87	0.07
7.10	0.64	0.45	0.04	9.70	1.10	0.88	0.08
7.15	0.65	0.46	0.04	9.75	1.11	0.90	0.08
7.20	0.66	0.46	0.04	9.80	1.12	0.91	0.08
7.25	0.66	0.47	0.04	9.85	1.13	0.92	0.08
7.30	0.67	0.47	0.04	9.90	1.15	0.94	0.08
7.35	0.68	0.48	0.04	9.95	1.16	0.95	0.08
7.40	0.68	0.49	0.04	10.00	1.18	0.96	0.08
7.45	0.69	0.49	0.04	10.05	1.19	0.98	0.09
7.50	0.70	0.50	0.04	10.10	1.20	0.99	0.09
7.55	0.70	0.51	0.04	10.15	1.22	1.00	0.09
7.60	0.71	0.51	0.04	10.20	1.23	1.02	0.09
7.65	0.72	0.52	0.04	10.25	1.25	1.03	0.09
7.70	0.73	0.53	0.04	10.30	1.27	1.05	0.09
7.75	0.73	0.54	0.04	10.35	1.28	1.06	0.10

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.30	1.08	0.10	13.00	4.90	4.67	0.18
10.45	1.31	1.10	0.10	13.05	4.93	4.69	0.17
10.50	1.33	1.11	0.10	13.10	4.95	4.72	0.16
10.55	1.35	1.13	0.11	13.15	4.98	4.74	0.15
10.60	1.37	1.15	0.11	13.20	5.00	4.76	0.15
10.65	1.39	1.17	0.12	13.25	5.02	4.79	0.14
10.70	1.41	1.19	0.12	13.30	5.04	4.81	0.14
10.75	1.43	1.21	0.13	13.35	5.06	4.83	0.13
10.80	1.45	1.23	0.13	13.40	5.08	4.85	0.13
10.85	1.47	1.25	0.14	13.45	5.10	4.87	0.12
10.90	1.50	1.28	0.14	13.50	5.12	4.88	0.12
10.95	1.52	1.30	0.15	13.55	5.14	4.90	0.11
11.00	1.55	1.33	0.16	13.60	5.15	4.92	0.10
11.05	1.58	1.36	0.17	13.65	5.17	4.93	0.10
11.10	1.61	1.38	0.18	13.70	5.18	4.95	0.10
11.15	1.64	1.42	0.19	13.75	5.20	4.96	0.10
11.20	1.67	1.45	0.20	13.80	5.22	4.98	0.10
11.25	1.71	1.48	0.21	13.85	5.23	4.99	0.09
11.30	1.74	1.52	0.22	13.90	5.25	5.01	0.09
11.35	1.78	1.56	0.23	13.95	5.26	5.02	0.09
11.40	1.82	1.60	0.24	14.00	5.27	5.04	0.09
11.45	1.86	1.64	0.25	14.05	5.29	5.05	0.09
11.50	1.91	1.68	0.26	14.10	5.30	5.06	0.09
11.55	1.97	1.75	0.34	14.15	5.32	5.08	0.09
11.60	2.04	1.81	0.38	14.20	5.33	5.09	0.08
11.65	2.11	1.88	0.41	14.25	5.34	5.10	0.08
11.70	2.17	1.95	0.42	14.30	5.35	5.12	0.08
11.75	2.27	2.04	0.51	14.35	5.37	5.13	0.08
11.80	2.36	2.13	0.56	14.40	5.38	5.14	0.08
11.85	2.49	2.26	0.70	14.45	5.39	5.15	0.08
11.90	2.62	2.39	0.78	14.50	5.40	5.17	0.08
11.95	2.85	2.62	1.11	14.55	5.41	5.18	0.07
12.00	3.07	2.84	1.32	14.60	5.43	5.19	0.07
12.05	3.45	3.22	1.88	14.65	5.44	5.20	0.07
12.10	3.83	3.59	**2.20**	14.70	5.45	5.21	0.07
12.15	3.96	3.72	**1.51**	14.75	5.46	5.22	0.07
12.20	4.09	3.85	1.03	14.80	5.47	5.23	0.07
12.25	4.18	3.95	0.75	14.85	5.48	5.24	0.06
12.30	4.28	4.04	0.63	14.90	5.49	5.25	0.06
12.35	4.34	4.11	0.51	14.95	5.50	5.26	0.06
12.40	4.41	4.18	0.45	15.00	5.51	5.27	0.06
12.45	4.48	4.24	0.42	15.05	5.52	5.28	0.06
12.50	4.54	4.31	0.41	15.10	5.53	5.29	0.06
12.55	4.59	4.35	0.33	15.15	5.54	5.30	0.06
12.60	4.63	4.39	0.28	15.20	5.54	5.31	0.06
12.65	4.67	4.43	0.26	15.25	5.55	5.32	0.06
12.70	4.71	4.47	0.25	15.30	5.56	5.32	0.05
12.75	4.74	4.51	0.24	15.35	5.57	5.33	0.05
12.80	4.78	4.54	0.23	15.40	5.58	5.34	0.05
12.85	4.81	4.57	0.21	15.45	5.59	5.35	0.05
12.90	4.84	4.61	0.21	15.50	5.60	5.36	0.05
12.95	4.87	4.64	0.19	15.55	5.60	5.37	0.05

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.61	5.37	0.05	18.20	5.96	5.72	0.03
15.65	5.62	5.38	0.05	18.25	5.96	5.73	0.03
15.70	5.63	5.39	0.05	18.30	5.97	5.73	0.03
15.75	5.64	5.40	0.05	18.35	5.97	5.74	0.03
15.80	5.65	5.41	0.05	18.40	5.98	5.74	0.03
15.85	5.65	5.42	0.05	18.45	5.99	5.75	0.03
15.90	5.66	5.42	0.05	18.50	5.99	5.75	0.03
15.95	5.67	5.43	0.05	18.55	6.00	5.76	0.03
16.00	5.68	5.44	0.05	18.60	6.00	5.76	0.03
16.05	5.68	5.45	0.05	18.65	6.01	5.77	0.03
16.10	5.69	5.45	0.05	18.70	6.01	5.77	0.03
16.15	5.70	5.46	0.05	18.75	6.02	5.78	0.03
16.20	5.71	5.47	0.05	18.80	6.02	5.78	0.03
16.25	5.72	5.48	0.05	18.85	6.03	5.79	0.03
16.30	5.72	5.49	0.05	18.90	6.03	5.79	0.03
16.35	5.73	5.49	0.05	18.95	6.03	5.80	0.03
16.40	5.74	5.50	0.05	19.00	6.04	5.80	0.03
16.45	5.75	5.51	0.05	19.05	6.04	5.81	0.03
16.50	5.75	5.51	0.05	19.10	6.05	5.81	0.03
16.55	5.76	5.52	0.04	19.15	6.05	5.82	0.03
16.60	5.77	5.53	0.04	19.20	6.06	5.82	0.03
16.65	5.77	5.54	0.04	19.25	6.06	5.83	0.03
16.70	5.78	5.54	0.04	19.30	6.07	5.83	0.03
16.75	5.79	5.55	0.04	19.35	6.07	5.84	0.03
16.80	5.79	5.56	0.04	19.40	6.08	5.84	0.03
16.85	5.80	5.56	0.04	19.45	6.08	5.84	0.03
16.90	5.81	5.57	0.04	19.50	6.09	5.85	0.03
16.95	5.81	5.58	0.04	19.55	6.09	5.85	0.03
17.00	5.82	5.58	0.04	19.60	6.10	5.86	0.03
17.05	5.83	5.59	0.04	19.65	6.10	5.86	0.03
17.10	5.83	5.60	0.04	19.70	6.11	5.87	0.03
17.15	5.84	5.60	0.04	19.75	6.11	5.87	0.03
17.20	5.85	5.61	0.04	19.80	6.12	5.88	0.03
17.25	5.85	5.61	0.04	19.85	6.12	5.88	0.03
17.30	5.86	5.62	0.04	19.90	6.13	5.89	0.03
17.35	5.87	5.63	0.04	19.95	6.13	5.89	0.03
17.40	5.87	5.63	0.04	20.00	6.13	5.90	0.03
17.45	5.88	5.64	0.04	20.05	6.14	5.90	0.03
17.50	5.88	5.65	0.04	20.10	6.14	5.91	0.03
17.55	5.89	5.65	0.04	20.15	6.15	5.91	0.03
17.60	5.89	5.66	0.04	20.20	6.15	5.91	0.03
17.65	5.90	5.66	0.04	20.25	6.16	5.92	0.03
17.70	5.91	5.67	0.04	20.30	6.16	5.92	0.03
17.75	5.91	5.67	0.04	20.35	6.17	5.93	0.03
17.80	5.92	5.68	0.03	20.40	6.17	5.93	0.03
17.85	5.92	5.68	0.03	20.45	6.17	5.94	0.03
17.90	5.93	5.69	0.03	20.50	6.18	5.94	0.03
17.95	5.93	5.70	0.03	20.55	6.18	5.95	0.03
18.00	5.94	5.70	0.03	20.60	6.19	5.95	0.03
18.05	5.94	5.71	0.03	20.65	6.19	5.95	0.03
18.10	5.95	5.71	0.03	20.70	6.20	5.96	0.03
18.15	5.95	5.72	0.03	20.75	6.20	5.96	0.03

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	6.21	5.97	0.03	23.40	6.41	6.17	0.02
20.85	6.21	5.97	0.03	23.45	6.41	6.17	0.02
20.90	6.21	5.98	0.03	23.50	6.41	6.18	0.02
20.95	6.22	5.98	0.03	23.55	6.42	6.18	0.02
21.00	6.22	5.98	0.03	23.60	6.42	6.18	0.02
21.05	6.23	5.99	0.03	23.65	6.42	6.19	0.02
21.10	6.23	5.99	0.03	23.70	6.43	6.19	0.02
21.15	6.24	6.00	0.03	23.75	6.43	6.19	0.02
21.20	6.24	6.00	0.03	23.80	6.44	6.20	0.02
21.25	6.24	6.01	0.03	23.85	6.44	6.20	0.02
21.30	6.25	6.01	0.03	23.90	6.44	6.20	0.02
21.35	6.25	6.01	0.03	23.95	6.45	6.21	0.02
21.40	6.26	6.02	0.03	24.00	**6.45**	**6.21**	0.03
21.45	6.26	6.02	0.03				
21.50	6.26	6.03	0.03				
21.55	6.27	6.03	0.03				
21.60	6.27	6.03	0.03				
21.65	6.28	6.04	0.03				
21.70	6.28	6.04	0.03				
21.75	6.28	6.05	0.03				
21.80	6.29	6.05	0.03				
21.85	6.29	6.05	0.02				
21.90	6.30	6.06	0.02				
21.95	6.30	6.06	0.02				
22.00	6.30	6.07	0.02				
22.05	6.31	6.07	0.02				
22.10	6.31	6.07	0.02				
22.15	6.32	6.08	0.02				
22.20	6.32	6.08	0.02				
22.25	6.32	6.09	0.02				
22.30	6.33	6.09	0.02				
22.35	6.33	6.09	0.02				
22.40	6.34	6.10	0.02				
22.45	6.34	6.10	0.02				
22.50	6.34	6.10	0.02				
22.55	6.35	6.11	0.02				
22.60	6.35	6.11	0.02				
22.65	6.35	6.12	0.02				
22.70	6.36	6.12	0.02				
22.75	6.36	6.12	0.02				
22.80	6.36	6.13	0.02				
22.85	6.37	6.13	0.02				
22.90	6.37	6.13	0.02				
22.95	6.38	6.14	0.02				
23.00	6.38	6.14	0.02				
23.05	6.38	6.14	0.02				
23.10	6.39	6.15	0.02				
23.15	6.39	6.15	0.02				
23.20	6.39	6.16	0.02				
23.25	6.40	6.16	0.02				
23.30	6.40	6.16	0.02				
23.35	6.40	6.17	0.02				

Summary for Subcatchment PDA3 IMP: PDA3 IMP

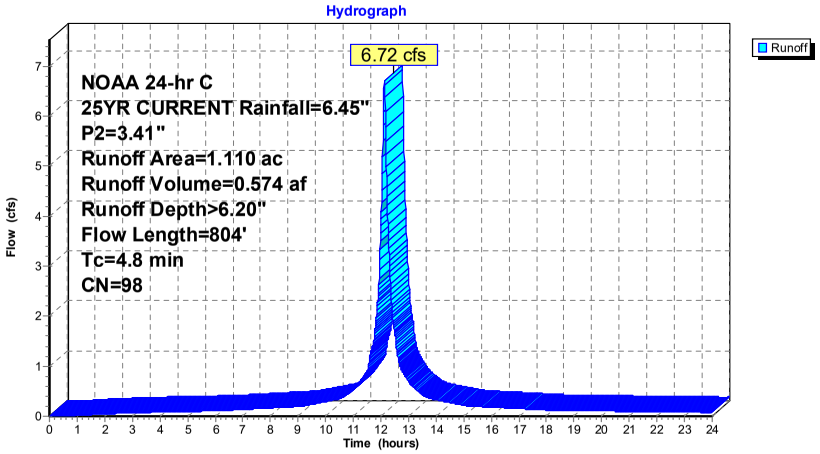
Runoff = 6.72 cfs @ 12.13 hrs, Volume= 0.574 af, Depth> 6.20"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR CURRENT Rainfall=6.45", P2=3.41"

	Area (ac)	CN	Description
*	0.990	98	Impervious vehicular
*	0.120	98	Impervious non vehicular
	1.110	98	Weighted Average
	1.110		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0071	0.94		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.7	172	0.0039	3.90	12.24	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
0.1	27	0.0120	6.84	21.48	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
1.6	439	0.0015	4.45	87.42	**Pipe Channel, RCP_Round 60"** 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.015
4.8	804	Total			

Subcatchment PDA3 IMP: PDA3 IMP



Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.07	0.06
0.05	0.00	0.00	0.00	2.65	0.20	0.07	0.06
0.10	0.01	0.00	0.00	2.70	0.20	0.07	0.06
0.15	0.01	0.00	0.00	2.75	0.21	0.07	0.06
0.20	0.01	0.00	0.00	2.80	0.21	0.08	0.06
0.25	0.02	0.00	0.00	2.85	0.21	0.08	0.06
0.30	0.02	0.00	0.00	2.90	0.22	0.08	0.07
0.35	0.03	0.00	0.00	2.95	0.22	0.09	0.07
0.40	0.03	0.00	0.00	3.00	0.23	0.09	0.07
0.45	0.03	0.00	0.00	3.05	0.23	0.09	0.07
0.50	0.04	0.00	0.00	3.10	0.24	0.10	0.07
0.55	0.04	0.00	0.00	3.15	0.24	0.10	0.07
0.60	0.04	0.00	0.00	3.20	0.24	0.10	0.07
0.65	0.05	0.00	0.00	3.25	0.25	0.11	0.07
0.70	0.05	0.00	0.00	3.30	0.25	0.11	0.07
0.75	0.05	0.00	0.00	3.35	0.26	0.11	0.07
0.80	0.06	0.00	0.01	3.40	0.26	0.12	0.07
0.85	0.06	0.00	0.01	3.45	0.27	0.12	0.07
0.90	0.06	0.00	0.01	3.50	0.27	0.12	0.08
0.95	0.07	0.00	0.01	3.55	0.28	0.13	0.08
1.00	0.07	0.00	0.01	3.60	0.28	0.13	0.08
1.05	0.07	0.00	0.02	3.65	0.28	0.13	0.08
1.10	0.08	0.01	0.02	3.70	0.29	0.14	0.08
1.15	0.08	0.01	0.02	3.75	0.29	0.14	0.08
1.20	0.09	0.01	0.02	3.80	0.30	0.14	0.08
1.25	0.09	0.01	0.02	3.85	0.30	0.15	0.08
1.30	0.09	0.01	0.03	3.90	0.31	0.15	0.08
1.35	0.10	0.01	0.03	3.95	0.31	0.15	0.08
1.40	0.10	0.01	0.03	4.00	0.32	0.16	0.08
1.45	0.10	0.01	0.03	4.05	0.32	0.16	0.08
1.50	0.11	0.02	0.03	4.10	0.32	0.17	0.08
1.55	0.11	0.02	0.03	4.15	0.33	0.17	0.08
1.60	0.11	0.02	0.04	4.20	0.33	0.17	0.08
1.65	0.12	0.02	0.04	4.25	0.34	0.18	0.09
1.70	0.12	0.02	0.04	4.30	0.34	0.18	0.09
1.75	0.13	0.03	0.04	4.35	0.35	0.18	0.09
1.80	0.13	0.03	0.04	4.40	0.35	0.19	0.09
1.85	0.13	0.03	0.04	4.45	0.36	0.19	0.09
1.90	0.14	0.03	0.04	4.50	0.36	0.20	0.09
1.95	0.14	0.03	0.05	4.55	0.37	0.20	0.09
2.00	0.15	0.04	0.05	4.60	0.37	0.20	0.09
2.05	0.15	0.04	0.05	4.65	0.38	0.21	0.09
2.10	0.15	0.04	0.05	4.70	0.38	0.21	0.09
2.15	0.16	0.04	0.05	4.75	0.39	0.22	0.09
2.20	0.16	0.04	0.05	4.80	0.39	0.22	0.09
2.25	0.17	0.05	0.05	4.85	0.40	0.23	0.09
2.30	0.17	0.05	0.05	4.90	0.40	0.23	0.09
2.35	0.17	0.05	0.05	4.95	0.41	0.23	0.09
2.40	0.18	0.05	0.06	5.00	0.41	0.24	0.09
2.45	0.18	0.06	0.06	5.05	0.42	0.24	0.09
2.50	0.19	0.06	0.06	5.10	0.42	0.25	0.10
2.55	0.19	0.06	0.06	5.15	0.42	0.25	0.10

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.43	0.26	0.10	7.80	0.74	0.54	0.16
5.25	0.43	0.26	0.10	7.85	0.75	0.55	0.16
5.30	0.44	0.26	0.10	7.90	0.76	0.56	0.16
5.35	0.44	0.27	0.10	7.95	0.77	0.56	0.16
5.40	0.45	0.27	0.10	8.00	0.77	0.57	0.16
5.45	0.45	0.28	0.10	8.05	0.78	0.58	0.16
5.50	0.46	0.28	0.10	8.10	0.79	0.59	0.17
5.55	0.46	0.29	0.10	8.15	0.80	0.60	0.17
5.60	0.47	0.29	0.10	8.20	0.80	0.60	0.17
5.65	0.48	0.30	0.10	8.25	0.81	0.61	0.17
5.70	0.48	0.30	0.10	8.30	0.82	0.62	0.17
5.75	0.49	0.30	0.10	8.35	0.83	0.63	0.17
5.80	0.49	0.31	0.10	8.40	0.84	0.63	0.17
5.85	0.50	0.31	0.10	8.45	0.85	0.64	0.18
5.90	0.50	0.32	0.10	8.50	0.85	0.65	0.18
5.95	0.51	0.32	0.10	8.55	0.86	0.66	0.18
6.00	0.51	0.33	0.10	8.60	0.87	0.67	0.18
6.05	0.52	0.33	0.11	8.65	0.88	0.67	0.18
6.10	0.52	0.34	0.11	8.70	0.89	0.68	0.18
6.15	0.53	0.34	0.11	8.75	0.90	0.69	0.19
6.20	0.53	0.35	0.11	8.80	0.91	0.70	0.19
6.25	0.54	0.35	0.11	8.85	0.91	0.71	0.19
6.30	0.54	0.36	0.11	8.90	0.92	0.72	0.19
6.35	0.55	0.36	0.11	8.95	0.93	0.73	0.19
6.40	0.56	0.37	0.12	9.00	0.94	0.73	0.19
6.45	0.56	0.37	0.12	9.05	0.95	0.74	0.20
6.50	0.57	0.38	0.12	9.10	0.96	0.75	0.20
6.55	0.57	0.38	0.12	9.15	0.97	0.76	0.20
6.60	0.58	0.39	0.12	9.20	0.98	0.77	0.21
6.65	0.58	0.40	0.12	9.25	0.99	0.78	0.21
6.70	0.59	0.40	0.12	9.30	1.00	0.79	0.22
6.75	0.60	0.41	0.13	9.35	1.01	0.80	0.23
6.80	0.60	0.41	0.13	9.40	1.02	0.81	0.23
6.85	0.61	0.42	0.13	9.45	1.04	0.83	0.24
6.90	0.62	0.42	0.13	9.50	1.05	0.84	0.24
6.95	0.62	0.43	0.13	9.55	1.06	0.85	0.25
7.00	0.63	0.44	0.13	9.60	1.07	0.86	0.25
7.05	0.64	0.44	0.13	9.65	1.08	0.87	0.26
7.10	0.64	0.45	0.14	9.70	1.10	0.88	0.26
7.15	0.65	0.46	0.14	9.75	1.11	0.90	0.27
7.20	0.66	0.46	0.14	9.80	1.12	0.91	0.27
7.25	0.66	0.47	0.14	9.85	1.13	0.92	0.28
7.30	0.67	0.47	0.14	9.90	1.15	0.94	0.28
7.35	0.68	0.48	0.14	9.95	1.16	0.95	0.29
7.40	0.68	0.49	0.15	10.00	1.18	0.96	0.30
7.45	0.69	0.49	0.15	10.05	1.19	0.98	0.30
7.50	0.70	0.50	0.15	10.10	1.20	0.99	0.31
7.55	0.70	0.51	0.15	10.15	1.22	1.00	0.31
7.60	0.71	0.51	0.15	10.20	1.23	1.02	0.32
7.65	0.72	0.52	0.15	10.25	1.25	1.03	0.32
7.70	0.73	0.53	0.15	10.30	1.27	1.05	0.33
7.75	0.73	0.54	0.16	10.35	1.28	1.06	0.33

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.30	1.08	0.34	13.00	4.90	4.67	0.70
10.45	1.31	1.10	0.34	13.05	4.93	4.69	0.67
10.50	1.33	1.11	0.35	13.10	4.95	4.72	0.63
10.55	1.35	1.13	0.36	13.15	4.98	4.74	0.60
10.60	1.37	1.15	0.38	13.20	5.00	4.76	0.57
10.65	1.39	1.17	0.39	13.25	5.02	4.79	0.54
10.70	1.41	1.19	0.41	13.30	5.04	4.81	0.52
10.75	1.43	1.21	0.43	13.35	5.06	4.83	0.50
10.80	1.45	1.23	0.45	13.40	5.08	4.85	0.48
10.85	1.47	1.25	0.47	13.45	5.10	4.87	0.46
10.90	1.50	1.28	0.49	13.50	5.12	4.88	0.44
10.95	1.52	1.30	0.51	13.55	5.14	4.90	0.42
11.00	1.55	1.33	0.53	13.60	5.15	4.92	0.39
11.05	1.58	1.36	0.56	13.65	5.17	4.93	0.38
11.10	1.61	1.38	0.59	13.70	5.18	4.95	0.37
11.15	1.64	1.42	0.63	13.75	5.20	4.96	0.36
11.20	1.67	1.45	0.67	13.80	5.22	4.98	0.35
11.25	1.71	1.48	0.70	13.85	5.23	4.99	0.35
11.30	1.74	1.52	0.74	13.90	5.25	5.01	0.34
11.35	1.78	1.56	0.78	13.95	5.26	5.02	0.33
11.40	1.82	1.60	0.82	14.00	5.27	5.04	0.33
11.45	1.86	1.64	0.85	14.05	5.29	5.05	0.32
11.50	1.91	1.68	0.89	14.10	5.30	5.06	0.32
11.55	1.97	1.75	0.99	14.15	5.32	5.08	0.31
11.60	2.04	1.81	1.18	14.20	5.33	5.09	0.31
11.65	2.11	1.88	1.30	14.25	5.34	5.10	0.30
11.70	2.17	1.95	1.40	14.30	5.35	5.12	0.30
11.75	2.27	2.04	1.54	14.35	5.37	5.13	0.29
11.80	2.36	2.13	1.77	14.40	5.38	5.14	0.29
11.85	2.49	2.26	2.04	14.45	5.39	5.15	0.28
11.90	2.62	2.39	2.40	14.50	5.40	5.17	0.27
11.95	2.85	2.62	2.94	14.55	5.41	5.18	0.27
12.00	3.07	2.84	3.81	14.60	5.43	5.19	0.26
12.05	3.45	3.22	4.85	14.65	5.44	5.20	0.26
12.10	3.83	3.59	**6.34**	14.70	5.45	5.21	0.25
12.15	3.96	3.72	**6.39**	14.75	5.46	5.22	0.25
12.20	4.09	3.85	5.00	14.80	5.47	5.23	0.24
12.25	4.18	3.95	4.02	14.85	5.48	5.24	0.24
12.30	4.28	4.04	3.23	14.90	5.49	5.25	0.23
12.35	4.34	4.11	2.65	14.95	5.50	5.26	0.23
12.40	4.41	4.18	2.15	15.00	5.51	5.27	0.22
12.45	4.48	4.24	1.85	15.05	5.52	5.28	0.22
12.50	4.54	4.31	1.67	15.10	5.53	5.29	0.21
12.55	4.59	4.35	1.49	15.15	5.54	5.30	0.21
12.60	4.63	4.39	1.25	15.20	5.54	5.31	0.20
12.65	4.67	4.43	1.10	15.25	5.55	5.32	0.20
12.70	4.71	4.47	1.00	15.30	5.56	5.32	0.20
12.75	4.74	4.51	0.94	15.35	5.57	5.33	0.20
12.80	4.78	4.54	0.88	15.40	5.58	5.34	0.20
12.85	4.81	4.57	0.83	15.45	5.59	5.35	0.19
12.90	4.84	4.61	0.78	15.50	5.60	5.36	0.19
12.95	4.87	4.64	0.75	15.55	5.60	5.37	0.19

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.61	5.37	0.19	18.20	5.96	5.72	0.12
15.65	5.62	5.38	0.19	18.25	5.96	5.73	0.12
15.70	5.63	5.39	0.19	18.30	5.97	5.73	0.12
15.75	5.64	5.40	0.19	18.35	5.97	5.74	0.11
15.80	5.65	5.41	0.18	18.40	5.98	5.74	0.11
15.85	5.65	5.42	0.18	18.45	5.99	5.75	0.11
15.90	5.66	5.42	0.18	18.50	5.99	5.75	0.11
15.95	5.67	5.43	0.18	18.55	6.00	5.76	0.11
16.00	5.68	5.44	0.18	18.60	6.00	5.76	0.11
16.05	5.68	5.45	0.18	18.65	6.01	5.77	0.11
16.10	5.69	5.45	0.18	18.70	6.01	5.77	0.11
16.15	5.70	5.46	0.17	18.75	6.02	5.78	0.11
16.20	5.71	5.47	0.17	18.80	6.02	5.78	0.11
16.25	5.72	5.48	0.17	18.85	6.03	5.79	0.11
16.30	5.72	5.49	0.17	18.90	6.03	5.79	0.11
16.35	5.73	5.49	0.17	18.95	6.03	5.80	0.11
16.40	5.74	5.50	0.17	19.00	6.04	5.80	0.11
16.45	5.75	5.51	0.17	19.05	6.04	5.81	0.11
16.50	5.75	5.51	0.16	19.10	6.05	5.81	0.11
16.55	5.76	5.52	0.16	19.15	6.05	5.82	0.11
16.60	5.77	5.53	0.16	19.20	6.06	5.82	0.11
16.65	5.77	5.54	0.16	19.25	6.06	5.83	0.11
16.70	5.78	5.54	0.16	19.30	6.07	5.83	0.11
16.75	5.79	5.55	0.16	19.35	6.07	5.84	0.11
16.80	5.79	5.56	0.16	19.40	6.08	5.84	0.11
16.85	5.80	5.56	0.15	19.45	6.08	5.84	0.11
16.90	5.81	5.57	0.15	19.50	6.09	5.85	0.11
16.95	5.81	5.58	0.15	19.55	6.09	5.85	0.11
17.00	5.82	5.58	0.15	19.60	6.10	5.86	0.11
17.05	5.83	5.59	0.15	19.65	6.10	5.86	0.11
17.10	5.83	5.60	0.15	19.70	6.11	5.87	0.11
17.15	5.84	5.60	0.15	19.75	6.11	5.87	0.10
17.20	5.85	5.61	0.14	19.80	6.12	5.88	0.10
17.25	5.85	5.61	0.14	19.85	6.12	5.88	0.10
17.30	5.86	5.62	0.14	19.90	6.13	5.89	0.10
17.35	5.87	5.63	0.14	19.95	6.13	5.89	0.10
17.40	5.87	5.63	0.14	20.00	6.13	5.90	0.10
17.45	5.88	5.64	0.14	20.05	6.14	5.90	0.10
17.50	5.88	5.65	0.14	20.10	6.14	5.91	0.10
17.55	5.89	5.65	0.13	20.15	6.15	5.91	0.10
17.60	5.89	5.66	0.13	20.20	6.15	5.91	0.10
17.65	5.90	5.66	0.13	20.25	6.16	5.92	0.10
17.70	5.91	5.67	0.13	20.30	6.16	5.92	0.10
17.75	5.91	5.67	0.13	20.35	6.17	5.93	0.10
17.80	5.92	5.68	0.13	20.40	6.17	5.93	0.10
17.85	5.92	5.68	0.13	20.45	6.17	5.94	0.10
17.90	5.93	5.69	0.12	20.50	6.18	5.94	0.10
17.95	5.93	5.70	0.12	20.55	6.18	5.95	0.10
18.00	5.94	5.70	0.12	20.60	6.19	5.95	0.10
18.05	5.94	5.71	0.12	20.65	6.19	5.95	0.10
18.10	5.95	5.71	0.12	20.70	6.20	5.96	0.10
18.15	5.95	5.72	0.12	20.75	6.20	5.96	0.10

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	6.21	5.97	0.10	23.40	6.41	6.17	0.08
20.85	6.21	5.97	0.10	23.45	6.41	6.17	0.08
20.90	6.21	5.98	0.10	23.50	6.41	6.18	0.08
20.95	6.22	5.98	0.10	23.55	6.42	6.18	0.08
21.00	6.22	5.98	0.10	23.60	6.42	6.18	0.08
21.05	6.23	5.99	0.10	23.65	6.42	6.19	0.08
21.10	6.23	5.99	0.09	23.70	6.43	6.19	0.08
21.15	6.24	6.00	0.09	23.75	6.43	6.19	0.08
21.20	6.24	6.00	0.09	23.80	6.44	6.20	0.08
21.25	6.24	6.01	0.09	23.85	6.44	6.20	0.08
21.30	6.25	6.01	0.09	23.90	6.44	6.20	0.07
21.35	6.25	6.01	0.09	23.95	6.45	6.21	0.08
21.40	6.26	6.02	0.09	24.00	**6.45**	**6.21**	0.08
21.45	6.26	6.02	0.09				
21.50	6.26	6.03	0.09				
21.55	6.27	6.03	0.09				
21.60	6.27	6.03	0.09				
21.65	6.28	6.04	0.09				
21.70	6.28	6.04	0.09				
21.75	6.28	6.05	0.09				
21.80	6.29	6.05	0.09				
21.85	6.29	6.05	0.09				
21.90	6.30	6.06	0.09				
21.95	6.30	6.06	0.09				
22.00	6.30	6.07	0.09				
22.05	6.31	6.07	0.09				
22.10	6.31	6.07	0.09				
22.15	6.32	6.08	0.09				
22.20	6.32	6.08	0.09				
22.25	6.32	6.09	0.09				
22.30	6.33	6.09	0.09				
22.35	6.33	6.09	0.09				
22.40	6.34	6.10	0.09				
22.45	6.34	6.10	0.09				
22.50	6.34	6.10	0.08				
22.55	6.35	6.11	0.08				
22.60	6.35	6.11	0.08				
22.65	6.35	6.12	0.08				
22.70	6.36	6.12	0.08				
22.75	6.36	6.12	0.08				
22.80	6.36	6.13	0.08				
22.85	6.37	6.13	0.08				
22.90	6.37	6.13	0.08				
22.95	6.38	6.14	0.08				
23.00	6.38	6.14	0.08				
23.05	6.38	6.14	0.08				
23.10	6.39	6.15	0.08				
23.15	6.39	6.15	0.08				
23.20	6.39	6.16	0.08				
23.25	6.40	6.16	0.08				
23.30	6.40	6.16	0.08				
23.35	6.40	6.17	0.08				

Summary for Subcatchment PDA3 PERV: PDA3 PERV

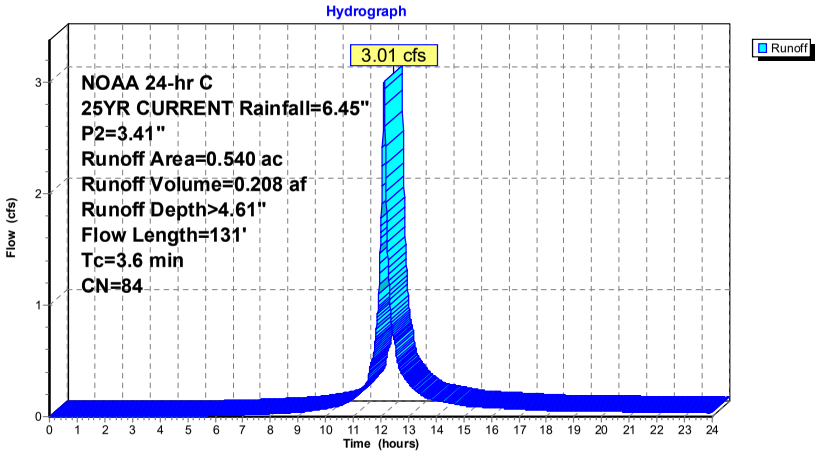
Runoff = 3.01 cfs @ 12.12 hrs, Volume= 0.208 af, Depth> 4.61"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR CURRENT Rainfall=6.45", P2=3.41"

	Area (ac)	CN	Description
*	0.540	84	>75% Grass cover, Good, HSG D
	0.540		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	23	0.0200	0.13		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.1	42	0.0150	5.59	6.86	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
3.6	131	Total			

Subcatchment PDA3 PERV: PDA3 PERV



Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.20	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.20	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.21	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.21	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.21	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.22	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.22	0.00	0.00
0.40	0.03	0.00	0.00	3.00	0.23	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.23	0.00	0.00
0.50	0.04	0.00	0.00	3.10	0.24	0.00	0.00
0.55	0.04	0.00	0.00	3.15	0.24	0.00	0.00
0.60	0.04	0.00	0.00	3.20	0.24	0.00	0.00
0.65	0.05	0.00	0.00	3.25	0.25	0.00	0.00
0.70	0.05	0.00	0.00	3.30	0.25	0.00	0.00
0.75	0.05	0.00	0.00	3.35	0.26	0.00	0.00
0.80	0.06	0.00	0.00	3.40	0.26	0.00	0.00
0.85	0.06	0.00	0.00	3.45	0.27	0.00	0.00
0.90	0.06	0.00	0.00	3.50	0.27	0.00	0.00
0.95	0.07	0.00	0.00	3.55	0.28	0.00	0.00
1.00	0.07	0.00	0.00	3.60	0.28	0.00	0.00
1.05	0.07	0.00	0.00	3.65	0.28	0.00	0.00
1.10	0.08	0.00	0.00	3.70	0.29	0.00	0.00
1.15	0.08	0.00	0.00	3.75	0.29	0.00	0.00
1.20	0.09	0.00	0.00	3.80	0.30	0.00	0.00
1.25	0.09	0.00	0.00	3.85	0.30	0.00	0.00
1.30	0.09	0.00	0.00	3.90	0.31	0.00	0.00
1.35	0.10	0.00	0.00	3.95	0.31	0.00	0.00
1.40	0.10	0.00	0.00	4.00	0.32	0.00	0.00
1.45	0.10	0.00	0.00	4.05	0.32	0.00	0.00
1.50	0.11	0.00	0.00	4.10	0.32	0.00	0.00
1.55	0.11	0.00	0.00	4.15	0.33	0.00	0.00
1.60	0.11	0.00	0.00	4.20	0.33	0.00	0.00
1.65	0.12	0.00	0.00	4.25	0.34	0.00	0.00
1.70	0.12	0.00	0.00	4.30	0.34	0.00	0.00
1.75	0.13	0.00	0.00	4.35	0.35	0.00	0.00
1.80	0.13	0.00	0.00	4.40	0.35	0.00	0.00
1.85	0.13	0.00	0.00	4.45	0.36	0.00	0.00
1.90	0.14	0.00	0.00	4.50	0.36	0.00	0.00
1.95	0.14	0.00	0.00	4.55	0.37	0.00	0.00
2.00	0.15	0.00	0.00	4.60	0.37	0.00	0.00
2.05	0.15	0.00	0.00	4.65	0.38	0.00	0.00
2.10	0.15	0.00	0.00	4.70	0.38	0.00	0.00
2.15	0.16	0.00	0.00	4.75	0.39	0.00	0.00
2.20	0.16	0.00	0.00	4.80	0.39	0.00	0.00
2.25	0.17	0.00	0.00	4.85	0.40	0.00	0.00
2.30	0.17	0.00	0.00	4.90	0.40	0.00	0.00
2.35	0.17	0.00	0.00	4.95	0.41	0.00	0.00
2.40	0.18	0.00	0.00	5.00	0.41	0.00	0.00
2.45	0.18	0.00	0.00	5.05	0.42	0.00	0.00
2.50	0.19	0.00	0.00	5.10	0.42	0.00	0.00
2.55	0.19	0.00	0.00	5.15	0.42	0.00	0.00

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.43	0.00	0.00	7.80	0.74	0.06	0.02
5.25	0.43	0.00	0.00	7.85	0.75	0.06	0.02
5.30	0.44	0.00	0.00	7.90	0.76	0.06	0.02
5.35	0.44	0.00	0.00	7.95	0.77	0.06	0.02
5.40	0.45	0.00	0.00	8.00	0.77	0.07	0.03
5.45	0.45	0.00	0.00	8.05	0.78	0.07	0.03
5.50	0.46	0.00	0.00	8.10	0.79	0.07	0.03
5.55	0.46	0.00	0.00	8.15	0.80	0.07	0.03
5.60	0.47	0.00	0.00	8.20	0.80	0.08	0.03
5.65	0.48	0.00	0.00	8.25	0.81	0.08	0.03
5.70	0.48	0.00	0.00	8.30	0.82	0.08	0.03
5.75	0.49	0.01	0.01	8.35	0.83	0.09	0.03
5.80	0.49	0.01	0.01	8.40	0.84	0.09	0.03
5.85	0.50	0.01	0.01	8.45	0.85	0.09	0.03
5.90	0.50	0.01	0.01	8.50	0.85	0.09	0.03
5.95	0.51	0.01	0.01	8.55	0.86	0.10	0.03
6.00	0.51	0.01	0.01	8.60	0.87	0.10	0.03
6.05	0.52	0.01	0.01	8.65	0.88	0.10	0.03
6.10	0.52	0.01	0.01	8.70	0.89	0.11	0.03
6.15	0.53	0.01	0.01	8.75	0.90	0.11	0.04
6.20	0.53	0.01	0.01	8.80	0.91	0.11	0.04
6.25	0.54	0.01	0.01	8.85	0.91	0.12	0.04
6.30	0.54	0.01	0.01	8.90	0.92	0.12	0.04
6.35	0.55	0.01	0.01	8.95	0.93	0.12	0.04
6.40	0.56	0.01	0.01	9.00	0.94	0.13	0.04
6.45	0.56	0.02	0.01	9.05	0.95	0.13	0.04
6.50	0.57	0.02	0.01	9.10	0.96	0.14	0.04
6.55	0.57	0.02	0.01	9.15	0.97	0.14	0.04
6.60	0.58	0.02	0.01	9.20	0.98	0.14	0.04
6.65	0.58	0.02	0.01	9.25	0.99	0.15	0.05
6.70	0.59	0.02	0.01	9.30	1.00	0.15	0.05
6.75	0.60	0.02	0.01	9.35	1.01	0.16	0.05
6.80	0.60	0.02	0.01	9.40	1.02	0.16	0.05
6.85	0.61	0.02	0.01	9.45	1.04	0.17	0.05
6.90	0.62	0.03	0.01	9.50	1.05	0.17	0.05
6.95	0.62	0.03	0.01	9.55	1.06	0.18	0.06
7.00	0.63	0.03	0.01	9.60	1.07	0.18	0.06
7.05	0.64	0.03	0.02	9.65	1.08	0.19	0.06
7.10	0.64	0.03	0.02	9.70	1.10	0.20	0.06
7.15	0.65	0.03	0.02	9.75	1.11	0.20	0.06
7.20	0.66	0.03	0.02	9.80	1.12	0.21	0.07
7.25	0.66	0.04	0.02	9.85	1.13	0.21	0.07
7.30	0.67	0.04	0.02	9.90	1.15	0.22	0.07
7.35	0.68	0.04	0.02	9.95	1.16	0.23	0.07
7.40	0.68	0.04	0.02	10.00	1.18	0.23	0.07
7.45	0.69	0.04	0.02	10.05	1.19	0.24	0.08
7.50	0.70	0.05	0.02	10.10	1.20	0.25	0.08
7.55	0.70	0.05	0.02	10.15	1.22	0.26	0.08
7.60	0.71	0.05	0.02	10.20	1.23	0.26	0.08
7.65	0.72	0.05	0.02	10.25	1.25	0.27	0.08
7.70	0.73	0.05	0.02	10.30	1.27	0.28	0.09
7.75	0.73	0.06	0.02	10.35	1.28	0.29	0.09

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.30	0.30	0.09	13.00	4.90	3.18	0.30
10.45	1.31	0.31	0.09	13.05	4.93	3.20	0.28
10.50	1.33	0.32	0.10	13.10	4.95	3.23	0.27
10.55	1.35	0.33	0.10	13.15	4.98	3.25	0.26
10.60	1.37	0.34	0.11	13.20	5.00	3.27	0.24
10.65	1.39	0.35	0.11	13.25	5.02	3.29	0.23
10.70	1.41	0.36	0.12	13.30	5.04	3.31	0.23
10.75	1.43	0.37	0.13	13.35	5.06	3.33	0.22
10.80	1.45	0.38	0.13	13.40	5.08	3.35	0.21
10.85	1.47	0.40	0.14	13.45	5.10	3.36	0.20
10.90	1.50	0.41	0.15	13.50	5.12	3.38	0.19
10.95	1.52	0.43	0.16	13.55	5.14	3.40	0.18
11.00	1.55	0.44	0.16	13.60	5.15	3.41	0.17
11.05	1.58	0.46	0.17	13.65	5.17	3.43	0.17
11.10	1.61	0.48	0.19	13.70	5.18	3.44	0.16
11.15	1.64	0.50	0.20	13.75	5.20	3.45	0.16
11.20	1.67	0.52	0.21	13.80	5.22	3.47	0.16
11.25	1.71	0.54	0.23	13.85	5.23	3.48	0.15
11.30	1.74	0.57	0.24	13.90	5.25	3.50	0.15
11.35	1.78	0.59	0.26	13.95	5.26	3.51	0.15
11.40	1.82	0.62	0.27	14.00	5.27	3.52	0.15
11.45	1.86	0.65	0.29	14.05	5.29	3.53	0.14
11.50	1.91	0.68	0.30	14.10	5.30	3.55	0.14
11.55	1.97	0.72	0.36	14.15	5.32	3.56	0.14
11.60	2.04	0.77	0.43	14.20	5.33	3.57	0.14
11.65	2.11	0.82	0.48	14.25	5.34	3.58	0.13
11.70	2.17	0.87	0.51	14.30	5.35	3.60	0.13
11.75	2.27	0.94	0.59	14.35	5.37	3.61	0.13
11.80	2.36	1.01	0.68	14.40	5.38	3.62	0.13
11.85	2.49	1.11	0.82	14.45	5.39	3.63	0.12
11.90	2.62	1.21	0.97	14.50	5.40	3.64	0.12
11.95	2.85	1.39	1.29	14.55	5.41	3.65	0.12
12.00	3.07	1.58	1.66	14.60	5.43	3.66	0.12
12.05	3.45	1.89	2.25	14.65	5.44	3.67	0.11
12.10	3.83	2.22	**2.91**	14.70	5.45	3.68	0.11
12.15	3.96	2.33	**2.60**	14.75	5.46	3.69	0.11
12.20	4.09	2.45	1.92	14.80	5.47	3.70	0.11
12.25	4.18	2.53	1.48	14.85	5.48	3.71	0.11
12.30	4.28	2.62	1.17	14.90	5.49	3.72	0.10
12.35	4.34	2.68	0.95	14.95	5.50	3.73	0.10
12.40	4.41	2.74	0.80	15.00	5.51	3.74	0.10
12.45	4.48	2.80	0.71	15.05	5.52	3.75	0.10
12.50	4.54	2.86	0.67	15.10	5.53	3.76	0.09
12.55	4.59	2.89	0.59	15.15	5.54	3.76	0.09
12.60	4.63	2.93	0.50	15.20	5.54	3.77	0.09
12.65	4.67	2.97	0.44	15.25	5.55	3.78	0.09
12.70	4.71	3.00	0.41	15.30	5.56	3.79	0.09
12.75	4.74	3.04	0.39	15.35	5.57	3.80	0.09
12.80	4.78	3.07	0.37	15.40	5.58	3.80	0.09
12.85	4.81	3.10	0.35	15.45	5.59	3.81	0.09
12.90	4.84	3.13	0.34	15.50	5.60	3.82	0.09
12.95	4.87	3.15	0.32	15.55	5.60	3.83	0.09

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.61	3.84	0.09	18.20	5.96	4.16	0.05
15.65	5.62	3.84	0.08	18.25	5.96	4.16	0.05
15.70	5.63	3.85	0.08	18.30	5.97	4.17	0.05
15.75	5.64	3.86	0.08	18.35	5.97	4.17	0.05
15.80	5.65	3.87	0.08	18.40	5.98	4.18	0.05
15.85	5.65	3.87	0.08	18.45	5.99	4.18	0.05
15.90	5.66	3.88	0.08	18.50	5.99	4.19	0.05
15.95	5.67	3.89	0.08	18.55	6.00	4.19	0.05
16.00	5.68	3.90	0.08	18.60	6.00	4.20	0.05
16.05	5.68	3.90	0.08	18.65	6.01	4.20	0.05
16.10	5.69	3.91	0.08	18.70	6.01	4.21	0.05
16.15	5.70	3.92	0.08	18.75	6.02	4.21	0.05
16.20	5.71	3.92	0.08	18.80	6.02	4.22	0.05
16.25	5.72	3.93	0.08	18.85	6.03	4.22	0.05
16.30	5.72	3.94	0.08	18.90	6.03	4.22	0.05
16.35	5.73	3.94	0.08	18.95	6.03	4.23	0.05
16.40	5.74	3.95	0.08	19.00	6.04	4.23	0.05
16.45	5.75	3.96	0.07	19.05	6.04	4.24	0.05
16.50	5.75	3.97	0.07	19.10	6.05	4.24	0.05
16.55	5.76	3.97	0.07	19.15	6.05	4.25	0.05
16.60	5.77	3.98	0.07	19.20	6.06	4.25	0.05
16.65	5.77	3.98	0.07	19.25	6.06	4.26	0.05
16.70	5.78	3.99	0.07	19.30	6.07	4.26	0.05
16.75	5.79	4.00	0.07	19.35	6.07	4.27	0.05
16.80	5.79	4.00	0.07	19.40	6.08	4.27	0.05
16.85	5.80	4.01	0.07	19.45	6.08	4.27	0.05
16.90	5.81	4.02	0.07	19.50	6.09	4.28	0.05
16.95	5.81	4.02	0.07	19.55	6.09	4.28	0.05
17.00	5.82	4.03	0.07	19.60	6.10	4.29	0.05
17.05	5.83	4.04	0.07	19.65	6.10	4.29	0.05
17.10	5.83	4.04	0.07	19.70	6.11	4.30	0.05
17.15	5.84	4.05	0.07	19.75	6.11	4.30	0.05
17.20	5.85	4.05	0.07	19.80	6.12	4.31	0.05
17.25	5.85	4.06	0.06	19.85	6.12	4.31	0.05
17.30	5.86	4.06	0.06	19.90	6.13	4.31	0.05
17.35	5.87	4.07	0.06	19.95	6.13	4.32	0.05
17.40	5.87	4.08	0.06	20.00	6.13	4.32	0.05
17.45	5.88	4.08	0.06	20.05	6.14	4.33	0.05
17.50	5.88	4.09	0.06	20.10	6.14	4.33	0.05
17.55	5.89	4.09	0.06	20.15	6.15	4.34	0.05
17.60	5.89	4.10	0.06	20.20	6.15	4.34	0.05
17.65	5.90	4.10	0.06	20.25	6.16	4.34	0.05
17.70	5.91	4.11	0.06	20.30	6.16	4.35	0.05
17.75	5.91	4.11	0.06	20.35	6.17	4.35	0.05
17.80	5.92	4.12	0.06	20.40	6.17	4.36	0.05
17.85	5.92	4.12	0.06	20.45	6.17	4.36	0.05
17.90	5.93	4.13	0.06	20.50	6.18	4.36	0.05
17.95	5.93	4.13	0.06	20.55	6.18	4.37	0.05
18.00	5.94	4.14	0.05	20.60	6.19	4.37	0.05
18.05	5.94	4.14	0.05	20.65	6.19	4.38	0.04
18.10	5.95	4.15	0.05	20.70	6.20	4.38	0.04
18.15	5.95	4.15	0.05	20.75	6.20	4.38	0.04

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	6.21	4.39	0.04	23.40	6.41	4.58	0.04
20.85	6.21	4.39	0.04	23.45	6.41	4.58	0.04
20.90	6.21	4.40	0.04	23.50	6.41	4.59	0.04
20.95	6.22	4.40	0.04	23.55	6.42	4.59	0.04
21.00	6.22	4.41	0.04	23.60	6.42	4.59	0.04
21.05	6.23	4.41	0.04	23.65	6.42	4.60	0.04
21.10	6.23	4.41	0.04	23.70	6.43	4.60	0.04
21.15	6.24	4.42	0.04	23.75	6.43	4.60	0.03
21.20	6.24	4.42	0.04	23.80	6.44	4.61	0.03
21.25	6.24	4.42	0.04	23.85	6.44	4.61	0.03
21.30	6.25	4.43	0.04	23.90	6.44	4.61	0.03
21.35	6.25	4.43	0.04	23.95	6.45	4.62	0.04
21.40	6.26	4.44	0.04	24.00	**6.45**	**4.62**	0.04
21.45	6.26	4.44	0.04				
21.50	6.26	4.44	0.04				
21.55	6.27	4.45	0.04				
21.60	6.27	4.45	0.04				
21.65	6.28	4.46	0.04				
21.70	6.28	4.46	0.04				
21.75	6.28	4.46	0.04				
21.80	6.29	4.47	0.04				
21.85	6.29	4.47	0.04				
21.90	6.30	4.47	0.04				
21.95	6.30	4.48	0.04				
22.00	6.30	4.48	0.04				
22.05	6.31	4.49	0.04				
22.10	6.31	4.49	0.04				
22.15	6.32	4.49	0.04				
22.20	6.32	4.50	0.04				
22.25	6.32	4.50	0.04				
22.30	6.33	4.50	0.04				
22.35	6.33	4.51	0.04				
22.40	6.34	4.51	0.04				
22.45	6.34	4.51	0.04				
22.50	6.34	4.52	0.04				
22.55	6.35	4.52	0.04				
22.60	6.35	4.53	0.04				
22.65	6.35	4.53	0.04				
22.70	6.36	4.53	0.04				
22.75	6.36	4.54	0.04				
22.80	6.36	4.54	0.04				
22.85	6.37	4.54	0.04				
22.90	6.37	4.55	0.04				
22.95	6.38	4.55	0.04				
23.00	6.38	4.55	0.04				
23.05	6.38	4.56	0.04				
23.10	6.39	4.56	0.04				
23.15	6.39	4.56	0.04				
23.20	6.39	4.57	0.04				
23.25	6.40	4.57	0.04				
23.30	6.40	4.57	0.04				
23.35	6.40	4.58	0.04				

Summary for Subcatchment PDA4 IMP: PDA4 IMP

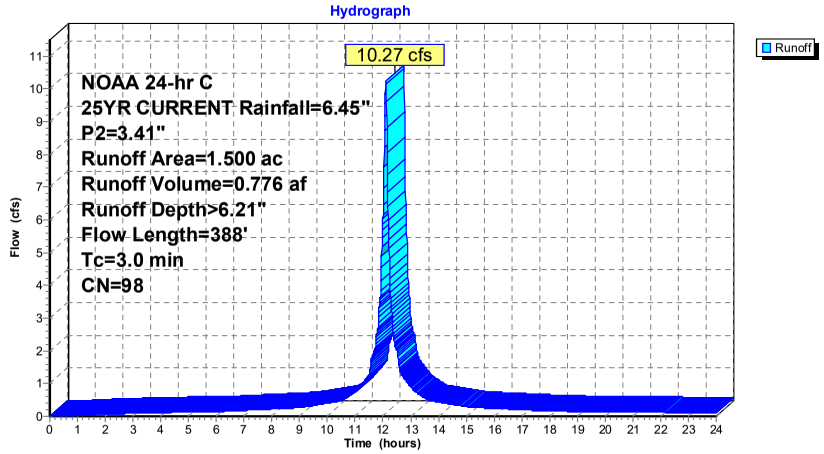
Runoff = 10.27 cfs @ 12.11 hrs, Volume= 0.776 af, Depth> 6.21"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR CURRENT Rainfall=6.45", P2=3.41"

	Area (ac)	CN	Description
*	1.500	98	Impervious vehicular
	1.500		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	100	0.0160	1.30		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.6	88	0.0150	2.49		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.5	100	0.0039	3.22	5.69	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.6	100	0.0020	2.79	8.77	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
3.0	388	Total			

Subcatchment PDA4 IMP: PDA4 IMP



Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.07	0.08
0.05	0.00	0.00	0.00	2.65	0.20	0.07	0.08
0.10	0.01	0.00	0.00	2.70	0.20	0.07	0.08
0.15	0.01	0.00	0.00	2.75	0.21	0.07	0.09
0.20	0.01	0.00	0.00	2.80	0.21	0.08	0.09
0.25	0.02	0.00	0.00	2.85	0.21	0.08	0.09
0.30	0.02	0.00	0.00	2.90	0.22	0.08	0.09
0.35	0.03	0.00	0.00	2.95	0.22	0.09	0.09
0.40	0.03	0.00	0.00	3.00	0.23	0.09	0.09
0.45	0.03	0.00	0.00	3.05	0.23	0.09	0.09
0.50	0.04	0.00	0.00	3.10	0.24	0.10	0.09
0.55	0.04	0.00	0.00	3.15	0.24	0.10	0.09
0.60	0.04	0.00	0.00	3.20	0.24	0.10	0.10
0.65	0.05	0.00	0.00	3.25	0.25	0.11	0.10
0.70	0.05	0.00	0.00	3.30	0.25	0.11	0.10
0.75	0.05	0.00	0.01	3.35	0.26	0.11	0.10
0.80	0.06	0.00	0.01	3.40	0.26	0.12	0.10
0.85	0.06	0.00	0.01	3.45	0.27	0.12	0.10
0.90	0.06	0.00	0.02	3.50	0.27	0.12	0.10
0.95	0.07	0.00	0.02	3.55	0.28	0.13	0.10
1.00	0.07	0.00	0.02	3.60	0.28	0.13	0.10
1.05	0.07	0.00	0.02	3.65	0.28	0.13	0.11
1.10	0.08	0.01	0.03	3.70	0.29	0.14	0.11
1.15	0.08	0.01	0.03	3.75	0.29	0.14	0.11
1.20	0.09	0.01	0.03	3.80	0.30	0.14	0.11
1.25	0.09	0.01	0.03	3.85	0.30	0.15	0.11
1.30	0.09	0.01	0.04	3.90	0.31	0.15	0.11
1.35	0.10	0.01	0.04	3.95	0.31	0.15	0.11
1.40	0.10	0.01	0.04	4.00	0.32	0.16	0.11
1.45	0.10	0.01	0.04	4.05	0.32	0.16	0.11
1.50	0.11	0.02	0.05	4.10	0.32	0.17	0.11
1.55	0.11	0.02	0.05	4.15	0.33	0.17	0.11
1.60	0.11	0.02	0.05	4.20	0.33	0.17	0.12
1.65	0.12	0.02	0.05	4.25	0.34	0.18	0.12
1.70	0.12	0.02	0.05	4.30	0.34	0.18	0.12
1.75	0.13	0.03	0.06	4.35	0.35	0.18	0.12
1.80	0.13	0.03	0.06	4.40	0.35	0.19	0.12
1.85	0.13	0.03	0.06	4.45	0.36	0.19	0.12
1.90	0.14	0.03	0.06	4.50	0.36	0.20	0.12
1.95	0.14	0.03	0.06	4.55	0.37	0.20	0.12
2.00	0.15	0.04	0.06	4.60	0.37	0.20	0.12
2.05	0.15	0.04	0.07	4.65	0.38	0.21	0.12
2.10	0.15	0.04	0.07	4.70	0.38	0.21	0.12
2.15	0.16	0.04	0.07	4.75	0.39	0.22	0.12
2.20	0.16	0.04	0.07	4.80	0.39	0.22	0.12
2.25	0.17	0.05	0.07	4.85	0.40	0.23	0.13
2.30	0.17	0.05	0.07	4.90	0.40	0.23	0.13
2.35	0.17	0.05	0.08	4.95	0.41	0.23	0.13
2.40	0.18	0.05	0.08	5.00	0.41	0.24	0.13
2.45	0.18	0.06	0.08	5.05	0.42	0.24	0.13
2.50	0.19	0.06	0.08	5.10	0.42	0.25	0.13
2.55	0.19	0.06	0.08	5.15	0.42	0.25	0.13

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.43	0.26	0.13	7.80	0.74	0.54	0.21
5.25	0.43	0.26	0.13	7.85	0.75	0.55	0.22
5.30	0.44	0.26	0.13	7.90	0.76	0.56	0.22
5.35	0.44	0.27	0.13	7.95	0.77	0.56	0.22
5.40	0.45	0.27	0.13	8.00	0.77	0.57	0.22
5.45	0.45	0.28	0.13	8.05	0.78	0.58	0.22
5.50	0.46	0.28	0.14	8.10	0.79	0.59	0.23
5.55	0.46	0.29	0.14	8.15	0.80	0.60	0.23
5.60	0.47	0.29	0.14	8.20	0.80	0.60	0.23
5.65	0.48	0.30	0.14	8.25	0.81	0.61	0.23
5.70	0.48	0.30	0.14	8.30	0.82	0.62	0.23
5.75	0.49	0.30	0.14	8.35	0.83	0.63	0.24
5.80	0.49	0.31	0.14	8.40	0.84	0.63	0.24
5.85	0.50	0.31	0.14	8.45	0.85	0.64	0.24
5.90	0.50	0.32	0.14	8.50	0.85	0.65	0.24
5.95	0.51	0.32	0.14	8.55	0.86	0.66	0.24
6.00	0.51	0.33	0.14	8.60	0.87	0.67	0.25
6.05	0.52	0.33	0.14	8.65	0.88	0.67	0.25
6.10	0.52	0.34	0.15	8.70	0.89	0.68	0.25
6.15	0.53	0.34	0.15	8.75	0.90	0.69	0.25
6.20	0.53	0.35	0.15	8.80	0.91	0.70	0.25
6.25	0.54	0.35	0.15	8.85	0.91	0.71	0.26
6.30	0.54	0.36	0.15	8.90	0.92	0.72	0.26
6.35	0.55	0.36	0.16	8.95	0.93	0.73	0.26
6.40	0.56	0.37	0.16	9.00	0.94	0.73	0.26
6.45	0.56	0.37	0.16	9.05	0.95	0.74	0.27
6.50	0.57	0.38	0.16	9.10	0.96	0.75	0.27
6.55	0.57	0.38	0.16	9.15	0.97	0.76	0.28
6.60	0.58	0.39	0.17	9.20	0.98	0.77	0.29
6.65	0.58	0.40	0.17	9.25	0.99	0.78	0.30
6.70	0.59	0.40	0.17	9.30	1.00	0.79	0.30
6.75	0.60	0.41	0.17	9.35	1.01	0.80	0.31
6.80	0.60	0.41	0.17	9.40	1.02	0.81	0.32
6.85	0.61	0.42	0.18	9.45	1.04	0.83	0.33
6.90	0.62	0.42	0.18	9.50	1.05	0.84	0.33
6.95	0.62	0.43	0.18	9.55	1.06	0.85	0.34
7.00	0.63	0.44	0.18	9.60	1.07	0.86	0.35
7.05	0.64	0.44	0.18	9.65	1.08	0.87	0.36
7.10	0.64	0.45	0.19	9.70	1.10	0.88	0.36
7.15	0.65	0.46	0.19	9.75	1.11	0.90	0.37
7.20	0.66	0.46	0.19	9.80	1.12	0.91	0.38
7.25	0.66	0.47	0.19	9.85	1.13	0.92	0.38
7.30	0.67	0.47	0.19	9.90	1.15	0.94	0.39
7.35	0.68	0.48	0.20	9.95	1.16	0.95	0.40
7.40	0.68	0.49	0.20	10.00	1.18	0.96	0.41
7.45	0.69	0.49	0.20	10.05	1.19	0.98	0.41
7.50	0.70	0.50	0.20	10.10	1.20	0.99	0.42
7.55	0.70	0.51	0.20	10.15	1.22	1.00	0.43
7.60	0.71	0.51	0.21	10.20	1.23	1.02	0.44
7.65	0.72	0.52	0.21	10.25	1.25	1.03	0.44
7.70	0.73	0.53	0.21	10.30	1.27	1.05	0.45
7.75	0.73	0.54	0.21	10.35	1.28	1.06	0.46

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.30	1.08	0.46	13.00	4.90	4.67	0.91
10.45	1.31	1.10	0.47	13.05	4.93	4.69	0.85
10.50	1.33	1.11	0.48	13.10	4.95	4.72	0.80
10.55	1.35	1.13	0.50	13.15	4.98	4.74	0.76
10.60	1.37	1.15	0.52	13.20	5.00	4.76	0.73
10.65	1.39	1.17	0.55	13.25	5.02	4.79	0.70
10.70	1.41	1.19	0.58	13.30	5.04	4.81	0.68
10.75	1.43	1.21	0.61	13.35	5.06	4.83	0.64
10.80	1.45	1.23	0.63	13.40	5.08	4.85	0.62
10.85	1.47	1.25	0.67	13.45	5.10	4.87	0.59
10.90	1.50	1.28	0.69	13.50	5.12	4.88	0.56
10.95	1.52	1.30	0.72	13.55	5.14	4.90	0.53
11.00	1.55	1.33	0.75	13.60	5.15	4.92	0.51
11.05	1.58	1.36	0.80	13.65	5.17	4.93	0.49
11.10	1.61	1.38	0.84	13.70	5.18	4.95	0.48
11.15	1.64	1.42	0.89	13.75	5.20	4.96	0.47
11.20	1.67	1.45	0.94	13.80	5.22	4.98	0.47
11.25	1.71	1.48	1.00	13.85	5.23	4.99	0.46
11.30	1.74	1.52	1.04	13.90	5.25	5.01	0.45
11.35	1.78	1.56	1.10	13.95	5.26	5.02	0.44
11.40	1.82	1.60	1.15	14.00	5.27	5.04	0.44
11.45	1.86	1.64	1.20	14.05	5.29	5.05	0.43
11.50	1.91	1.68	1.24	14.10	5.30	5.06	0.42
11.55	1.97	1.75	1.52	14.15	5.32	5.08	0.42
11.60	2.04	1.81	1.77	14.20	5.33	5.09	0.41
11.65	2.11	1.88	1.92	14.25	5.34	5.10	0.40
11.70	2.17	1.95	2.01	14.30	5.35	5.12	0.39
11.75	2.27	2.04	2.33	14.35	5.37	5.13	0.39
11.80	2.36	2.13	2.63	14.40	5.38	5.14	0.38
11.85	2.49	2.26	3.17	14.45	5.39	5.15	0.37
11.90	2.62	2.39	3.62	14.50	5.40	5.17	0.37
11.95	2.85	2.62	4.90	14.55	5.41	5.18	0.36
12.00	3.07	2.84	6.02	14.60	5.43	5.19	0.35
12.05	3.45	3.22	8.23	14.65	5.44	5.20	0.34
12.10	3.83	3.59	**10.09**	14.70	5.45	5.21	0.34
12.15	3.96	3.72	**8.05**	14.75	5.46	5.22	0.33
12.20	4.09	3.85	5.68	14.80	5.47	5.23	0.32
12.25	4.18	3.95	4.22	14.85	5.48	5.24	0.31
12.30	4.28	4.04	3.35	14.90	5.49	5.25	0.31
12.35	4.34	4.11	2.73	14.95	5.50	5.26	0.30
12.40	4.41	4.18	2.32	15.00	5.51	5.27	0.29
12.45	4.48	4.24	2.12	15.05	5.52	5.28	0.28
12.50	4.54	4.31	2.02	15.10	5.53	5.29	0.28
12.55	4.59	4.35	1.72	15.15	5.54	5.30	0.27
12.60	4.63	4.39	1.45	15.20	5.54	5.31	0.27
12.65	4.67	4.43	1.31	15.25	5.55	5.32	0.27
12.70	4.71	4.47	1.23	15.30	5.56	5.32	0.27
12.75	4.74	4.51	1.17	15.35	5.57	5.33	0.26
12.80	4.78	4.54	1.12	15.40	5.58	5.34	0.26
12.85	4.81	4.57	1.06	15.45	5.59	5.35	0.26
12.90	4.84	4.61	1.01	15.50	5.60	5.36	0.26
12.95	4.87	4.64	0.95	15.55	5.60	5.37	0.26

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.61	5.37	0.26	18.20	5.96	5.72	0.16
15.65	5.62	5.38	0.25	18.25	5.96	5.73	0.16
15.70	5.63	5.39	0.25	18.30	5.97	5.73	0.16
15.75	5.64	5.40	0.25	18.35	5.97	5.74	0.15
15.80	5.65	5.41	0.25	18.40	5.98	5.74	0.15
15.85	5.65	5.42	0.24	18.45	5.99	5.75	0.15
15.90	5.66	5.42	0.24	18.50	5.99	5.75	0.15
15.95	5.67	5.43	0.24	18.55	6.00	5.76	0.15
16.00	5.68	5.44	0.24	18.60	6.00	5.76	0.15
16.05	5.68	5.45	0.24	18.65	6.01	5.77	0.15
16.10	5.69	5.45	0.24	18.70	6.01	5.77	0.15
16.15	5.70	5.46	0.23	18.75	6.02	5.78	0.15
16.20	5.71	5.47	0.23	18.80	6.02	5.78	0.15
16.25	5.72	5.48	0.23	18.85	6.03	5.79	0.15
16.30	5.72	5.49	0.23	18.90	6.03	5.79	0.15
16.35	5.73	5.49	0.23	18.95	6.03	5.80	0.15
16.40	5.74	5.50	0.22	19.00	6.04	5.80	0.15
16.45	5.75	5.51	0.22	19.05	6.04	5.81	0.15
16.50	5.75	5.51	0.22	19.10	6.05	5.81	0.15
16.55	5.76	5.52	0.22	19.15	6.05	5.82	0.15
16.60	5.77	5.53	0.22	19.20	6.06	5.82	0.15
16.65	5.77	5.54	0.21	19.25	6.06	5.83	0.15
16.70	5.78	5.54	0.21	19.30	6.07	5.83	0.15
16.75	5.79	5.55	0.21	19.35	6.07	5.84	0.14
16.80	5.79	5.56	0.21	19.40	6.08	5.84	0.14
16.85	5.80	5.56	0.21	19.45	6.08	5.84	0.14
16.90	5.81	5.57	0.20	19.50	6.09	5.85	0.14
16.95	5.81	5.58	0.20	19.55	6.09	5.85	0.14
17.00	5.82	5.58	0.20	19.60	6.10	5.86	0.14
17.05	5.83	5.59	0.20	19.65	6.10	5.86	0.14
17.10	5.83	5.60	0.20	19.70	6.11	5.87	0.14
17.15	5.84	5.60	0.19	19.75	6.11	5.87	0.14
17.20	5.85	5.61	0.19	19.80	6.12	5.88	0.14
17.25	5.85	5.61	0.19	19.85	6.12	5.88	0.14
17.30	5.86	5.62	0.19	19.90	6.13	5.89	0.14
17.35	5.87	5.63	0.19	19.95	6.13	5.89	0.14
17.40	5.87	5.63	0.19	20.00	6.13	5.90	0.14
17.45	5.88	5.64	0.18	20.05	6.14	5.90	0.14
17.50	5.88	5.65	0.18	20.10	6.14	5.91	0.14
17.55	5.89	5.65	0.18	20.15	6.15	5.91	0.14
17.60	5.89	5.66	0.18	20.20	6.15	5.91	0.14
17.65	5.90	5.66	0.18	20.25	6.16	5.92	0.14
17.70	5.91	5.67	0.17	20.30	6.16	5.92	0.14
17.75	5.91	5.67	0.17	20.35	6.17	5.93	0.14
17.80	5.92	5.68	0.17	20.40	6.17	5.93	0.13
17.85	5.92	5.68	0.17	20.45	6.17	5.94	0.13
17.90	5.93	5.69	0.17	20.50	6.18	5.94	0.13
17.95	5.93	5.70	0.16	20.55	6.18	5.95	0.13
18.00	5.94	5.70	0.16	20.60	6.19	5.95	0.13
18.05	5.94	5.71	0.16	20.65	6.19	5.95	0.13
18.10	5.95	5.71	0.16	20.70	6.20	5.96	0.13
18.15	5.95	5.72	0.16	20.75	6.20	5.96	0.13

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

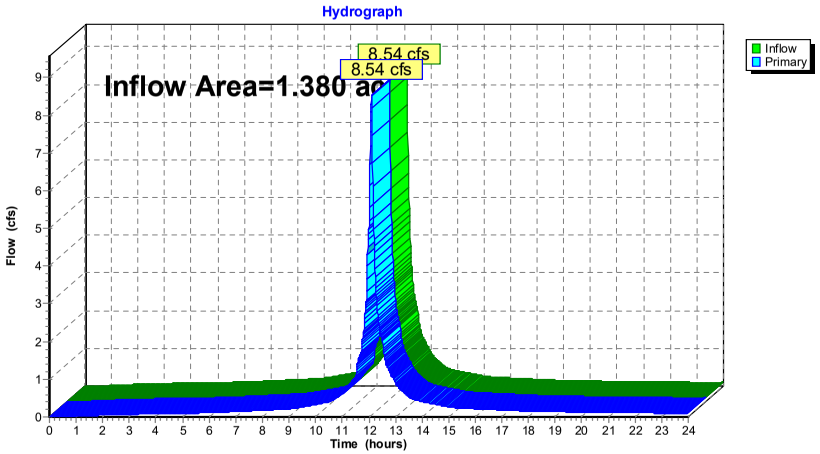
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	6.21	5.97	0.13	23.40	6.41	6.17	0.11
20.85	6.21	5.97	0.13	23.45	6.41	6.17	0.11
20.90	6.21	5.98	0.13	23.50	6.41	6.18	0.10
20.95	6.22	5.98	0.13	23.55	6.42	6.18	0.10
21.00	6.22	5.98	0.13	23.60	6.42	6.18	0.10
21.05	6.23	5.99	0.13	23.65	6.42	6.19	0.10
21.10	6.23	5.99	0.13	23.70	6.43	6.19	0.10
21.15	6.24	6.00	0.13	23.75	6.43	6.19	0.10
21.20	6.24	6.00	0.13	23.80	6.44	6.20	0.10
21.25	6.24	6.01	0.13	23.85	6.44	6.20	0.10
21.30	6.25	6.01	0.13	23.90	6.44	6.20	0.10
21.35	6.25	6.01	0.13	23.95	6.45	6.21	0.11
21.40	6.26	6.02	0.13	24.00	**6.45**	**6.21**	0.12
21.45	6.26	6.02	0.12				
21.50	6.26	6.03	0.12				
21.55	6.27	6.03	0.12				
21.60	6.27	6.03	0.12				
21.65	6.28	6.04	0.12				
21.70	6.28	6.04	0.12				
21.75	6.28	6.05	0.12				
21.80	6.29	6.05	0.12				
21.85	6.29	6.05	0.12				
21.90	6.30	6.06	0.12				
21.95	6.30	6.06	0.12				
22.00	6.30	6.07	0.12				
22.05	6.31	6.07	0.12				
22.10	6.31	6.07	0.12				
22.15	6.32	6.08	0.12				
22.20	6.32	6.08	0.12				
22.25	6.32	6.09	0.12				
22.30	6.33	6.09	0.12				
22.35	6.33	6.09	0.12				
22.40	6.34	6.10	0.12				
22.45	6.34	6.10	0.11				
22.50	6.34	6.10	0.11				
22.55	6.35	6.11	0.11				
22.60	6.35	6.11	0.11				
22.65	6.35	6.12	0.11				
22.70	6.36	6.12	0.11				
22.75	6.36	6.12	0.11				
22.80	6.36	6.13	0.11				
22.85	6.37	6.13	0.11				
22.90	6.37	6.13	0.11				
22.95	6.38	6.14	0.11				
23.00	6.38	6.14	0.11				
23.05	6.38	6.14	0.11				
23.10	6.39	6.15	0.11				
23.15	6.39	6.15	0.11				
23.20	6.39	6.16	0.11				
23.25	6.40	6.16	0.11				
23.30	6.40	6.16	0.11				
23.35	6.40	6.17	0.11				

Summary for Link P1A: P1A

Inflow Area = 1.380 ac, 80.43% Impervious, Inflow Depth > 5.89" for 25YR CURRENT event
Inflow = 8.54 cfs @ 12.11 hrs, Volume= 0.678 af
Primary = 8.54 cfs @ 12.11 hrs, Volume= 0.678 af, Atten= 0%, Lag= 0.0 min
Routed to Link PPOI-1 : PPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link P1A: P1A



Hydrograph for Link P1A: P1A

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.06	0.00	0.06
0.05	0.00	0.00	0.00	2.65	0.06	0.00	0.06
0.10	0.00	0.00	0.00	2.70	0.06	0.00	0.06
0.15	0.00	0.00	0.00	2.75	0.06	0.00	0.06
0.20	0.00	0.00	0.00	2.80	0.06	0.00	0.06
0.25	0.00	0.00	0.00	2.85	0.07	0.00	0.07
0.30	0.00	0.00	0.00	2.90	0.07	0.00	0.07
0.35	0.00	0.00	0.00	2.95	0.07	0.00	0.07
0.40	0.00	0.00	0.00	3.00	0.07	0.00	0.07
0.45	0.00	0.00	0.00	3.05	0.07	0.00	0.07
0.50	0.00	0.00	0.00	3.10	0.07	0.00	0.07
0.55	0.00	0.00	0.00	3.15	0.07	0.00	0.07
0.60	0.00	0.00	0.00	3.20	0.07	0.00	0.07
0.65	0.00	0.00	0.00	3.25	0.07	0.00	0.07
0.70	0.00	0.00	0.00	3.30	0.07	0.00	0.07
0.75	0.01	0.00	0.01	3.35	0.07	0.00	0.07
0.80	0.01	0.00	0.01	3.40	0.07	0.00	0.07
0.85	0.01	0.00	0.01	3.45	0.08	0.00	0.08
0.90	0.01	0.00	0.01	3.50	0.08	0.00	0.08
0.95	0.01	0.00	0.01	3.55	0.08	0.00	0.08
1.00	0.02	0.00	0.02	3.60	0.08	0.00	0.08
1.05	0.02	0.00	0.02	3.65	0.08	0.00	0.08
1.10	0.02	0.00	0.02	3.70	0.08	0.00	0.08
1.15	0.02	0.00	0.02	3.75	0.08	0.00	0.08
1.20	0.02	0.00	0.02	3.80	0.08	0.00	0.08
1.25	0.03	0.00	0.03	3.85	0.08	0.00	0.08
1.30	0.03	0.00	0.03	3.90	0.08	0.00	0.08
1.35	0.03	0.00	0.03	3.95	0.08	0.00	0.08
1.40	0.03	0.00	0.03	4.00	0.08	0.00	0.08
1.45	0.03	0.00	0.03	4.05	0.08	0.00	0.08
1.50	0.03	0.00	0.03	4.10	0.08	0.00	0.08
1.55	0.04	0.00	0.04	4.15	0.08	0.00	0.08
1.60	0.04	0.00	0.04	4.20	0.09	0.00	0.09
1.65	0.04	0.00	0.04	4.25	0.09	0.00	0.09
1.70	0.04	0.00	0.04	4.30	0.09	0.00	0.09
1.75	0.04	0.00	0.04	4.35	0.09	0.00	0.09
1.80	0.04	0.00	0.04	4.40	0.09	0.00	0.09
1.85	0.04	0.00	0.04	4.45	0.09	0.00	0.09
1.90	0.05	0.00	0.05	4.50	0.09	0.00	0.09
1.95	0.05	0.00	0.05	4.55	0.09	0.00	0.09
2.00	0.05	0.00	0.05	4.60	0.09	0.00	0.09
2.05	0.05	0.00	0.05	4.65	0.09	0.00	0.09
2.10	0.05	0.00	0.05	4.70	0.09	0.00	0.09
2.15	0.05	0.00	0.05	4.75	0.09	0.00	0.09
2.20	0.05	0.00	0.05	4.80	0.09	0.00	0.09
2.25	0.05	0.00	0.05	4.85	0.09	0.00	0.09
2.30	0.06	0.00	0.06	4.90	0.09	0.00	0.09
2.35	0.06	0.00	0.06	4.95	0.09	0.00	0.09
2.40	0.06	0.00	0.06	5.00	0.09	0.00	0.09
2.45	0.06	0.00	0.06	5.05	0.10	0.00	0.10
2.50	0.06	0.00	0.06	5.10	0.10	0.00	0.10
2.55	0.06	0.00	0.06	5.15	0.10	0.00	0.10

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.10	0.00	0.10	7.80	0.17	0.00	0.17
5.25	0.10	0.00	0.10	7.85	0.17	0.00	0.17
5.30	0.10	0.00	0.10	7.90	0.17	0.00	0.17
5.35	0.10	0.00	0.10	7.95	0.17	0.00	0.17
5.40	0.10	0.00	0.10	8.00	0.18	0.00	0.18
5.45	0.10	0.00	0.10	8.05	0.18	0.00	0.18
5.50	0.10	0.00	0.10	8.10	0.18	0.00	0.18
5.55	0.10	0.00	0.10	8.15	0.18	0.00	0.18
5.60	0.10	0.00	0.10	8.20	0.18	0.00	0.18
5.65	0.10	0.00	0.10	8.25	0.19	0.00	0.19
5.70	0.10	0.00	0.10	8.30	0.19	0.00	0.19
5.75	0.10	0.00	0.10	8.35	0.19	0.00	0.19
5.80	0.11	0.00	0.11	8.40	0.19	0.00	0.19
5.85	0.11	0.00	0.11	8.45	0.19	0.00	0.19
5.90	0.11	0.00	0.11	8.50	0.19	0.00	0.19
5.95	0.11	0.00	0.11	8.55	0.20	0.00	0.20
6.00	0.11	0.00	0.11	8.60	0.20	0.00	0.20
6.05	0.11	0.00	0.11	8.65	0.20	0.00	0.20
6.10	0.11	0.00	0.11	8.70	0.20	0.00	0.20
6.15	0.11	0.00	0.11	8.75	0.20	0.00	0.20
6.20	0.11	0.00	0.11	8.80	0.20	0.00	0.20
6.25	0.12	0.00	0.12	8.85	0.21	0.00	0.21
6.30	0.12	0.00	0.12	8.90	0.21	0.00	0.21
6.35	0.12	0.00	0.12	8.95	0.21	0.00	0.21
6.40	0.12	0.00	0.12	9.00	0.21	0.00	0.21
6.45	0.12	0.00	0.12	9.05	0.22	0.00	0.22
6.50	0.12	0.00	0.12	9.10	0.22	0.00	0.22
6.55	0.13	0.00	0.13	9.15	0.23	0.00	0.23
6.60	0.13	0.00	0.13	9.20	0.23	0.00	0.23
6.65	0.13	0.00	0.13	9.25	0.24	0.00	0.24
6.70	0.13	0.00	0.13	9.30	0.25	0.00	0.25
6.75	0.13	0.00	0.13	9.35	0.25	0.00	0.25
6.80	0.13	0.00	0.13	9.40	0.26	0.00	0.26
6.85	0.14	0.00	0.14	9.45	0.27	0.00	0.27
6.90	0.14	0.00	0.14	9.50	0.27	0.00	0.27
6.95	0.14	0.00	0.14	9.55	0.28	0.00	0.28
7.00	0.14	0.00	0.14	9.60	0.28	0.00	0.28
7.05	0.14	0.00	0.14	9.65	0.29	0.00	0.29
7.10	0.14	0.00	0.14	9.70	0.30	0.00	0.30
7.15	0.15	0.00	0.15	9.75	0.30	0.00	0.30
7.20	0.15	0.00	0.15	9.80	0.31	0.00	0.31
7.25	0.15	0.00	0.15	9.85	0.32	0.00	0.32
7.30	0.15	0.00	0.15	9.90	0.32	0.00	0.32
7.35	0.15	0.00	0.15	9.95	0.33	0.00	0.33
7.40	0.15	0.00	0.15	10.00	0.33	0.00	0.33
7.45	0.16	0.00	0.16	10.05	0.34	0.00	0.34
7.50	0.16	0.00	0.16	10.10	0.35	0.00	0.35
7.55	0.16	0.00	0.16	10.15	0.35	0.00	0.35
7.60	0.16	0.00	0.16	10.20	0.36	0.00	0.36
7.65	0.16	0.00	0.16	10.25	0.37	0.00	0.37
7.70	0.17	0.00	0.17	10.30	0.37	0.00	0.37
7.75	0.17	0.00	0.17	10.35	0.38	0.00	0.38

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.38	0.00	0.38	13.00	0.92	0.00	0.92
10.45	0.39	0.00	0.39	13.05	0.85	0.00	0.85
10.50	0.40	0.00	0.40	13.10	0.80	0.00	0.80
10.55	0.42	0.00	0.42	13.15	0.75	0.00	0.75
10.60	0.44	0.00	0.44	13.20	0.72	0.00	0.72
10.65	0.46	0.00	0.46	13.25	0.69	0.00	0.69
10.70	0.48	0.00	0.48	13.30	0.66	0.00	0.66
10.75	0.51	0.00	0.51	13.35	0.62	0.00	0.62
10.80	0.53	0.00	0.53	13.40	0.60	0.00	0.60
10.85	0.56	0.00	0.56	13.45	0.57	0.00	0.57
10.90	0.57	0.00	0.57	13.50	0.54	0.00	0.54
10.95	0.60	0.00	0.60	13.55	0.51	0.00	0.51
11.00	0.62	0.00	0.62	13.60	0.49	0.00	0.49
11.05	0.67	0.00	0.67	13.65	0.47	0.00	0.47
11.10	0.70	0.00	0.70	13.70	0.46	0.00	0.46
11.15	0.75	0.00	0.75	13.75	0.45	0.00	0.45
11.20	0.79	0.00	0.79	13.80	0.44	0.00	0.44
11.25	0.84	0.00	0.84	13.85	0.43	0.00	0.43
11.30	0.87	0.00	0.87	13.90	0.42	0.00	0.42
11.35	0.93	0.00	0.93	13.95	0.41	0.00	0.41
11.40	0.96	0.00	0.96	14.00	0.41	0.00	0.41
11.45	1.01	0.00	1.01	14.05	0.40	0.00	0.40
11.50	1.04	0.00	1.04	14.10	0.39	0.00	0.39
11.55	1.32	0.00	1.32	14.15	0.38	0.00	0.38
11.60	1.50	0.00	1.50	14.20	0.38	0.00	0.38
11.65	1.61	0.00	1.61	14.25	0.37	0.00	0.37
11.70	1.67	0.00	1.67	14.30	0.36	0.00	0.36
11.75	2.00	0.00	2.00	14.35	0.36	0.00	0.36
11.80	2.21	0.00	2.21	14.40	0.35	0.00	0.35
11.85	2.73	0.00	2.73	14.45	0.34	0.00	0.34
11.90	3.04	0.00	3.04	14.50	0.34	0.00	0.34
11.95	4.29	0.00	4.29	14.55	0.33	0.00	0.33
12.00	5.07	0.00	5.07	14.60	0.32	0.00	0.32
12.05	7.17	0.00	7.17	14.65	0.31	0.00	0.31
12.10	**8.46**	0.00	**8.46**	14.70	0.31	0.00	0.31
12.15	**6.12**	0.00	**6.12**	14.75	0.30	0.00	0.30
12.20	4.53	0.00	4.53	14.80	0.30	0.00	0.30
12.25	3.55	0.00	3.55	14.85	0.29	0.00	0.29
12.30	3.09	0.00	3.09	14.90	0.28	0.00	0.28
12.35	2.61	0.00	2.61	14.95	0.28	0.00	0.28
12.40	2.34	0.00	2.34	15.00	0.27	0.00	0.27
12.45	2.18	0.00	2.18	15.05	0.26	0.00	0.26
12.50	2.08	0.00	2.08	15.10	0.26	0.00	0.26
12.55	1.75	0.00	1.75	15.15	0.25	0.00	0.25
12.60	1.54	0.00	1.54	15.20	0.25	0.00	0.25
12.65	1.40	0.00	1.40	15.25	0.25	0.00	0.25
12.70	1.33	0.00	1.33	15.30	0.25	0.00	0.25
12.75	1.24	0.00	1.24	15.35	0.24	0.00	0.24
12.80	1.18	0.00	1.18	15.40	0.24	0.00	0.24
12.85	1.10	0.00	1.10	15.45	0.24	0.00	0.24
12.90	1.04	0.00	1.04	15.50	0.24	0.00	0.24
12.95	0.97	0.00	0.97	15.55	0.24	0.00	0.24

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.23	0.00	0.23	18.20	0.14	0.00	0.14
15.65	0.23	0.00	0.23	18.25	0.14	0.00	0.14
15.70	0.23	0.00	0.23	18.30	0.14	0.00	0.14
15.75	0.23	0.00	0.23	18.35	0.14	0.00	0.14
15.80	0.23	0.00	0.23	18.40	0.14	0.00	0.14
15.85	0.22	0.00	0.22	18.45	0.14	0.00	0.14
15.90	0.22	0.00	0.22	18.50	0.14	0.00	0.14
15.95	0.22	0.00	0.22	18.55	0.14	0.00	0.14
16.00	0.22	0.00	0.22	18.60	0.14	0.00	0.14
16.05	0.22	0.00	0.22	18.65	0.14	0.00	0.14
16.10	0.22	0.00	0.22	18.70	0.14	0.00	0.14
16.15	0.21	0.00	0.21	18.75	0.14	0.00	0.14
16.20	0.21	0.00	0.21	18.80	0.14	0.00	0.14
16.25	0.21	0.00	0.21	18.85	0.14	0.00	0.14
16.30	0.21	0.00	0.21	18.90	0.14	0.00	0.14
16.35	0.21	0.00	0.21	18.95	0.14	0.00	0.14
16.40	0.20	0.00	0.20	19.00	0.14	0.00	0.14
16.45	0.20	0.00	0.20	19.05	0.13	0.00	0.13
16.50	0.20	0.00	0.20	19.10	0.13	0.00	0.13
16.55	0.20	0.00	0.20	19.15	0.13	0.00	0.13
16.60	0.20	0.00	0.20	19.20	0.13	0.00	0.13
16.65	0.20	0.00	0.20	19.25	0.13	0.00	0.13
16.70	0.19	0.00	0.19	19.30	0.13	0.00	0.13
16.75	0.19	0.00	0.19	19.35	0.13	0.00	0.13
16.80	0.19	0.00	0.19	19.40	0.13	0.00	0.13
16.85	0.19	0.00	0.19	19.45	0.13	0.00	0.13
16.90	0.19	0.00	0.19	19.50	0.13	0.00	0.13
16.95	0.19	0.00	0.19	19.55	0.13	0.00	0.13
17.00	0.18	0.00	0.18	19.60	0.13	0.00	0.13
17.05	0.18	0.00	0.18	19.65	0.13	0.00	0.13
17.10	0.18	0.00	0.18	19.70	0.13	0.00	0.13
17.15	0.18	0.00	0.18	19.75	0.13	0.00	0.13
17.20	0.18	0.00	0.18	19.80	0.13	0.00	0.13
17.25	0.17	0.00	0.17	19.85	0.13	0.00	0.13
17.30	0.17	0.00	0.17	19.90	0.13	0.00	0.13
17.35	0.17	0.00	0.17	19.95	0.13	0.00	0.13
17.40	0.17	0.00	0.17	20.00	0.13	0.00	0.13
17.45	0.17	0.00	0.17	20.05	0.13	0.00	0.13
17.50	0.17	0.00	0.17	20.10	0.13	0.00	0.13
17.55	0.16	0.00	0.16	20.15	0.13	0.00	0.13
17.60	0.16	0.00	0.16	20.20	0.12	0.00	0.12
17.65	0.16	0.00	0.16	20.25	0.12	0.00	0.12
17.70	0.16	0.00	0.16	20.30	0.12	0.00	0.12
17.75	0.16	0.00	0.16	20.35	0.12	0.00	0.12
17.80	0.16	0.00	0.16	20.40	0.12	0.00	0.12
17.85	0.15	0.00	0.15	20.45	0.12	0.00	0.12
17.90	0.15	0.00	0.15	20.50	0.12	0.00	0.12
17.95	0.15	0.00	0.15	20.55	0.12	0.00	0.12
18.00	0.15	0.00	0.15	20.60	0.12	0.00	0.12
18.05	0.15	0.00	0.15	20.65	0.12	0.00	0.12
18.10	0.15	0.00	0.15	20.70	0.12	0.00	0.12
18.15	0.14	0.00	0.14	20.75	0.12	0.00	0.12

Hydrograph for Link P1A: P1A (continued)

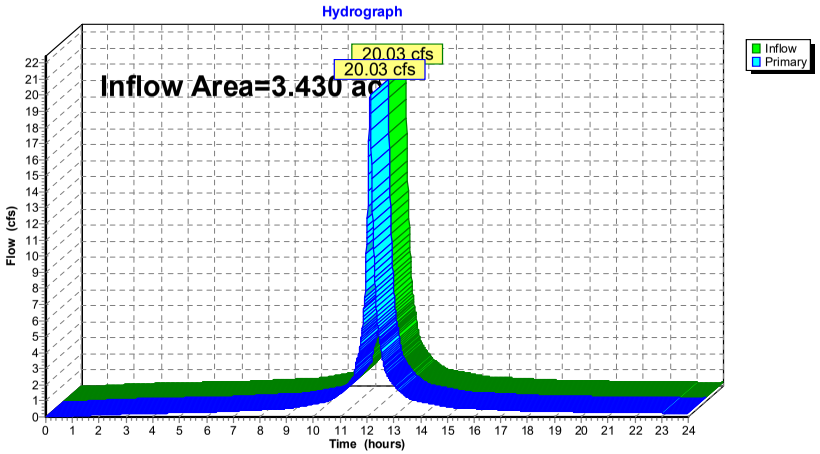
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.12	0.00	0.12	23.40	0.10	0.00	0.10
20.85	0.12	0.00	0.12	23.45	0.10	0.00	0.10
20.90	0.12	0.00	0.12	23.50	0.10	0.00	0.10
20.95	0.12	0.00	0.12	23.55	0.10	0.00	0.10
21.00	0.12	0.00	0.12	23.60	0.09	0.00	0.09
21.05	0.12	0.00	0.12	23.65	0.09	0.00	0.09
21.10	0.12	0.00	0.12	23.70	0.09	0.00	0.09
21.15	0.12	0.00	0.12	23.75	0.09	0.00	0.09
21.20	0.12	0.00	0.12	23.80	0.09	0.00	0.09
21.25	0.12	0.00	0.12	23.85	0.09	0.00	0.09
21.30	0.12	0.00	0.12	23.90	0.09	0.00	0.09
21.35	0.11	0.00	0.11	23.95	0.10	0.00	0.10
21.40	0.11	0.00	0.11	24.00	0.11	0.00	0.11
21.45	0.11	0.00	0.11				
21.50	0.11	0.00	0.11				
21.55	0.11	0.00	0.11				
21.60	0.11	0.00	0.11				
21.65	0.11	0.00	0.11				
21.70	0.11	0.00	0.11				
21.75	0.11	0.00	0.11				
21.80	0.11	0.00	0.11				
21.85	0.11	0.00	0.11				
21.90	0.11	0.00	0.11				
21.95	0.11	0.00	0.11				
22.00	0.11	0.00	0.11				
22.05	0.11	0.00	0.11				
22.10	0.11	0.00	0.11				
22.15	0.11	0.00	0.11				
22.20	0.11	0.00	0.11				
22.25	0.11	0.00	0.11				
22.30	0.11	0.00	0.11				
22.35	0.11	0.00	0.11				
22.40	0.11	0.00	0.11				
22.45	0.10	0.00	0.10				
22.50	0.10	0.00	0.10				
22.55	0.10	0.00	0.10				
22.60	0.10	0.00	0.10				
22.65	0.10	0.00	0.10				
22.70	0.10	0.00	0.10				
22.75	0.10	0.00	0.10				
22.80	0.10	0.00	0.10				
22.85	0.10	0.00	0.10				
22.90	0.10	0.00	0.10				
22.95	0.10	0.00	0.10				
23.00	0.10	0.00	0.10				
23.05	0.10	0.00	0.10				
23.10	0.10	0.00	0.10				
23.15	0.10	0.00	0.10				
23.20	0.10	0.00	0.10				
23.25	0.10	0.00	0.10				
23.30	0.10	0.00	0.10				
23.35	0.10	0.00	0.10				

Summary for Link P1B: P1B

Inflow Area = 3.430 ac, 82.22% Impervious, Inflow Depth > 5.67" for 25YR CURRENT event
Inflow = 20.03 cfs @ 12.12 hrs, Volume= 1.620 af
Primary = 20.03 cfs @ 12.12 hrs, Volume= 1.620 af, Atten= 0%, Lag= 0.0 min
Routed to Link PPOI-1 : PPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link P1B: P1B



Hydrograph for Link P1B: P1B

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.16	0.00	0.16
0.05	0.00	0.00	0.00	2.65	0.16	0.00	0.16
0.10	0.00	0.00	0.00	2.70	0.17	0.00	0.17
0.15	0.00	0.00	0.00	2.75	0.17	0.00	0.17
0.20	0.00	0.00	0.00	2.80	0.17	0.00	0.17
0.25	0.00	0.00	0.00	2.85	0.18	0.00	0.18
0.30	0.00	0.00	0.00	2.90	0.18	0.00	0.18
0.35	0.00	0.00	0.00	2.95	0.18	0.00	0.18
0.40	0.00	0.00	0.00	3.00	0.18	0.00	0.18
0.45	0.00	0.00	0.00	3.05	0.18	0.00	0.18
0.50	0.00	0.00	0.00	3.10	0.19	0.00	0.19
0.55	0.00	0.00	0.00	3.15	0.19	0.00	0.19
0.60	0.00	0.00	0.00	3.20	0.19	0.00	0.19
0.65	0.00	0.00	0.00	3.25	0.19	0.00	0.19
0.70	0.01	0.00	0.01	3.30	0.19	0.00	0.19
0.75	0.01	0.00	0.01	3.35	0.20	0.00	0.20
0.80	0.02	0.00	0.02	3.40	0.20	0.00	0.20
0.85	0.02	0.00	0.02	3.45	0.20	0.00	0.20
0.90	0.03	0.00	0.03	3.50	0.20	0.00	0.20
0.95	0.03	0.00	0.03	3.55	0.21	0.00	0.21
1.00	0.04	0.00	0.04	3.60	0.21	0.00	0.21
1.05	0.05	0.00	0.05	3.65	0.21	0.00	0.21
1.10	0.05	0.00	0.05	3.70	0.21	0.00	0.21
1.15	0.06	0.00	0.06	3.75	0.21	0.00	0.21
1.20	0.06	0.00	0.06	3.80	0.21	0.00	0.21
1.25	0.07	0.00	0.07	3.85	0.22	0.00	0.22
1.30	0.07	0.00	0.07	3.90	0.22	0.00	0.22
1.35	0.08	0.00	0.08	3.95	0.22	0.00	0.22
1.40	0.08	0.00	0.08	4.00	0.22	0.00	0.22
1.45	0.09	0.00	0.09	4.05	0.22	0.00	0.22
1.50	0.09	0.00	0.09	4.10	0.23	0.00	0.23
1.55	0.09	0.00	0.09	4.15	0.23	0.00	0.23
1.60	0.10	0.00	0.10	4.20	0.23	0.00	0.23
1.65	0.10	0.00	0.10	4.25	0.23	0.00	0.23
1.70	0.11	0.00	0.11	4.30	0.23	0.00	0.23
1.75	0.11	0.00	0.11	4.35	0.23	0.00	0.23
1.80	0.11	0.00	0.11	4.40	0.24	0.00	0.24
1.85	0.12	0.00	0.12	4.45	0.24	0.00	0.24
1.90	0.12	0.00	0.12	4.50	0.24	0.00	0.24
1.95	0.12	0.00	0.12	4.55	0.24	0.00	0.24
2.00	0.13	0.00	0.13	4.60	0.24	0.00	0.24
2.05	0.13	0.00	0.13	4.65	0.24	0.00	0.24
2.10	0.13	0.00	0.13	4.70	0.25	0.00	0.25
2.15	0.14	0.00	0.14	4.75	0.25	0.00	0.25
2.20	0.14	0.00	0.14	4.80	0.25	0.00	0.25
2.25	0.14	0.00	0.14	4.85	0.25	0.00	0.25
2.30	0.15	0.00	0.15	4.90	0.25	0.00	0.25
2.35	0.15	0.00	0.15	4.95	0.25	0.00	0.25
2.40	0.15	0.00	0.15	5.00	0.25	0.00	0.25
2.45	0.15	0.00	0.15	5.05	0.26	0.00	0.26
2.50	0.16	0.00	0.16	5.10	0.26	0.00	0.26
2.55	0.16	0.00	0.16	5.15	0.26	0.00	0.26

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.26	0.00	0.26	7.80	0.42	0.00	0.42
5.25	0.26	0.00	0.26	7.85	0.43	0.00	0.43
5.30	0.26	0.00	0.26	7.90	0.43	0.00	0.43
5.35	0.26	0.00	0.26	7.95	0.44	0.00	0.44
5.40	0.27	0.00	0.27	8.00	0.44	0.00	0.44
5.45	0.27	0.00	0.27	8.05	0.45	0.00	0.45
5.50	0.27	0.00	0.27	8.10	0.45	0.00	0.45
5.55	0.27	0.00	0.27	8.15	0.45	0.00	0.45
5.60	0.27	0.00	0.27	8.20	0.46	0.00	0.46
5.65	0.27	0.00	0.27	8.25	0.46	0.00	0.46
5.70	0.27	0.00	0.27	8.30	0.47	0.00	0.47
5.75	0.28	0.00	0.28	8.35	0.47	0.00	0.47
5.80	0.28	0.00	0.28	8.40	0.47	0.00	0.47
5.85	0.28	0.00	0.28	8.45	0.48	0.00	0.48
5.90	0.28	0.00	0.28	8.50	0.48	0.00	0.48
5.95	0.28	0.00	0.28	8.55	0.49	0.00	0.49
6.00	0.28	0.00	0.28	8.60	0.49	0.00	0.49
6.05	0.29	0.00	0.29	8.65	0.49	0.00	0.49
6.10	0.29	0.00	0.29	8.70	0.50	0.00	0.50
6.15	0.29	0.00	0.29	8.75	0.50	0.00	0.50
6.20	0.30	0.00	0.30	8.80	0.51	0.00	0.51
6.25	0.30	0.00	0.30	8.85	0.51	0.00	0.51
6.30	0.30	0.00	0.30	8.90	0.51	0.00	0.51
6.35	0.31	0.00	0.31	8.95	0.52	0.00	0.52
6.40	0.31	0.00	0.31	9.00	0.52	0.00	0.52
6.45	0.32	0.00	0.32	9.05	0.53	0.00	0.53
6.50	0.32	0.00	0.32	9.10	0.54	0.00	0.54
6.55	0.32	0.00	0.32	9.15	0.56	0.00	0.56
6.60	0.33	0.00	0.33	9.20	0.57	0.00	0.57
6.65	0.33	0.00	0.33	9.25	0.58	0.00	0.58
6.70	0.34	0.00	0.34	9.30	0.60	0.00	0.60
6.75	0.34	0.00	0.34	9.35	0.61	0.00	0.61
6.80	0.34	0.00	0.34	9.40	0.63	0.00	0.63
6.85	0.35	0.00	0.35	9.45	0.64	0.00	0.64
6.90	0.35	0.00	0.35	9.50	0.66	0.00	0.66
6.95	0.36	0.00	0.36	9.55	0.67	0.00	0.67
7.00	0.36	0.00	0.36	9.60	0.69	0.00	0.69
7.05	0.36	0.00	0.36	9.65	0.70	0.00	0.70
7.10	0.37	0.00	0.37	9.70	0.71	0.00	0.71
7.15	0.37	0.00	0.37	9.75	0.73	0.00	0.73
7.20	0.38	0.00	0.38	9.80	0.74	0.00	0.74
7.25	0.38	0.00	0.38	9.85	0.76	0.00	0.76
7.30	0.38	0.00	0.38	9.90	0.77	0.00	0.77
7.35	0.39	0.00	0.39	9.95	0.79	0.00	0.79
7.40	0.39	0.00	0.39	10.00	0.80	0.00	0.80
7.45	0.40	0.00	0.40	10.05	0.82	0.00	0.82
7.50	0.40	0.00	0.40	10.10	0.83	0.00	0.83
7.55	0.40	0.00	0.40	10.15	0.85	0.00	0.85
7.60	0.41	0.00	0.41	10.20	0.86	0.00	0.86
7.65	0.41	0.00	0.41	10.25	0.88	0.00	0.88
7.70	0.42	0.00	0.42	10.30	0.89	0.00	0.89
7.75	0.42	0.00	0.42	10.35	0.90	0.00	0.90

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.92	0.00	0.92	13.00	2.00	0.00	2.00
10.45	0.93	0.00	0.93	13.05	1.89	0.00	1.89
10.50	0.95	0.00	0.95	13.10	1.78	0.00	1.78
10.55	0.99	0.00	0.99	13.15	1.69	0.00	1.69
10.60	1.03	0.00	1.03	13.20	1.62	0.00	1.62
10.65	1.08	0.00	1.08	13.25	1.55	0.00	1.55
10.70	1.13	0.00	1.13	13.30	1.49	0.00	1.49
10.75	1.19	0.00	1.19	13.35	1.43	0.00	1.43
10.80	1.24	0.00	1.24	13.40	1.37	0.00	1.37
10.85	1.30	0.00	1.30	13.45	1.31	0.00	1.31
10.90	1.35	0.00	1.35	13.50	1.25	0.00	1.25
10.95	1.41	0.00	1.41	13.55	1.19	0.00	1.19
11.00	1.47	0.00	1.47	13.60	1.13	0.00	1.13
11.05	1.55	0.00	1.55	13.65	1.09	0.00	1.09
11.10	1.64	0.00	1.64	13.70	1.06	0.00	1.06
11.15	1.74	0.00	1.74	13.75	1.04	0.00	1.04
11.20	1.84	0.00	1.84	13.80	1.02	0.00	1.02
11.25	1.95	0.00	1.95	13.85	1.00	0.00	1.00
11.30	2.05	0.00	2.05	13.90	0.99	0.00	0.99
11.35	2.16	0.00	2.16	13.95	0.97	0.00	0.97
11.40	2.27	0.00	2.27	14.00	0.95	0.00	0.95
11.45	2.37	0.00	2.37	14.05	0.94	0.00	0.94
11.50	2.46	0.00	2.46	14.10	0.92	0.00	0.92
11.55	2.86	0.00	2.86	14.15	0.91	0.00	0.91
11.60	3.40	0.00	3.40	14.20	0.89	0.00	0.89
11.65	3.73	0.00	3.73	14.25	0.88	0.00	0.88
11.70	3.96	0.00	3.96	14.30	0.86	0.00	0.86
11.75	4.48	0.00	4.48	14.35	0.84	0.00	0.84
11.80	5.12	0.00	5.12	14.40	0.83	0.00	0.83
11.85	6.01	0.00	6.01	14.45	0.81	0.00	0.81
11.90	7.02	0.00	7.02	14.50	0.80	0.00	0.80
11.95	9.02	0.00	9.02	14.55	0.78	0.00	0.78
12.00	11.47	0.00	11.47	14.60	0.77	0.00	0.77
12.05	15.12	0.00	15.12	14.65	0.75	0.00	0.75
12.10	**19.33**	0.00	**19.33**	14.70	0.73	0.00	0.73
12.15	**17.80**	0.00	**17.80**	14.75	0.72	0.00	0.72
12.20	13.34	0.00	13.34	14.80	0.70	0.00	0.70
12.25	10.44	0.00	10.44	14.85	0.69	0.00	0.69
12.30	8.34	0.00	8.34	14.90	0.67	0.00	0.67
12.35	6.79	0.00	6.79	14.95	0.66	0.00	0.66
12.40	5.59	0.00	5.59	15.00	0.64	0.00	0.64
12.45	4.95	0.00	4.95	15.05	0.62	0.00	0.62
12.50	4.56	0.00	4.56	15.10	0.61	0.00	0.61
12.55	4.01	0.00	4.01	15.15	0.60	0.00	0.60
12.60	3.38	0.00	3.38	15.20	0.59	0.00	0.59
12.65	3.02	0.00	3.02	15.25	0.58	0.00	0.58
12.70	2.79	0.00	2.79	15.30	0.58	0.00	0.58
12.75	2.61	0.00	2.61	15.35	0.58	0.00	0.58
12.80	2.47	0.00	2.47	15.40	0.57	0.00	0.57
12.85	2.35	0.00	2.35	15.45	0.57	0.00	0.57
12.90	2.23	0.00	2.23	15.50	0.56	0.00	0.56
12.95	2.12	0.00	2.12	15.55	0.56	0.00	0.56

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.56	0.00	0.56	18.20	0.34	0.00	0.34
15.65	0.55	0.00	0.55	18.25	0.34	0.00	0.34
15.70	0.55	0.00	0.55	18.30	0.34	0.00	0.34
15.75	0.54	0.00	0.54	18.35	0.34	0.00	0.34
15.80	0.54	0.00	0.54	18.40	0.34	0.00	0.34
15.85	0.53	0.00	0.53	18.45	0.34	0.00	0.34
15.90	0.53	0.00	0.53	18.50	0.33	0.00	0.33
15.95	0.53	0.00	0.53	18.55	0.33	0.00	0.33
16.00	0.52	0.00	0.52	18.60	0.33	0.00	0.33
16.05	0.52	0.00	0.52	18.65	0.33	0.00	0.33
16.10	0.51	0.00	0.51	18.70	0.33	0.00	0.33
16.15	0.51	0.00	0.51	18.75	0.33	0.00	0.33
16.20	0.51	0.00	0.51	18.80	0.33	0.00	0.33
16.25	0.50	0.00	0.50	18.85	0.33	0.00	0.33
16.30	0.50	0.00	0.50	18.90	0.33	0.00	0.33
16.35	0.49	0.00	0.49	18.95	0.32	0.00	0.32
16.40	0.49	0.00	0.49	19.00	0.32	0.00	0.32
16.45	0.48	0.00	0.48	19.05	0.32	0.00	0.32
16.50	0.48	0.00	0.48	19.10	0.32	0.00	0.32
16.55	0.48	0.00	0.48	19.15	0.32	0.00	0.32
16.60	0.47	0.00	0.47	19.20	0.32	0.00	0.32
16.65	0.47	0.00	0.47	19.25	0.32	0.00	0.32
16.70	0.46	0.00	0.46	19.30	0.32	0.00	0.32
16.75	0.46	0.00	0.46	19.35	0.32	0.00	0.32
16.80	0.45	0.00	0.45	19.40	0.32	0.00	0.32
16.85	0.45	0.00	0.45	19.45	0.31	0.00	0.31
16.90	0.45	0.00	0.45	19.50	0.31	0.00	0.31
16.95	0.44	0.00	0.44	19.55	0.31	0.00	0.31
17.00	0.44	0.00	0.44	19.60	0.31	0.00	0.31
17.05	0.43	0.00	0.43	19.65	0.31	0.00	0.31
17.10	0.43	0.00	0.43	19.70	0.31	0.00	0.31
17.15	0.43	0.00	0.43	19.75	0.31	0.00	0.31
17.20	0.42	0.00	0.42	19.80	0.31	0.00	0.31
17.25	0.42	0.00	0.42	19.85	0.31	0.00	0.31
17.30	0.41	0.00	0.41	19.90	0.31	0.00	0.31
17.35	0.41	0.00	0.41	19.95	0.30	0.00	0.30
17.40	0.40	0.00	0.40	20.00	0.30	0.00	0.30
17.45	0.40	0.00	0.40	20.05	0.30	0.00	0.30
17.50	0.40	0.00	0.40	20.10	0.30	0.00	0.30
17.55	0.39	0.00	0.39	20.15	0.30	0.00	0.30
17.60	0.39	0.00	0.39	20.20	0.30	0.00	0.30
17.65	0.38	0.00	0.38	20.25	0.30	0.00	0.30
17.70	0.38	0.00	0.38	20.30	0.30	0.00	0.30
17.75	0.38	0.00	0.38	20.35	0.30	0.00	0.30
17.80	0.37	0.00	0.37	20.40	0.29	0.00	0.29
17.85	0.37	0.00	0.37	20.45	0.29	0.00	0.29
17.90	0.36	0.00	0.36	20.50	0.29	0.00	0.29
17.95	0.36	0.00	0.36	20.55	0.29	0.00	0.29
18.00	0.35	0.00	0.35	20.60	0.29	0.00	0.29
18.05	0.35	0.00	0.35	20.65	0.29	0.00	0.29
18.10	0.35	0.00	0.35	20.70	0.29	0.00	0.29
18.15	0.34	0.00	0.34	20.75	0.29	0.00	0.29

Hydrograph for Link P1B: P1B (continued)

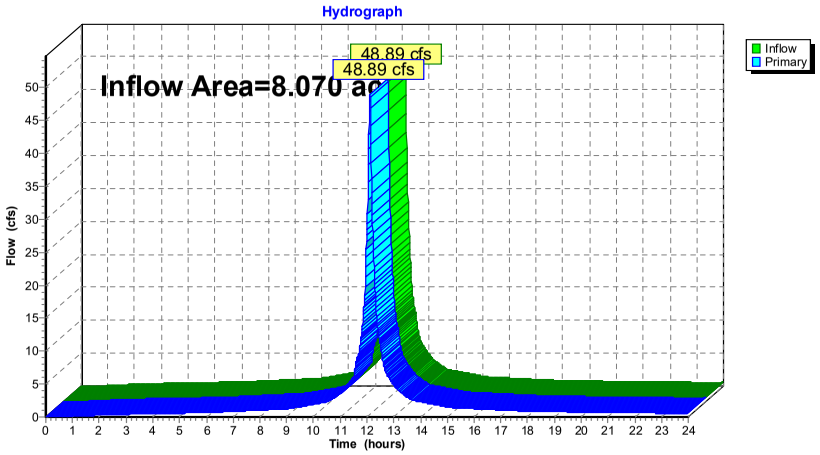
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.29	0.00	0.29	23.40	0.23	0.00	0.23
20.85	0.28	0.00	0.28	23.45	0.23	0.00	0.23
20.90	0.28	0.00	0.28	23.50	0.23	0.00	0.23
20.95	0.28	0.00	0.28	23.55	0.23	0.00	0.23
21.00	0.28	0.00	0.28	23.60	0.23	0.00	0.23
21.05	0.28	0.00	0.28	23.65	0.23	0.00	0.23
21.10	0.28	0.00	0.28	23.70	0.23	0.00	0.23
21.15	0.28	0.00	0.28	23.75	0.22	0.00	0.22
21.20	0.28	0.00	0.28	23.80	0.22	0.00	0.22
21.25	0.28	0.00	0.28	23.85	0.22	0.00	0.22
21.30	0.28	0.00	0.28	23.90	0.22	0.00	0.22
21.35	0.28	0.00	0.28	23.95	0.23	0.00	0.23
21.40	0.27	0.00	0.27	24.00	0.25	0.00	0.25
21.45	0.27	0.00	0.27				
21.50	0.27	0.00	0.27				
21.55	0.27	0.00	0.27				
21.60	0.27	0.00	0.27				
21.65	0.27	0.00	0.27				
21.70	0.27	0.00	0.27				
21.75	0.27	0.00	0.27				
21.80	0.27	0.00	0.27				
21.85	0.26	0.00	0.26				
21.90	0.26	0.00	0.26				
21.95	0.26	0.00	0.26				
22.00	0.26	0.00	0.26				
22.05	0.26	0.00	0.26				
22.10	0.26	0.00	0.26				
22.15	0.26	0.00	0.26				
22.20	0.26	0.00	0.26				
22.25	0.26	0.00	0.26				
22.30	0.25	0.00	0.25				
22.35	0.25	0.00	0.25				
22.40	0.25	0.00	0.25				
22.45	0.25	0.00	0.25				
22.50	0.25	0.00	0.25				
22.55	0.25	0.00	0.25				
22.60	0.25	0.00	0.25				
22.65	0.25	0.00	0.25				
22.70	0.25	0.00	0.25				
22.75	0.25	0.00	0.25				
22.80	0.24	0.00	0.24				
22.85	0.24	0.00	0.24				
22.90	0.24	0.00	0.24				
22.95	0.24	0.00	0.24				
23.00	0.24	0.00	0.24				
23.05	0.24	0.00	0.24				
23.10	0.24	0.00	0.24				
23.15	0.24	0.00	0.24				
23.20	0.24	0.00	0.24				
23.25	0.23	0.00	0.23				
23.30	0.23	0.00	0.23				
23.35	0.23	0.00	0.23				

Summary for Link PPOI-1: PPOI-1

Inflow Area = 8.070 ac, 81.04% Impervious, Inflow Depth > 5.80" for 25YR CURRENT event
Inflow = 48.89 cfs @ 12.11 hrs, Volume= 3.897 af
Primary = 48.89 cfs @ 12.11 hrs, Volume= 3.897 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link PPOI-1: PPOI-1



Hydrograph for Link PPOI-1: PPOI-1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.36	0.00	0.36
0.05	0.00	0.00	0.00	2.65	0.37	0.00	0.37
0.10	0.00	0.00	0.00	2.70	0.38	0.00	0.38
0.15	0.00	0.00	0.00	2.75	0.38	0.00	0.38
0.20	0.00	0.00	0.00	2.80	0.39	0.00	0.39
0.25	0.00	0.00	0.00	2.85	0.39	0.00	0.39
0.30	0.00	0.00	0.00	2.90	0.40	0.00	0.40
0.35	0.00	0.00	0.00	2.95	0.40	0.00	0.40
0.40	0.00	0.00	0.00	3.00	0.41	0.00	0.41
0.45	0.00	0.00	0.00	3.05	0.41	0.00	0.41
0.50	0.00	0.00	0.00	3.10	0.42	0.00	0.42
0.55	0.00	0.00	0.00	3.15	0.42	0.00	0.42
0.60	0.00	0.00	0.00	3.20	0.43	0.00	0.43
0.65	0.00	0.00	0.00	3.25	0.43	0.00	0.43
0.70	0.01	0.00	0.01	3.30	0.44	0.00	0.44
0.75	0.03	0.00	0.03	3.35	0.44	0.00	0.44
0.80	0.04	0.00	0.04	3.40	0.45	0.00	0.45
0.85	0.05	0.00	0.05	3.45	0.45	0.00	0.45
0.90	0.07	0.00	0.07	3.50	0.46	0.00	0.46
0.95	0.08	0.00	0.08	3.55	0.46	0.00	0.46
1.00	0.09	0.00	0.09	3.60	0.47	0.00	0.47
1.05	0.11	0.00	0.11	3.65	0.47	0.00	0.47
1.10	0.12	0.00	0.12	3.70	0.47	0.00	0.47
1.15	0.13	0.00	0.13	3.75	0.48	0.00	0.48
1.20	0.14	0.00	0.14	3.80	0.48	0.00	0.48
1.25	0.15	0.00	0.15	3.85	0.49	0.00	0.49
1.30	0.16	0.00	0.16	3.90	0.49	0.00	0.49
1.35	0.17	0.00	0.17	3.95	0.49	0.00	0.49
1.40	0.18	0.00	0.18	4.00	0.50	0.00	0.50
1.45	0.19	0.00	0.19	4.05	0.50	0.00	0.50
1.50	0.20	0.00	0.20	4.10	0.51	0.00	0.51
1.55	0.21	0.00	0.21	4.15	0.51	0.00	0.51
1.60	0.22	0.00	0.22	4.20	0.51	0.00	0.51
1.65	0.23	0.00	0.23	4.25	0.52	0.00	0.52
1.70	0.24	0.00	0.24	4.30	0.52	0.00	0.52
1.75	0.25	0.00	0.25	4.35	0.53	0.00	0.53
1.80	0.25	0.00	0.25	4.40	0.53	0.00	0.53
1.85	0.26	0.00	0.26	4.45	0.53	0.00	0.53
1.90	0.27	0.00	0.27	4.50	0.54	0.00	0.54
1.95	0.28	0.00	0.28	4.55	0.54	0.00	0.54
2.00	0.29	0.00	0.29	4.60	0.54	0.00	0.54
2.05	0.29	0.00	0.29	4.65	0.55	0.00	0.55
2.10	0.30	0.00	0.30	4.70	0.55	0.00	0.55
2.15	0.31	0.00	0.31	4.75	0.55	0.00	0.55
2.20	0.31	0.00	0.31	4.80	0.56	0.00	0.56
2.25	0.32	0.00	0.32	4.85	0.56	0.00	0.56
2.30	0.33	0.00	0.33	4.90	0.57	0.00	0.57
2.35	0.34	0.00	0.34	4.95	0.57	0.00	0.57
2.40	0.34	0.00	0.34	5.00	0.57	0.00	0.57
2.45	0.35	0.00	0.35	5.05	0.58	0.00	0.58
2.50	0.35	0.00	0.35	5.10	0.58	0.00	0.58
2.55	0.36	0.00	0.36	5.15	0.58	0.00	0.58

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.59	0.00	0.59	7.80	0.99	0.00	0.99
5.25	0.59	0.00	0.59	7.85	1.00	0.00	1.00
5.30	0.60	0.00	0.60	7.90	1.01	0.00	1.01
5.35	0.60	0.00	0.60	7.95	1.02	0.00	1.02
5.40	0.60	0.00	0.60	8.00	1.03	0.00	1.03
5.45	0.61	0.00	0.61	8.05	1.04	0.00	1.04
5.50	0.61	0.00	0.61	8.10	1.05	0.00	1.05
5.55	0.61	0.00	0.61	8.15	1.06	0.00	1.06
5.60	0.62	0.00	0.62	8.20	1.07	0.00	1.07
5.65	0.62	0.00	0.62	8.25	1.08	0.00	1.08
5.70	0.62	0.00	0.62	8.30	1.09	0.00	1.09
5.75	0.63	0.00	0.63	8.35	1.10	0.00	1.10
5.80	0.63	0.00	0.63	8.40	1.11	0.00	1.11
5.85	0.63	0.00	0.63	8.45	1.12	0.00	1.12
5.90	0.64	0.00	0.64	8.50	1.14	0.00	1.14
5.95	0.64	0.00	0.64	8.55	1.15	0.00	1.15
6.00	0.65	0.00	0.65	8.60	1.15	0.00	1.15
6.05	0.65	0.00	0.65	8.65	1.17	0.00	1.17
6.10	0.66	0.00	0.66	8.70	1.18	0.00	1.18
6.15	0.67	0.00	0.67	8.75	1.19	0.00	1.19
6.20	0.68	0.00	0.68	8.80	1.20	0.00	1.20
6.25	0.69	0.00	0.69	8.85	1.21	0.00	1.21
6.30	0.70	0.00	0.70	8.90	1.22	0.00	1.22
6.35	0.71	0.00	0.71	8.95	1.23	0.00	1.23
6.40	0.72	0.00	0.72	9.00	1.24	0.00	1.24
6.45	0.73	0.00	0.73	9.05	1.26	0.00	1.26
6.50	0.74	0.00	0.74	9.10	1.29	0.00	1.29
6.55	0.75	0.00	0.75	9.15	1.32	0.00	1.32
6.60	0.76	0.00	0.76	9.20	1.35	0.00	1.35
6.65	0.77	0.00	0.77	9.25	1.39	0.00	1.39
6.70	0.77	0.00	0.77	9.30	1.43	0.00	1.43
6.75	0.78	0.00	0.78	9.35	1.46	0.00	1.46
6.80	0.79	0.00	0.79	9.40	1.50	0.00	1.50
6.85	0.80	0.00	0.80	9.45	1.53	0.00	1.53
6.90	0.81	0.00	0.81	9.50	1.56	0.00	1.56
6.95	0.82	0.00	0.82	9.55	1.60	0.00	1.60
7.00	0.83	0.00	0.83	9.60	1.64	0.00	1.64
7.05	0.84	0.00	0.84	9.65	1.68	0.00	1.68
7.10	0.85	0.00	0.85	9.70	1.71	0.00	1.71
7.15	0.86	0.00	0.86	9.75	1.75	0.00	1.75
7.20	0.87	0.00	0.87	9.80	1.78	0.00	1.78
7.25	0.88	0.00	0.88	9.85	1.82	0.00	1.82
7.30	0.89	0.00	0.89	9.90	1.85	0.00	1.85
7.35	0.90	0.00	0.90	9.95	1.89	0.00	1.89
7.40	0.91	0.00	0.91	10.00	1.92	0.00	1.92
7.45	0.92	0.00	0.92	10.05	1.96	0.00	1.96
7.50	0.93	0.00	0.93	10.10	2.00	0.00	2.00
7.55	0.94	0.00	0.94	10.15	2.04	0.00	2.04
7.60	0.95	0.00	0.95	10.20	2.07	0.00	2.07
7.65	0.96	0.00	0.96	10.25	2.11	0.00	2.11
7.70	0.97	0.00	0.97	10.30	2.14	0.00	2.14
7.75	0.98	0.00	0.98	10.35	2.18	0.00	2.18

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	2.22	0.00	2.22	13.00	4.90	0.00	4.90
10.45	2.26	0.00	2.26	13.05	4.59	0.00	4.59
10.50	2.29	0.00	2.29	13.10	4.33	0.00	4.33
10.55	2.39	0.00	2.39	13.15	4.11	0.00	4.11
10.60	2.50	0.00	2.50	13.20	3.94	0.00	3.94
10.65	2.63	0.00	2.63	13.25	3.76	0.00	3.76
10.70	2.75	0.00	2.75	13.30	3.62	0.00	3.62
10.75	2.89	0.00	2.89	13.35	3.45	0.00	3.45
10.80	3.02	0.00	3.02	13.40	3.31	0.00	3.31
10.85	3.16	0.00	3.16	13.45	3.15	0.00	3.15
10.90	3.29	0.00	3.29	13.50	3.02	0.00	3.02
10.95	3.44	0.00	3.44	13.55	2.86	0.00	2.86
11.00	3.56	0.00	3.56	13.60	2.72	0.00	2.72
11.05	3.79	0.00	3.79	13.65	2.63	0.00	2.63
11.10	4.00	0.00	4.00	13.70	2.56	0.00	2.56
11.15	4.26	0.00	4.26	13.75	2.51	0.00	2.51
11.20	4.49	0.00	4.49	13.80	2.46	0.00	2.46
11.25	4.77	0.00	4.77	13.85	2.42	0.00	2.42
11.30	5.01	0.00	5.01	13.90	2.38	0.00	2.38
11.35	5.29	0.00	5.29	13.95	2.34	0.00	2.34
11.40	5.53	0.00	5.53	14.00	2.30	0.00	2.30
11.45	5.78	0.00	5.78	14.05	2.26	0.00	2.26
11.50	5.98	0.00	5.98	14.10	2.22	0.00	2.22
11.55	7.13	0.00	7.13	14.15	2.19	0.00	2.19
11.60	8.38	0.00	8.38	14.20	2.15	0.00	2.15
11.65	9.16	0.00	9.16	14.25	2.11	0.00	2.11
11.70	9.67	0.00	9.67	14.30	2.07	0.00	2.07
11.75	11.09	0.00	11.09	14.35	2.03	0.00	2.03
11.80	12.57	0.00	12.57	14.40	2.00	0.00	2.00
11.85	14.98	0.00	14.98	14.45	1.96	0.00	1.96
11.90	17.29	0.00	17.29	14.50	1.92	0.00	1.92
11.95	22.81	0.00	22.81	14.55	1.88	0.00	1.88
12.00	28.44	0.00	28.44	14.60	1.84	0.00	1.84
12.05	38.27	0.00	38.27	14.65	1.80	0.00	1.80
12.10	**47.84**	0.00	**47.84**	14.70	1.77	0.00	1.77
12.15	**41.29**	0.00	**41.29**	14.75	1.73	0.00	1.73
12.20	30.73	0.00	30.73	14.80	1.69	0.00	1.69
12.25	23.90	0.00	23.90	14.85	1.65	0.00	1.65
12.30	19.37	0.00	19.37	14.90	1.62	0.00	1.62
12.35	15.88	0.00	15.88	14.95	1.58	0.00	1.58
12.40	13.34	0.00	13.34	15.00	1.54	0.00	1.54
12.45	11.95	0.00	11.95	15.05	1.50	0.00	1.50
12.50	11.14	0.00	11.14	15.10	1.47	0.00	1.47
12.55	9.65	0.00	9.65	15.15	1.44	0.00	1.44
12.60	8.20	0.00	8.20	15.20	1.42	0.00	1.42
12.65	7.36	0.00	7.36	15.25	1.41	0.00	1.41
12.70	6.85	0.00	6.85	15.30	1.40	0.00	1.40
12.75	6.41	0.00	6.41	15.35	1.39	0.00	1.39
12.80	6.08	0.00	6.08	15.40	1.38	0.00	1.38
12.85	5.75	0.00	5.75	15.45	1.37	0.00	1.37
12.90	5.47	0.00	5.47	15.50	1.36	0.00	1.36
12.95	5.16	0.00	5.16	15.55	1.35	0.00	1.35

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	1.34	0.00	1.34	18.20	0.82	0.00	0.82
15.65	1.33	0.00	1.33	18.25	0.82	0.00	0.82
15.70	1.31	0.00	1.31	18.30	0.81	0.00	0.81
15.75	1.30	0.00	1.30	18.35	0.81	0.00	0.81
15.80	1.29	0.00	1.29	18.40	0.81	0.00	0.81
15.85	1.28	0.00	1.28	18.45	0.81	0.00	0.81
15.90	1.28	0.00	1.28	18.50	0.80	0.00	0.80
15.95	1.26	0.00	1.26	18.55	0.80	0.00	0.80
16.00	1.25	0.00	1.25	18.60	0.80	0.00	0.80
16.05	1.24	0.00	1.24	18.65	0.80	0.00	0.80
16.10	1.24	0.00	1.24	18.70	0.79	0.00	0.79
16.15	1.23	0.00	1.23	18.75	0.79	0.00	0.79
16.20	1.22	0.00	1.22	18.80	0.79	0.00	0.79
16.25	1.20	0.00	1.20	18.85	0.79	0.00	0.79
16.30	1.19	0.00	1.19	18.90	0.78	0.00	0.78
16.35	1.18	0.00	1.18	18.95	0.78	0.00	0.78
16.40	1.17	0.00	1.17	19.00	0.78	0.00	0.78
16.45	1.16	0.00	1.16	19.05	0.77	0.00	0.77
16.50	1.15	0.00	1.15	19.10	0.77	0.00	0.77
16.55	1.14	0.00	1.14	19.15	0.77	0.00	0.77
16.60	1.13	0.00	1.13	19.20	0.77	0.00	0.77
16.65	1.12	0.00	1.12	19.25	0.76	0.00	0.76
16.70	1.11	0.00	1.11	19.30	0.76	0.00	0.76
16.75	1.10	0.00	1.10	19.35	0.76	0.00	0.76
16.80	1.09	0.00	1.09	19.40	0.76	0.00	0.76
16.85	1.08	0.00	1.08	19.45	0.75	0.00	0.75
16.90	1.07	0.00	1.07	19.50	0.75	0.00	0.75
16.95	1.06	0.00	1.06	19.55	0.75	0.00	0.75
17.00	1.05	0.00	1.05	19.60	0.75	0.00	0.75
17.05	1.04	0.00	1.04	19.65	0.74	0.00	0.74
17.10	1.03	0.00	1.03	19.70	0.74	0.00	0.74
17.15	1.02	0.00	1.02	19.75	0.74	0.00	0.74
17.20	1.01	0.00	1.01	19.80	0.74	0.00	0.74
17.25	1.00	0.00	1.00	19.85	0.74	0.00	0.74
17.30	0.99	0.00	0.99	19.90	0.73	0.00	0.73
17.35	0.98	0.00	0.98	19.95	0.73	0.00	0.73
17.40	0.97	0.00	0.97	20.00	0.73	0.00	0.73
17.45	0.96	0.00	0.96	20.05	0.72	0.00	0.72
17.50	0.95	0.00	0.95	20.10	0.72	0.00	0.72
17.55	0.94	0.00	0.94	20.15	0.72	0.00	0.72
17.60	0.93	0.00	0.93	20.20	0.72	0.00	0.72
17.65	0.92	0.00	0.92	20.25	0.71	0.00	0.71
17.70	0.91	0.00	0.91	20.30	0.71	0.00	0.71
17.75	0.90	0.00	0.90	20.35	0.71	0.00	0.71
17.80	0.89	0.00	0.89	20.40	0.71	0.00	0.71
17.85	0.88	0.00	0.88	20.45	0.70	0.00	0.70
17.90	0.87	0.00	0.87	20.50	0.70	0.00	0.70
17.95	0.86	0.00	0.86	20.55	0.70	0.00	0.70
18.00	0.85	0.00	0.85	20.60	0.70	0.00	0.70
18.05	0.84	0.00	0.84	20.65	0.70	0.00	0.70
18.10	0.83	0.00	0.83	20.70	0.69	0.00	0.69
18.15	0.82	0.00	0.82	20.75	0.69	0.00	0.69

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.69	0.00	0.69	23.40	0.56	0.00	0.56
20.85	0.68	0.00	0.68	23.45	0.55	0.00	0.55
20.90	0.68	0.00	0.68	23.50	0.55	0.00	0.55
20.95	0.68	0.00	0.68	23.55	0.55	0.00	0.55
21.00	0.68	0.00	0.68	23.60	0.54	0.00	0.54
21.05	0.67	0.00	0.67	23.65	0.54	0.00	0.54
21.10	0.67	0.00	0.67	23.70	0.54	0.00	0.54
21.15	0.67	0.00	0.67	23.75	0.54	0.00	0.54
21.20	0.67	0.00	0.67	23.80	0.54	0.00	0.54
21.25	0.67	0.00	0.67	23.85	0.53	0.00	0.53
21.30	0.66	0.00	0.66	23.90	0.53	0.00	0.53
21.35	0.66	0.00	0.66	23.95	0.57	0.00	0.57
21.40	0.66	0.00	0.66	24.00	0.61	0.00	0.61
21.45	0.65	0.00	0.65				
21.50	0.65	0.00	0.65				
21.55	0.65	0.00	0.65				
21.60	0.65	0.00	0.65				
21.65	0.64	0.00	0.64				
21.70	0.64	0.00	0.64				
21.75	0.64	0.00	0.64				
21.80	0.64	0.00	0.64				
21.85	0.64	0.00	0.64				
21.90	0.63	0.00	0.63				
21.95	0.63	0.00	0.63				
22.00	0.63	0.00	0.63				
22.05	0.62	0.00	0.62				
22.10	0.62	0.00	0.62				
22.15	0.62	0.00	0.62				
22.20	0.62	0.00	0.62				
22.25	0.62	0.00	0.62				
22.30	0.61	0.00	0.61				
22.35	0.61	0.00	0.61				
22.40	0.61	0.00	0.61				
22.45	0.60	0.00	0.60				
22.50	0.60	0.00	0.60				
22.55	0.60	0.00	0.60				
22.60	0.60	0.00	0.60				
22.65	0.60	0.00	0.60				
22.70	0.59	0.00	0.59				
22.75	0.59	0.00	0.59				
22.80	0.59	0.00	0.59				
22.85	0.58	0.00	0.58				
22.90	0.58	0.00	0.58				
22.95	0.58	0.00	0.58				
23.00	0.58	0.00	0.58				
23.05	0.57	0.00	0.57				
23.10	0.57	0.00	0.57				
23.15	0.57	0.00	0.57				
23.20	0.56	0.00	0.56				
23.25	0.56	0.00	0.56				
23.30	0.56	0.00	0.56				
23.35	0.56	0.00	0.56				

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment PDA 4 Perv: PDA4 PERV Runoff Area=0.110 ac 0.00% Impervious Runoff Depth>7.01"
Flow Length=117' Tc=1.2 min CN=84 Runoff=1.06 cfs 0.064 af

Subcatchment PDA1AIMP: PDA1A IMP Runoff Area=1.110 ac 100.00% Impervious Runoff Depth>8.70"
Flow Length=332' Tc=2.3 min CN=98 Runoff=11.05 cfs 0.805 af

Subcatchment PDA1APERV: PDA-1APERV Runoff Area=0.270 ac 0.00% Impervious Runoff Depth>6.98"
Flow Length=518' Tc=14.3 min CN=84 Runoff=1.29 cfs 0.157 af

Subcatchment PDA1B IMP: PDA1B IMP Runoff Area=2.680 ac 93.66% Impervious Runoff Depth>8.70"
Flow Length=618' Tc=4.1 min CN=98 Runoff=23.66 cfs 1.943 af

Subcatchment PDA1B PERV: PDA-1B PERV Runoff Area=0.440 ac 0.00% Impervious Runoff Depth>3.81"
Flow Length=761' Tc=5.5 min CN=58 Runoff=1.81 cfs 0.140 af

Subcatchment PDA2 IMP: PDA2 IMP Runoff Area=0.310 ac 100.00% Impervious Runoff Depth>8.70"
Flow Length=351' Tc=2.3 min CN=98 Runoff=3.09 cfs 0.225 af

Subcatchment PDA3 IMP: PDA3 IMP Runoff Area=1.110 ac 100.00% Impervious Runoff Depth>8.70"
Flow Length=804' Tc=4.8 min CN=98 Runoff=9.34 cfs 0.804 af

Subcatchment PDA3 PERV: PDA3 PERV Runoff Area=0.540 ac 0.00% Impervious Runoff Depth>7.00"
Flow Length=131' Tc=3.6 min CN=84 Runoff=4.46 cfs 0.315 af

Subcatchment PDA4 IMP: PDA4 IMP Runoff Area=1.500 ac 100.00% Impervious Runoff Depth>8.70"
Flow Length=388' Tc=3.0 min CN=98 Runoff=14.27 cfs 1.088 af

Link P1A: P1A Inflow=11.95 cfs 0.962 af
Primary=11.95 cfs 0.962 af

Link P1B: P1B Inflow=28.34 cfs 2.307 af
Primary=28.34 cfs 2.307 af

Link PPOI-1: PPOI-1 Inflow=68.86 cfs 5.541 af
Primary=68.86 cfs 5.541 af

Total Runoff Area = 8.070 ac Runoff Volume = 5.541 af Average Runoff Depth = 8.24"
18.96% Pervious = 1.530 ac 81.04% Impervious = 6.540 ac

Summary for Subcatchment PDA 4 Perv: PDA4 PERV

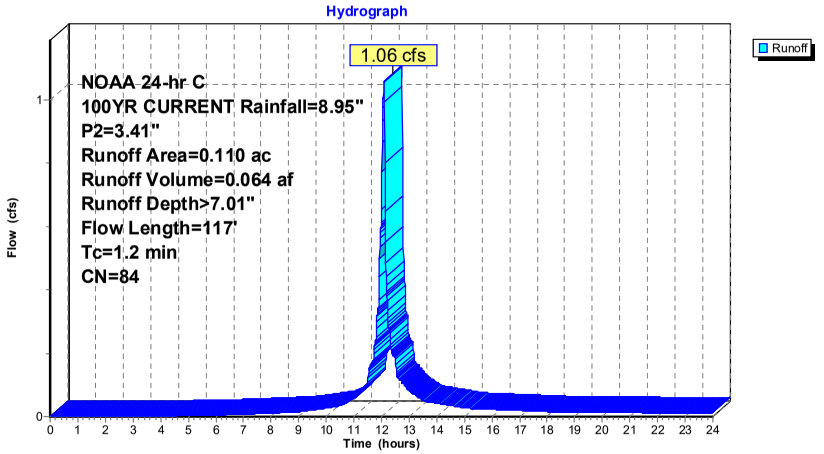
Runoff = 1.06 cfs @ 12.10 hrs, Volume= 0.064 af, Depth> 7.01"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR CURRENT Rainfall=8.95", P2=3.41"

Area (ac)	CN	Description
* 0.110	84	>75% Grass cover, Good, HSG D
0.110		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	5	0.3300	0.30		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
0.6	64	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.3	48	0.0040	2.89	3.54	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
1.2	117	Total			

Subcatchment PDA 4 Perv: PDA4 PERV



Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.27	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.28	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.28	0.00	0.00
0.15	0.02	0.00	0.00	2.75	0.29	0.00	0.00
0.20	0.02	0.00	0.00	2.80	0.29	0.00	0.00
0.25	0.03	0.00	0.00	2.85	0.30	0.00	0.00
0.30	0.03	0.00	0.00	2.90	0.30	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.31	0.00	0.00
0.40	0.04	0.00	0.00	3.00	0.32	0.00	0.00
0.45	0.04	0.00	0.00	3.05	0.32	0.00	0.00
0.50	0.05	0.00	0.00	3.10	0.33	0.00	0.00
0.55	0.05	0.00	0.00	3.15	0.33	0.00	0.00
0.60	0.06	0.00	0.00	3.20	0.34	0.00	0.00
0.65	0.06	0.00	0.00	3.25	0.35	0.00	0.00
0.70	0.07	0.00	0.00	3.30	0.35	0.00	0.00
0.75	0.07	0.00	0.00	3.35	0.36	0.00	0.00
0.80	0.08	0.00	0.00	3.40	0.36	0.00	0.00
0.85	0.08	0.00	0.00	3.45	0.37	0.00	0.00
0.90	0.09	0.00	0.00	3.50	0.38	0.00	0.00
0.95	0.09	0.00	0.00	3.55	0.38	0.00	0.00
1.00	0.10	0.00	0.00	3.60	0.39	0.00	0.00
1.05	0.10	0.00	0.00	3.65	0.39	0.00	0.00
1.10	0.11	0.00	0.00	3.70	0.40	0.00	0.00
1.15	0.11	0.00	0.00	3.75	0.41	0.00	0.00
1.20	0.12	0.00	0.00	3.80	0.41	0.00	0.00
1.25	0.12	0.00	0.00	3.85	0.42	0.00	0.00
1.30	0.13	0.00	0.00	3.90	0.43	0.00	0.00
1.35	0.13	0.00	0.00	3.95	0.43	0.00	0.00
1.40	0.14	0.00	0.00	4.00	0.44	0.00	0.00
1.45	0.14	0.00	0.00	4.05	0.44	0.00	0.00
1.50	0.15	0.00	0.00	4.10	0.45	0.00	0.00
1.55	0.15	0.00	0.00	4.15	0.46	0.00	0.00
1.60	0.16	0.00	0.00	4.20	0.46	0.00	0.00
1.65	0.16	0.00	0.00	4.25	0.47	0.00	0.00
1.70	0.17	0.00	0.00	4.30	0.48	0.00	0.00
1.75	0.18	0.00	0.00	4.35	0.48	0.01	0.00
1.80	0.18	0.00	0.00	4.40	0.49	0.01	0.00
1.85	0.19	0.00	0.00	4.45	0.50	0.01	0.00
1.90	0.19	0.00	0.00	4.50	0.50	0.01	0.00
1.95	0.20	0.00	0.00	4.55	0.51	0.01	0.00
2.00	0.20	0.00	0.00	4.60	0.52	0.01	0.00
2.05	0.21	0.00	0.00	4.65	0.52	0.01	0.00
2.10	0.21	0.00	0.00	4.70	0.53	0.01	0.00
2.15	0.22	0.00	0.00	4.75	0.54	0.01	0.00
2.20	0.22	0.00	0.00	4.80	0.54	0.01	0.00
2.25	0.23	0.00	0.00	4.85	0.55	0.01	0.00
2.30	0.24	0.00	0.00	4.90	0.56	0.01	0.00
2.35	0.24	0.00	0.00	4.95	0.56	0.02	0.00
2.40	0.25	0.00	0.00	5.00	0.57	0.02	0.00
2.45	0.25	0.00	0.00	5.05	0.58	0.02	0.00
2.50	0.26	0.00	0.00	5.10	0.58	0.02	0.00
2.55	0.26	0.00	0.00	5.15	0.59	0.02	0.00

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.60	0.02	0.00	7.80	1.03	0.16	0.01
5.25	0.60	0.02	0.00	7.85	1.04	0.17	0.01
5.30	0.61	0.02	0.00	7.90	1.05	0.17	0.01
5.35	0.62	0.03	0.00	7.95	1.06	0.18	0.01
5.40	0.62	0.03	0.00	8.00	1.07	0.18	0.01
5.45	0.63	0.03	0.00	8.05	1.08	0.19	0.01
5.50	0.64	0.03	0.00	8.10	1.09	0.19	0.01
5.55	0.65	0.03	0.00	8.15	1.11	0.20	0.01
5.60	0.65	0.03	0.00	8.20	1.12	0.20	0.01
5.65	0.66	0.04	0.00	8.25	1.13	0.21	0.01
5.70	0.67	0.04	0.00	8.30	1.14	0.22	0.01
5.75	0.67	0.04	0.00	8.35	1.15	0.22	0.01
5.80	0.68	0.04	0.00	8.40	1.16	0.23	0.01
5.85	0.69	0.04	0.00	8.45	1.17	0.23	0.01
5.90	0.69	0.04	0.00	8.50	1.19	0.24	0.01
5.95	0.70	0.05	0.00	8.55	1.20	0.24	0.01
6.00	0.71	0.05	0.00	8.60	1.21	0.25	0.01
6.05	0.72	0.05	0.00	8.65	1.22	0.26	0.01
6.10	0.72	0.05	0.00	8.70	1.23	0.26	0.01
6.15	0.73	0.05	0.00	8.75	1.25	0.27	0.01
6.20	0.74	0.06	0.00	8.80	1.26	0.28	0.01
6.25	0.75	0.06	0.01	8.85	1.27	0.28	0.01
6.30	0.75	0.06	0.01	8.90	1.28	0.29	0.01
6.35	0.76	0.06	0.01	8.95	1.29	0.30	0.02
6.40	0.77	0.07	0.01	9.00	1.31	0.30	0.02
6.45	0.78	0.07	0.01	9.05	1.32	0.31	0.02
6.50	0.79	0.07	0.01	9.10	1.33	0.32	0.02
6.55	0.79	0.07	0.01	9.15	1.35	0.33	0.02
6.60	0.80	0.08	0.01	9.20	1.36	0.33	0.02
6.65	0.81	0.08	0.01	9.25	1.38	0.34	0.02
6.70	0.82	0.08	0.01	9.30	1.39	0.35	0.02
6.75	0.83	0.09	0.01	9.35	1.41	0.36	0.02
6.80	0.84	0.09	0.01	9.40	1.42	0.37	0.02
6.85	0.85	0.09	0.01	9.45	1.44	0.38	0.02
6.90	0.85	0.09	0.01	9.50	1.45	0.39	0.02
6.95	0.86	0.10	0.01	9.55	1.47	0.40	0.02
7.00	0.87	0.10	0.01	9.60	1.49	0.41	0.02
7.05	0.88	0.10	0.01	9.65	1.50	0.42	0.02
7.10	0.89	0.11	0.01	9.70	1.52	0.43	0.02
7.15	0.90	0.11	0.01	9.75	1.54	0.44	0.02
7.20	0.91	0.12	0.01	9.80	1.56	0.45	0.02
7.25	0.92	0.12	0.01	9.85	1.57	0.46	0.03
7.30	0.93	0.12	0.01	9.90	1.59	0.47	0.03
7.35	0.94	0.13	0.01	9.95	1.61	0.48	0.03
7.40	0.95	0.13	0.01	10.00	1.63	0.50	0.03
7.45	0.96	0.13	0.01	10.05	1.65	0.51	0.03
7.50	0.97	0.14	0.01	10.10	1.67	0.52	0.03
7.55	0.98	0.14	0.01	10.15	1.69	0.53	0.03
7.60	0.99	0.15	0.01	10.20	1.71	0.55	0.03
7.65	1.00	0.15	0.01	10.25	1.73	0.56	0.03
7.70	1.01	0.16	0.01	10.30	1.76	0.58	0.03
7.75	1.02	0.16	0.01	10.35	1.78	0.59	0.03

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.80	0.61	0.03	13.00	6.80	4.95	0.08
10.45	1.82	0.62	0.03	13.05	6.84	4.99	0.08
10.50	1.84	0.64	0.03	13.10	6.87	5.02	0.07
10.55	1.87	0.65	0.04	13.15	6.91	5.05	0.07
10.60	1.89	0.67	0.04	13.20	6.94	5.08	0.07
10.65	1.92	0.69	0.04	13.25	6.97	5.11	0.06
10.70	1.95	0.71	0.04	13.30	7.00	5.14	0.06
10.75	1.98	0.73	0.05	13.35	7.03	5.17	0.06
10.80	2.01	0.75	0.05	13.40	7.06	5.19	0.06
10.85	2.04	0.78	0.05	13.45	7.08	5.22	0.05
10.90	2.08	0.80	0.05	13.50	7.11	5.24	0.05
10.95	2.11	0.82	0.06	13.55	7.13	5.26	0.05
11.00	2.15	0.85	0.06	13.60	7.15	5.28	0.05
11.05	2.19	0.88	0.06	13.65	7.17	5.30	0.05
11.10	2.23	0.91	0.07	13.70	7.19	5.32	0.05
11.15	2.27	0.94	0.07	13.75	7.22	5.35	0.05
11.20	2.32	0.98	0.08	13.80	7.24	5.37	0.04
11.25	2.37	1.01	0.08	13.85	7.26	5.39	0.04
11.30	2.42	1.05	0.08	13.90	7.28	5.40	0.04
11.35	2.47	1.10	0.09	13.95	7.30	5.42	0.04
11.40	2.53	1.14	0.09	14.00	7.32	5.44	0.04
11.45	2.59	1.18	0.10	14.05	7.34	5.46	0.04
11.50	2.64	1.23	0.10	14.10	7.36	5.48	0.04
11.55	2.74	1.30	0.15	14.15	7.38	5.50	0.04
11.60	2.83	1.37	0.16	14.20	7.39	5.51	0.04
11.65	2.92	1.45	0.17	14.25	7.41	5.53	0.04
11.70	3.02	1.53	0.17	14.30	7.43	5.55	0.04
11.75	3.15	1.64	0.23	14.35	7.45	5.57	0.04
11.80	3.28	1.75	0.24	14.40	7.46	5.58	0.04
11.85	3.46	1.90	0.33	14.45	7.48	5.60	0.04
11.90	3.64	2.06	0.34	14.50	7.50	5.61	0.04
11.95	3.95	2.33	0.56	14.55	7.51	5.63	0.03
12.00	4.27	2.61	0.61	14.60	7.53	5.64	0.03
12.05	4.79	3.08	0.97	14.65	7.54	5.66	0.03
12.10	5.31	3.56	**1.05**	14.70	7.56	5.67	0.03
12.15	5.49	3.72	0.48	14.75	7.57	5.69	0.03
12.20	5.67	3.89	0.38	14.80	7.59	5.70	0.03
12.25	5.80	4.01	0.29	14.85	7.60	5.71	0.03
12.30	5.93	4.13	0.27	14.90	7.62	5.73	0.03
12.35	6.03	4.22	0.21	14.95	7.63	5.74	0.03
12.40	6.12	4.31	0.20	15.00	7.64	5.75	0.03
12.45	6.21	4.40	0.19	15.05	7.66	5.76	0.03
12.50	6.31	4.48	0.19	15.10	7.67	5.78	0.03
12.55	6.36	4.54	0.13	15.15	7.68	5.79	0.03
12.60	6.42	4.59	0.12	15.20	7.69	5.80	0.03
12.65	6.48	4.64	0.12	15.25	7.70	5.81	0.03
12.70	6.53	4.70	0.11	15.30	7.72	5.82	0.03
12.75	6.58	4.74	0.11	15.35	7.73	5.84	0.03
12.80	6.63	4.79	0.10	15.40	7.74	5.85	0.03
12.85	6.68	4.83	0.10	15.45	7.75	5.86	0.03
12.90	6.72	4.88	0.09	15.50	7.76	5.87	0.03
12.95	6.76	4.91	0.09	15.55	7.78	5.88	0.02

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	7.79	5.89	0.02	18.20	8.27	6.35	0.02
15.65	7.80	5.90	0.02	18.25	8.28	6.36	0.02
15.70	7.81	5.91	0.02	18.30	8.28	6.37	0.02
15.75	7.82	5.92	0.02	18.35	8.29	6.37	0.02
15.80	7.83	5.94	0.02	18.40	8.30	6.38	0.02
15.85	7.84	5.95	0.02	18.45	8.30	6.39	0.02
15.90	7.86	5.96	0.02	18.50	8.31	6.40	0.02
15.95	7.87	5.97	0.02	18.55	8.32	6.40	0.01
16.00	7.88	5.98	0.02	18.60	8.33	6.41	0.01
16.05	7.89	5.99	0.02	18.65	8.33	6.42	0.01
16.10	7.90	6.00	0.02	18.70	8.34	6.42	0.01
16.15	7.91	6.01	0.02	18.75	8.35	6.43	0.01
16.20	7.92	6.02	0.02	18.80	8.35	6.44	0.01
16.25	7.93	6.03	0.02	18.85	8.36	6.44	0.01
16.30	7.94	6.04	0.02	18.90	8.37	6.45	0.01
16.35	7.95	6.05	0.02	18.95	8.37	6.45	0.01
16.40	7.96	6.06	0.02	19.00	8.38	6.46	0.01
16.45	7.97	6.07	0.02	19.05	8.39	6.47	0.01
16.50	7.98	6.08	0.02	19.10	8.39	6.47	0.01
16.55	7.99	6.09	0.02	19.15	8.40	6.48	0.01
16.60	8.00	6.10	0.02	19.20	8.41	6.49	0.01
16.65	8.01	6.11	0.02	19.25	8.41	6.49	0.01
16.70	8.02	6.12	0.02	19.30	8.42	6.50	0.01
16.75	8.03	6.12	0.02	19.35	8.43	6.51	0.01
16.80	8.04	6.13	0.02	19.40	8.43	6.51	0.01
16.85	8.05	6.14	0.02	19.45	8.44	6.52	0.01
16.90	8.06	6.15	0.02	19.50	8.45	6.53	0.01
16.95	8.07	6.16	0.02	19.55	8.45	6.53	0.01
17.00	8.08	6.17	0.02	19.60	8.46	6.54	0.01
17.05	8.09	6.18	0.02	19.65	8.47	6.54	0.01
17.10	8.10	6.19	0.02	19.70	8.47	6.55	0.01
17.15	8.10	6.19	0.02	19.75	8.48	6.56	0.01
17.20	8.11	6.20	0.02	19.80	8.49	6.56	0.01
17.25	8.12	6.21	0.02	19.85	8.49	6.57	0.01
17.30	8.13	6.22	0.02	19.90	8.50	6.58	0.01
17.35	8.14	6.23	0.02	19.95	8.51	6.58	0.01
17.40	8.15	6.24	0.02	20.00	8.51	6.59	0.01
17.45	8.16	6.24	0.02	20.05	8.52	6.59	0.01
17.50	8.16	6.25	0.02	20.10	8.52	6.60	0.01
17.55	8.17	6.26	0.02	20.15	8.53	6.61	0.01
17.60	8.18	6.27	0.02	20.20	8.54	6.61	0.01
17.65	8.19	6.28	0.02	20.25	8.54	6.62	0.01
17.70	8.20	6.28	0.02	20.30	8.55	6.62	0.01
17.75	8.20	6.29	0.02	20.35	8.56	6.63	0.01
17.80	8.21	6.30	0.02	20.40	8.56	6.64	0.01
17.85	8.22	6.31	0.02	20.45	8.57	6.64	0.01
17.90	8.23	6.31	0.02	20.50	8.57	6.65	0.01
17.95	8.23	6.32	0.02	20.55	8.58	6.65	0.01
18.00	8.24	6.33	0.02	20.60	8.59	6.66	0.01
18.05	8.25	6.33	0.02	20.65	8.59	6.67	0.01
18.10	8.26	6.34	0.02	20.70	8.60	6.67	0.01
18.15	8.26	6.35	0.02	20.75	8.60	6.68	0.01

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	8.61	6.68	0.01	23.40	8.89	6.95	0.01
20.85	8.62	6.69	0.01	23.45	8.90	6.96	0.01
20.90	8.62	6.69	0.01	23.50	8.90	6.96	0.01
20.95	8.63	6.70	0.01	23.55	8.91	6.97	0.01
21.00	8.63	6.71	0.01	23.60	8.91	6.97	0.01
21.05	8.64	6.71	0.01	23.65	8.92	6.98	0.01
21.10	8.65	6.72	0.01	23.70	8.92	6.98	0.01
21.15	8.65	6.72	0.01	23.75	8.92	6.99	0.01
21.20	8.66	6.73	0.01	23.80	8.93	6.99	0.01
21.25	8.66	6.73	0.01	23.85	8.93	7.00	0.01
21.30	8.67	6.74	0.01	23.90	8.94	7.00	0.01
21.35	8.67	6.74	0.01	23.95	8.94	7.01	0.01
21.40	8.68	6.75	0.01	24.00	**8.95**	**7.01**	0.01
21.45	8.69	6.76	0.01				
21.50	8.69	6.76	0.01				
21.55	8.70	6.77	0.01				
21.60	8.70	6.77	0.01				
21.65	8.71	6.78	0.01				
21.70	8.71	6.78	0.01				
21.75	8.72	6.79	0.01				
21.80	8.73	6.79	0.01				
21.85	8.73	6.80	0.01				
21.90	8.74	6.80	0.01				
21.95	8.74	6.81	0.01				
22.00	8.75	6.82	0.01				
22.05	8.75	6.82	0.01				
22.10	8.76	6.83	0.01				
22.15	8.76	6.83	0.01				
22.20	8.77	6.84	0.01				
22.25	8.77	6.84	0.01				
22.30	8.78	6.85	0.01				
22.35	8.79	6.85	0.01				
22.40	8.79	6.86	0.01				
22.45	8.80	6.86	0.01				
22.50	8.80	6.87	0.01				
22.55	8.81	6.87	0.01				
22.60	8.81	6.88	0.01				
22.65	8.82	6.88	0.01				
22.70	8.82	6.89	0.01				
22.75	8.83	6.89	0.01				
22.80	8.83	6.90	0.01				
22.85	8.84	6.90	0.01				
22.90	8.84	6.91	0.01				
22.95	8.85	6.91	0.01				
23.00	8.85	6.92	0.01				
23.05	8.86	6.92	0.01				
23.10	8.86	6.93	0.01				
23.15	8.87	6.93	0.01				
23.20	8.87	6.94	0.01				
23.25	8.88	6.94	0.01				
23.30	8.88	6.94	0.01				
23.35	8.89	6.95	0.01				

Summary for Subcatchment PDA1A IMP: PDA1A IMP

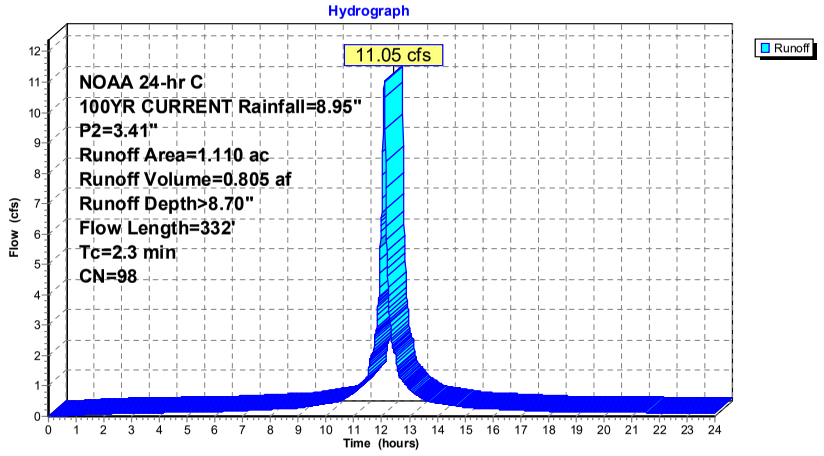
Runoff = 11.05 cfs @ 12.11 hrs, Volume= 0.805 af, Depth> 8.70"
Routed to Link P1A : P1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR CURRENT Rainfall=8.95", P2=3.41"

	Area (ac)	CN	Description
*	0.340	98	Impervious vehicular
	0.770	98	Roofs, HSG D
	1.110	98	Weighted Average
	1.110		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	100	0.0160	1.30		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.4	47	0.0100	2.03		**Shallow Concentrated Flow, paved** Paved Kv= 20.3 fps
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
2.3	332	Total			

Subcatchment PDA1A IMP: PDA1A IMP



Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.27	0.12	0.10
0.05	0.01	0.00	0.00	2.65	0.28	0.13	0.10
0.10	0.01	0.00	0.00	2.70	0.28	0.13	0.10
0.15	0.02	0.00	0.00	2.75	0.29	0.13	0.10
0.20	0.02	0.00	0.00	2.80	0.29	0.14	0.10
0.25	0.03	0.00	0.00	2.85	0.30	0.14	0.10
0.30	0.03	0.00	0.00	2.90	0.30	0.15	0.10
0.35	0.03	0.00	0.00	2.95	0.31	0.15	0.11
0.40	0.04	0.00	0.00	3.00	0.32	0.16	0.11
0.45	0.04	0.00	0.00	3.05	0.32	0.16	0.11
0.50	0.05	0.00	0.00	3.10	0.33	0.17	0.11
0.55	0.05	0.00	0.01	3.15	0.33	0.17	0.11
0.60	0.06	0.00	0.01	3.20	0.34	0.18	0.11
0.65	0.06	0.00	0.02	3.25	0.35	0.18	0.11
0.70	0.07	0.00	0.02	3.30	0.35	0.19	0.11
0.75	0.07	0.00	0.02	3.35	0.36	0.19	0.11
0.80	0.08	0.01	0.03	3.40	0.36	0.20	0.11
0.85	0.08	0.01	0.03	3.45	0.37	0.20	0.12
0.90	0.09	0.01	0.03	3.50	0.38	0.21	0.12
0.95	0.09	0.01	0.04	3.55	0.38	0.21	0.12
1.00	0.10	0.01	0.04	3.60	0.39	0.22	0.12
1.05	0.10	0.01	0.04	3.65	0.39	0.22	0.12
1.10	0.11	0.02	0.05	3.70	0.40	0.23	0.12
1.15	0.11	0.02	0.05	3.75	0.41	0.23	0.12
1.20	0.12	0.02	0.05	3.80	0.41	0.24	0.12
1.25	0.12	0.02	0.05	3.85	0.42	0.25	0.12
1.30	0.13	0.03	0.06	3.90	0.43	0.25	0.12
1.35	0.13	0.03	0.06	3.95	0.43	0.26	0.12
1.40	0.14	0.03	0.06	4.00	0.44	0.26	0.12
1.45	0.14	0.03	0.06	4.05	0.44	0.27	0.13
1.50	0.15	0.04	0.06	4.10	0.45	0.27	0.13
1.55	0.15	0.04	0.07	4.15	0.46	0.28	0.13
1.60	0.16	0.04	0.07	4.20	0.46	0.29	0.13
1.65	0.16	0.05	0.07	4.25	0.47	0.29	0.13
1.70	0.17	0.05	0.07	4.30	0.48	0.30	0.13
1.75	0.18	0.05	0.07	4.35	0.48	0.30	0.13
1.80	0.18	0.06	0.08	4.40	0.49	0.31	0.13
1.85	0.19	0.06	0.08	4.45	0.50	0.31	0.13
1.90	0.19	0.06	0.08	4.50	0.50	0.32	0.13
1.95	0.20	0.07	0.08	4.55	0.51	0.33	0.13
2.00	0.20	0.07	0.08	4.60	0.52	0.33	0.13
2.05	0.21	0.08	0.08	4.65	0.52	0.34	0.13
2.10	0.21	0.08	0.08	4.70	0.53	0.34	0.13
2.15	0.22	0.08	0.09	4.75	0.54	0.35	0.14
2.20	0.22	0.09	0.09	4.80	0.54	0.36	0.14
2.25	0.23	0.09	0.09	4.85	0.55	0.36	0.14
2.30	0.24	0.10	0.09	4.90	0.56	0.37	0.14
2.35	0.24	0.10	0.09	4.95	0.56	0.37	0.14
2.40	0.25	0.10	0.09	5.00	0.57	0.38	0.14
2.45	0.25	0.11	0.09	5.05	0.58	0.39	0.14
2.50	0.26	0.11	0.10	5.10	0.58	0.39	0.14
2.55	0.26	0.12	0.10	5.15	0.59	0.40	0.14

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.60	0.41	0.14	7.80	1.03	0.82	0.22
5.25	0.60	0.41	0.14	7.85	1.04	0.83	0.23
5.30	0.61	0.42	0.14	7.90	1.05	0.84	0.23
5.35	0.62	0.43	0.14	7.95	1.06	0.85	0.23
5.40	0.62	0.43	0.14	8.00	1.07	0.86	0.23
5.45	0.63	0.44	0.15	8.05	1.08	0.87	0.24
5.50	0.64	0.45	0.15	8.10	1.09	0.88	0.24
5.55	0.65	0.45	0.15	8.15	1.11	0.89	0.24
5.60	0.65	0.46	0.15	8.20	1.12	0.90	0.24
5.65	0.66	0.46	0.15	8.25	1.13	0.92	0.24
5.70	0.67	0.47	0.15	8.30	1.14	0.93	0.25
5.75	0.67	0.48	0.15	8.35	1.15	0.94	0.25
5.80	0.68	0.49	0.15	8.40	1.16	0.95	0.25
5.85	0.69	0.49	0.15	8.45	1.17	0.96	0.25
5.90	0.69	0.50	0.15	8.50	1.19	0.97	0.25
5.95	0.70	0.51	0.15	8.55	1.20	0.98	0.26
6.00	0.71	0.51	0.15	8.60	1.21	0.99	0.26
6.05	0.72	0.52	0.15	8.65	1.22	1.01	0.26
6.10	0.72	0.53	0.16	8.70	1.23	1.02	0.26
6.15	0.73	0.53	0.16	8.75	1.25	1.03	0.27
6.20	0.74	0.54	0.16	8.80	1.26	1.04	0.27
6.25	0.75	0.55	0.16	8.85	1.27	1.05	0.27
6.30	0.75	0.56	0.16	8.90	1.28	1.07	0.27
6.35	0.76	0.56	0.17	8.95	1.29	1.08	0.27
6.40	0.77	0.57	0.17	9.00	1.31	1.09	0.28
6.45	0.78	0.58	0.17	9.05	1.32	1.10	0.28
6.50	0.79	0.59	0.17	9.10	1.33	1.12	0.29
6.55	0.79	0.59	0.17	9.15	1.35	1.13	0.30
6.60	0.80	0.60	0.18	9.20	1.36	1.14	0.30
6.65	0.81	0.61	0.18	9.25	1.38	1.16	0.31
6.70	0.82	0.62	0.18	9.30	1.39	1.17	0.32
6.75	0.83	0.63	0.18	9.35	1.41	1.19	0.33
6.80	0.84	0.63	0.18	9.40	1.42	1.20	0.33
6.85	0.85	0.64	0.19	9.45	1.44	1.22	0.34
6.90	0.85	0.65	0.19	9.50	1.45	1.23	0.35
6.95	0.86	0.66	0.19	9.55	1.47	1.25	0.36
7.00	0.87	0.67	0.19	9.60	1.49	1.27	0.36
7.05	0.88	0.68	0.20	9.65	1.50	1.28	0.37
7.10	0.89	0.69	0.20	9.70	1.52	1.30	0.38
7.15	0.90	0.69	0.20	9.75	1.54	1.32	0.39
7.20	0.91	0.70	0.20	9.80	1.56	1.34	0.39
7.25	0.92	0.71	0.20	9.85	1.57	1.35	0.40
7.30	0.93	0.72	0.20	9.90	1.59	1.37	0.41
7.35	0.94	0.73	0.21	9.95	1.61	1.39	0.42
7.40	0.95	0.74	0.21	10.00	1.63	1.41	0.42
7.45	0.96	0.75	0.21	10.05	1.65	1.43	0.43
7.50	0.97	0.76	0.21	10.10	1.67	1.45	0.44
7.55	0.98	0.77	0.22	10.15	1.69	1.47	0.45
7.60	0.99	0.78	0.22	10.20	1.71	1.49	0.45
7.65	1.00	0.79	0.22	10.25	1.73	1.51	0.46
7.70	1.01	0.80	0.22	10.30	1.76	1.53	0.47
7.75	1.02	0.81	0.22	10.35	1.78	1.55	0.48

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.80	1.58	0.48	13.00	6.80	6.56	0.92
10.45	1.82	1.60	0.49	13.05	6.84	6.60	0.85
10.50	1.84	1.62	0.50	13.10	6.87	6.63	0.81
10.55	1.87	1.65	0.53	13.15	6.91	6.67	0.77
10.60	1.89	1.67	0.55	13.20	6.94	6.70	0.74
10.65	1.92	1.70	0.59	13.25	6.97	6.73	0.71
10.70	1.95	1.73	0.61	13.30	7.00	6.76	0.69
10.75	1.98	1.76	0.64	13.35	7.03	6.79	0.65
10.80	2.01	1.79	0.66	13.40	7.06	6.82	0.63
10.85	2.04	1.82	0.70	13.45	7.08	6.84	0.59
10.90	2.08	1.85	0.72	13.50	7.11	6.87	0.57
10.95	2.11	1.89	0.76	13.55	7.13	6.89	0.54
11.00	2.15	1.92	0.78	13.60	7.15	6.91	0.52
11.05	2.19	1.96	0.84	13.65	7.17	6.93	0.50
11.10	2.23	2.00	0.88	13.70	7.19	6.96	0.49
11.15	2.27	2.05	0.95	13.75	7.22	6.98	0.48
11.20	2.32	2.09	0.99	13.80	7.24	7.00	0.48
11.25	2.37	2.14	1.05	13.85	7.26	7.02	0.47
11.30	2.42	2.19	1.09	13.90	7.28	7.04	0.46
11.35	2.47	2.24	1.16	13.95	7.30	7.06	0.45
11.40	2.53	2.30	1.20	14.00	7.32	7.08	0.45
11.45	2.59	2.36	1.26	14.05	7.34	7.10	0.44
11.50	2.64	2.41	1.29	14.10	7.36	7.12	0.43
11.55	2.74	2.50	1.67	14.15	7.38	7.14	0.42
11.60	2.83	2.59	1.91	14.20	7.39	7.15	0.42
11.65	2.92	2.69	2.05	14.25	7.41	7.17	0.41
11.70	3.02	2.78	2.10	14.30	7.43	7.19	0.40
11.75	3.15	2.91	2.53	14.35	7.45	7.21	0.39
11.80	3.28	3.04	2.80	14.40	7.46	7.22	0.39
11.85	3.46	3.23	3.48	14.45	7.48	7.24	0.38
11.90	3.64	3.41	3.87	14.50	7.50	7.26	0.37
11.95	3.95	3.72	5.55	14.55	7.51	7.27	0.36
12.00	4.27	4.03	6.55	14.60	7.53	7.29	0.36
12.05	4.79	4.55	9.34	14.65	7.54	7.30	0.35
12.10	5.31	5.07	**10.96**	14.70	7.56	7.32	0.34
12.15	5.49	5.25	**7.50**	14.75	7.57	7.33	0.33
12.20	5.67	5.43	5.13	14.80	7.59	7.35	0.33
12.25	5.80	5.57	3.73	14.85	7.60	7.36	0.32
12.30	5.93	5.70	3.14	14.90	7.62	7.38	0.31
12.35	6.03	5.79	2.55	14.95	7.63	7.39	0.30
12.40	6.12	5.89	2.25	15.00	7.64	7.40	0.30
12.45	6.21	5.98	2.10	15.05	7.66	7.42	0.29
12.50	6.31	6.07	2.04	15.10	7.67	7.43	0.28
12.55	6.36	6.13	1.65	15.15	7.68	7.44	0.28
12.60	6.42	6.18	1.41	15.20	7.69	7.45	0.28
12.65	6.48	6.24	1.29	15.25	7.70	7.47	0.27
12.70	6.53	6.29	1.24	15.30	7.72	7.48	0.27
12.75	6.58	6.34	1.17	15.35	7.73	7.49	0.27
12.80	6.63	6.39	1.13	15.40	7.74	7.50	0.27
12.85	6.68	6.44	1.06	15.45	7.75	7.51	0.27
12.90	6.72	6.48	1.03	15.50	7.76	7.53	0.27
12.95	6.76	6.52	0.96	15.55	7.78	7.54	0.26

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	7.79	7.55	0.26	18.20	8.27	8.03	0.16
15.65	7.80	7.56	0.26	18.25	8.28	8.04	0.16
15.70	7.81	7.57	0.26	18.30	8.28	8.04	0.16
15.75	7.82	7.58	0.25	18.35	8.29	8.05	0.16
15.80	7.83	7.59	0.25	18.40	8.30	8.06	0.16
15.85	7.84	7.61	0.25	18.45	8.30	8.06	0.16
15.90	7.86	7.62	0.25	18.50	8.31	8.07	0.16
15.95	7.87	7.63	0.25	18.55	8.32	8.08	0.16
16.00	7.88	7.64	0.25	18.60	8.33	8.09	0.16
16.05	7.89	7.65	0.24	18.65	8.33	8.09	0.16
16.10	7.90	7.66	0.24	18.70	8.34	8.10	0.16
16.15	7.91	7.67	0.24	18.75	8.35	8.11	0.15
16.20	7.92	7.68	0.24	18.80	8.35	8.11	0.15
16.25	7.93	7.69	0.23	18.85	8.36	8.12	0.15
16.30	7.94	7.70	0.23	18.90	8.37	8.13	0.15
16.35	7.95	7.71	0.23	18.95	8.37	8.13	0.15
16.40	7.96	7.72	0.23	19.00	8.38	8.14	0.15
16.45	7.97	7.73	0.23	19.05	8.39	8.15	0.15
16.50	7.98	7.74	0.22	19.10	8.39	8.15	0.15
16.55	7.99	7.75	0.22	19.15	8.40	8.16	0.15
16.60	8.00	7.76	0.22	19.20	8.41	8.17	0.15
16.65	8.01	7.77	0.22	19.25	8.41	8.17	0.15
16.70	8.02	7.78	0.22	19.30	8.42	8.18	0.15
16.75	8.03	7.79	0.21	19.35	8.43	8.19	0.15
16.80	8.04	7.80	0.21	19.40	8.43	8.19	0.15
16.85	8.05	7.81	0.21	19.45	8.44	8.20	0.15
16.90	8.06	7.82	0.21	19.50	8.45	8.21	0.15
16.95	8.07	7.83	0.21	19.55	8.45	8.21	0.15
17.00	8.08	7.84	0.21	19.60	8.46	8.22	0.15
17.05	8.09	7.85	0.20	19.65	8.47	8.23	0.15
17.10	8.10	7.86	0.20	19.70	8.47	8.23	0.15
17.15	8.10	7.86	0.20	19.75	8.48	8.24	0.15
17.20	8.11	7.87	0.20	19.80	8.49	8.25	0.15
17.25	8.12	7.88	0.19	19.85	8.49	8.25	0.14
17.30	8.13	7.89	0.19	19.90	8.50	8.26	0.14
17.35	8.14	7.90	0.19	19.95	8.51	8.27	0.14
17.40	8.15	7.91	0.19	20.00	8.51	8.27	0.14
17.45	8.16	7.92	0.19	20.05	8.52	8.28	0.14
17.50	8.16	7.92	0.19	20.10	8.52	8.28	0.14
17.55	8.17	7.93	0.18	20.15	8.53	8.29	0.14
17.60	8.18	7.94	0.18	20.20	8.54	8.30	0.14
17.65	8.19	7.95	0.18	20.25	8.54	8.30	0.14
17.70	8.20	7.96	0.18	20.30	8.55	8.31	0.14
17.75	8.20	7.96	0.18	20.35	8.56	8.32	0.14
17.80	8.21	7.97	0.17	20.40	8.56	8.32	0.14
17.85	8.22	7.98	0.17	20.45	8.57	8.33	0.14
17.90	8.23	7.99	0.17	20.50	8.57	8.33	0.14
17.95	8.23	7.99	0.17	20.55	8.58	8.34	0.14
18.00	8.24	8.00	0.17	20.60	8.59	8.35	0.14
18.05	8.25	8.01	0.16	20.65	8.59	8.35	0.14
18.10	8.26	8.02	0.16	20.70	8.60	8.36	0.14
18.15	8.26	8.02	0.16	20.75	8.60	8.36	0.13

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	8.61	8.37	0.13	23.40	8.89	8.65	0.11
20.85	8.62	8.38	0.13	23.45	8.90	8.66	0.11
20.90	8.62	8.38	0.13	23.50	8.90	8.66	0.11
20.95	8.63	8.39	0.13	23.55	8.91	8.67	0.11
21.00	8.63	8.39	0.13	23.60	8.91	8.67	0.11
21.05	8.64	8.40	0.13	23.65	8.92	8.67	0.11
21.10	8.65	8.41	0.13	23.70	8.92	8.68	0.11
21.15	8.65	8.41	0.13	23.75	8.92	8.68	0.11
21.20	8.66	8.42	0.13	23.80	8.93	8.69	0.10
21.25	8.66	8.42	0.13	23.85	8.93	8.69	0.10
21.30	8.67	8.43	0.13	23.90	8.94	8.70	0.10
21.35	8.67	8.43	0.13	23.95	8.94	8.70	0.12
21.40	8.68	8.44	0.13	24.00	**8.95**	**8.71**	0.12
21.45	8.69	8.45	0.13				
21.50	8.69	8.45	0.13				
21.55	8.70	8.46	0.13				
21.60	8.70	8.46	0.13				
21.65	8.71	8.47	0.13				
21.70	8.71	8.47	0.13				
21.75	8.72	8.48	0.13				
21.80	8.73	8.49	0.13				
21.85	8.73	8.49	0.12				
21.90	8.74	8.50	0.12				
21.95	8.74	8.50	0.12				
22.00	8.75	8.51	0.12				
22.05	8.75	8.51	0.12				
22.10	8.76	8.52	0.12				
22.15	8.76	8.52	0.12				
22.20	8.77	8.53	0.12				
22.25	8.77	8.53	0.12				
22.30	8.78	8.54	0.12				
22.35	8.79	8.54	0.12				
22.40	8.79	8.55	0.12				
22.45	8.80	8.56	0.12				
22.50	8.80	8.56	0.12				
22.55	8.81	8.57	0.12				
22.60	8.81	8.57	0.12				
22.65	8.82	8.58	0.12				
22.70	8.82	8.58	0.12				
22.75	8.83	8.59	0.11				
22.80	8.83	8.59	0.11				
22.85	8.84	8.60	0.11				
22.90	8.84	8.60	0.11				
22.95	8.85	8.61	0.11				
23.00	8.85	8.61	0.11				
23.05	8.86	8.62	0.11				
23.10	8.86	8.62	0.11				
23.15	8.87	8.63	0.11				
23.20	8.87	8.63	0.11				
23.25	8.88	8.64	0.11				
23.30	8.88	8.64	0.11				
23.35	8.89	8.65	0.11				

Summary for Subcatchment PDA1A PERV: PDA-1A PERV

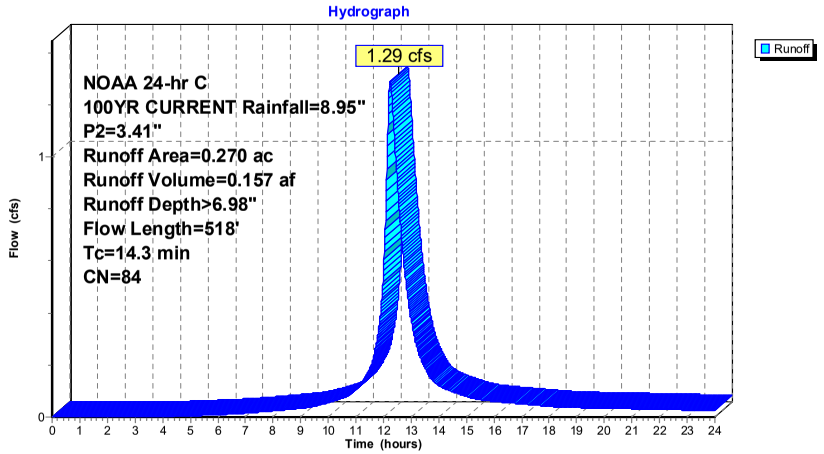
Runoff = 1.29 cfs @ 12.24 hrs, Volume= 0.157 af, Depth> 6.98"
Routed to Link P1A : P1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR CURRENT Rainfall=8.95", P2=3.41"

	Area (ac)	CN	Description
*	0.270	84	>75% Grass cover, Good, HSG D
	0.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.5	100	0.0100	0.13		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
0.1	22	0.0075	4.46	7.88	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP-2 Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
14.3	518	Total			

Subcatchment PDA1A PERV: PDA-1A PERV



Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.27	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.28	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.28	0.00	0.00
0.15	0.02	0.00	0.00	2.75	0.29	0.00	0.00
0.20	0.02	0.00	0.00	2.80	0.29	0.00	0.00
0.25	0.03	0.00	0.00	2.85	0.30	0.00	0.00
0.30	0.03	0.00	0.00	2.90	0.30	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.31	0.00	0.00
0.40	0.04	0.00	0.00	3.00	0.32	0.00	0.00
0.45	0.04	0.00	0.00	3.05	0.32	0.00	0.00
0.50	0.05	0.00	0.00	3.10	0.33	0.00	0.00
0.55	0.05	0.00	0.00	3.15	0.33	0.00	0.00
0.60	0.06	0.00	0.00	3.20	0.34	0.00	0.00
0.65	0.06	0.00	0.00	3.25	0.35	0.00	0.00
0.70	0.07	0.00	0.00	3.30	0.35	0.00	0.00
0.75	0.07	0.00	0.00	3.35	0.36	0.00	0.00
0.80	0.08	0.00	0.00	3.40	0.36	0.00	0.00
0.85	0.08	0.00	0.00	3.45	0.37	0.00	0.00
0.90	0.09	0.00	0.00	3.50	0.38	0.00	0.00
0.95	0.09	0.00	0.00	3.55	0.38	0.00	0.00
1.00	0.10	0.00	0.00	3.60	0.39	0.00	0.00
1.05	0.10	0.00	0.00	3.65	0.39	0.00	0.00
1.10	0.11	0.00	0.00	3.70	0.40	0.00	0.00
1.15	0.11	0.00	0.00	3.75	0.41	0.00	0.00
1.20	0.12	0.00	0.00	3.80	0.41	0.00	0.00
1.25	0.12	0.00	0.00	3.85	0.42	0.00	0.00
1.30	0.13	0.00	0.00	3.90	0.43	0.00	0.00
1.35	0.13	0.00	0.00	3.95	0.43	0.00	0.00
1.40	0.14	0.00	0.00	4.00	0.44	0.00	0.00
1.45	0.14	0.00	0.00	4.05	0.44	0.00	0.00
1.50	0.15	0.00	0.00	4.10	0.45	0.00	0.00
1.55	0.15	0.00	0.00	4.15	0.46	0.00	0.00
1.60	0.16	0.00	0.00	4.20	0.46	0.00	0.00
1.65	0.16	0.00	0.00	4.25	0.47	0.00	0.00
1.70	0.17	0.00	0.00	4.30	0.48	0.00	0.00
1.75	0.18	0.00	0.00	4.35	0.48	0.01	0.00
1.80	0.18	0.00	0.00	4.40	0.49	0.01	0.00
1.85	0.19	0.00	0.00	4.45	0.50	0.01	0.00
1.90	0.19	0.00	0.00	4.50	0.50	0.01	0.00
1.95	0.20	0.00	0.00	4.55	0.51	0.01	0.00
2.00	0.20	0.00	0.00	4.60	0.52	0.01	0.00
2.05	0.21	0.00	0.00	4.65	0.52	0.01	0.00
2.10	0.21	0.00	0.00	4.70	0.53	0.01	0.00
2.15	0.22	0.00	0.00	4.75	0.54	0.01	0.00
2.20	0.22	0.00	0.00	4.80	0.54	0.01	0.00
2.25	0.23	0.00	0.00	4.85	0.55	0.01	0.00
2.30	0.24	0.00	0.00	4.90	0.56	0.01	0.00
2.35	0.24	0.00	0.00	4.95	0.56	0.02	0.00
2.40	0.25	0.00	0.00	5.00	0.57	0.02	0.00
2.45	0.25	0.00	0.00	5.05	0.58	0.02	0.00
2.50	0.26	0.00	0.00	5.10	0.58	0.02	0.01
2.55	0.26	0.00	0.00	5.15	0.59	0.02	0.01

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.60	0.02	0.01	7.80	1.03	0.16	0.02
5.25	0.60	0.02	0.01	7.85	1.04	0.17	0.02
5.30	0.61	0.02	0.01	7.90	1.05	0.17	0.02
5.35	0.62	0.03	0.01	7.95	1.06	0.18	0.02
5.40	0.62	0.03	0.01	8.00	1.07	0.18	0.02
5.45	0.63	0.03	0.01	8.05	1.08	0.19	0.02
5.50	0.64	0.03	0.01	8.10	1.09	0.19	0.02
5.55	0.65	0.03	0.01	8.15	1.11	0.20	0.03
5.60	0.65	0.03	0.01	8.20	1.12	0.20	0.03
5.65	0.66	0.04	0.01	8.25	1.13	0.21	0.03
5.70	0.67	0.04	0.01	8.30	1.14	0.22	0.03
5.75	0.67	0.04	0.01	8.35	1.15	0.22	0.03
5.80	0.68	0.04	0.01	8.40	1.16	0.23	0.03
5.85	0.69	0.04	0.01	8.45	1.17	0.23	0.03
5.90	0.69	0.04	0.01	8.50	1.19	0.24	0.03
5.95	0.70	0.05	0.01	8.55	1.20	0.24	0.03
6.00	0.71	0.05	0.01	8.60	1.21	0.25	0.03
6.05	0.72	0.05	0.01	8.65	1.22	0.26	0.03
6.10	0.72	0.05	0.01	8.70	1.23	0.26	0.03
6.15	0.73	0.05	0.01	8.75	1.25	0.27	0.03
6.20	0.74	0.06	0.01	8.80	1.26	0.28	0.03
6.25	0.75	0.06	0.01	8.85	1.27	0.28	0.03
6.30	0.75	0.06	0.01	8.90	1.28	0.29	0.03
6.35	0.76	0.06	0.01	8.95	1.29	0.30	0.03
6.40	0.77	0.07	0.01	9.00	1.31	0.30	0.03
6.45	0.78	0.07	0.01	9.05	1.32	0.31	0.03
6.50	0.79	0.07	0.01	9.10	1.33	0.32	0.03
6.55	0.79	0.07	0.01	9.15	1.35	0.33	0.04
6.60	0.80	0.08	0.01	9.20	1.36	0.33	0.04
6.65	0.81	0.08	0.01	9.25	1.38	0.34	0.04
6.70	0.82	0.08	0.01	9.30	1.39	0.35	0.04
6.75	0.83	0.09	0.01	9.35	1.41	0.36	0.04
6.80	0.84	0.09	0.01	9.40	1.42	0.37	0.04
6.85	0.85	0.09	0.01	9.45	1.44	0.38	0.04
6.90	0.85	0.09	0.01	9.50	1.45	0.39	0.04
6.95	0.86	0.10	0.01	9.55	1.47	0.40	0.04
7.00	0.87	0.10	0.02	9.60	1.49	0.41	0.05
7.05	0.88	0.10	0.02	9.65	1.50	0.42	0.05
7.10	0.89	0.11	0.02	9.70	1.52	0.43	0.05
7.15	0.90	0.11	0.02	9.75	1.54	0.44	0.05
7.20	0.91	0.12	0.02	9.80	1.56	0.45	0.05
7.25	0.92	0.12	0.02	9.85	1.57	0.46	0.05
7.30	0.93	0.12	0.02	9.90	1.59	0.47	0.05
7.35	0.94	0.13	0.02	9.95	1.61	0.48	0.05
7.40	0.95	0.13	0.02	10.00	1.63	0.50	0.06
7.45	0.96	0.13	0.02	10.05	1.65	0.51	0.06
7.50	0.97	0.14	0.02	10.10	1.67	0.52	0.06
7.55	0.98	0.14	0.02	10.15	1.69	0.53	0.06
7.60	0.99	0.15	0.02	10.20	1.71	0.55	0.06
7.65	1.00	0.15	0.02	10.25	1.73	0.56	0.06
7.70	1.01	0.16	0.02	10.30	1.76	0.58	0.07
7.75	1.02	0.16	0.02	10.35	1.78	0.59	0.07

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.80	0.61	0.07	13.00	6.80	4.95	0.38
10.45	1.82	0.62	0.07	13.05	6.84	4.99	0.35
10.50	1.84	0.64	0.07	13.10	6.87	5.02	0.32
10.55	1.87	0.65	0.07	13.15	6.91	5.05	0.29
10.60	1.89	0.67	0.08	13.20	6.94	5.08	0.27
10.65	1.92	0.69	0.08	13.25	6.97	5.11	0.25
10.70	1.95	0.71	0.08	13.30	7.00	5.14	0.24
10.75	1.98	0.73	0.09	13.35	7.03	5.17	0.22
10.80	2.01	0.75	0.09	13.40	7.06	5.19	0.21
10.85	2.04	0.78	0.09	13.45	7.08	5.22	0.20
10.90	2.08	0.80	0.10	13.50	7.11	5.24	0.19
10.95	2.11	0.82	0.10	13.55	7.13	5.26	0.18
11.00	2.15	0.85	0.11	13.60	7.15	5.28	0.17
11.05	2.19	0.88	0.11	13.65	7.17	5.30	0.16
11.10	2.23	0.91	0.12	13.70	7.19	5.32	0.15
11.15	2.27	0.94	0.12	13.75	7.22	5.35	0.14
11.20	2.32	0.98	0.13	13.80	7.24	5.37	0.14
11.25	2.37	1.01	0.14	13.85	7.26	5.39	0.13
11.30	2.42	1.05	0.15	13.90	7.28	5.40	0.13
11.35	2.47	1.10	0.16	13.95	7.30	5.42	0.13
11.40	2.53	1.14	0.17	14.00	7.32	5.44	0.12
11.45	2.59	1.18	0.18	14.05	7.34	5.46	0.12
11.50	2.64	1.23	0.19	14.10	7.36	5.48	0.12
11.55	2.74	1.30	0.20	14.15	7.38	5.50	0.11
11.60	2.83	1.37	0.21	14.20	7.39	5.51	0.11
11.65	2.92	1.45	0.23	14.25	7.41	5.53	0.11
11.70	3.02	1.53	0.26	14.30	7.43	5.55	0.11
11.75	3.15	1.64	0.29	14.35	7.45	5.57	0.10
11.80	3.28	1.75	0.32	14.40	7.46	5.58	0.10
11.85	3.46	1.90	0.36	14.45	7.48	5.60	0.10
11.90	3.64	2.06	0.41	14.50	7.50	5.61	0.10
11.95	3.95	2.33	0.47	14.55	7.51	5.63	0.10
12.00	4.27	2.61	0.56	14.60	7.53	5.64	0.09
12.05	4.79	3.08	0.69	14.65	7.54	5.66	0.09
12.10	5.31	3.56	0.87	14.70	7.56	5.67	0.09
12.15	5.49	3.72	1.08	14.75	7.57	5.69	0.09
12.20	5.67	3.89	**1.25**	14.80	7.59	5.70	0.09
12.25	5.80	4.01	**1.29**	14.85	7.60	5.71	0.09
12.30	5.93	4.13	1.23	14.90	7.62	5.73	0.08
12.35	6.03	4.22	1.15	14.95	7.63	5.74	0.08
12.40	6.12	4.31	1.07	15.00	7.64	5.75	0.08
12.45	6.21	4.40	0.98	15.05	7.66	5.76	0.08
12.50	6.31	4.48	0.90	15.10	7.67	5.78	0.08
12.55	6.36	4.54	0.83	15.15	7.68	5.79	0.07
12.60	6.42	4.59	0.76	15.20	7.69	5.80	0.07
12.65	6.48	4.64	0.70	15.25	7.70	5.81	0.07
12.70	6.53	4.70	0.63	15.30	7.72	5.82	0.07
12.75	6.58	4.74	0.58	15.35	7.73	5.84	0.07
12.80	6.63	4.79	0.53	15.40	7.74	5.85	0.07
12.85	6.68	4.83	0.48	15.45	7.75	5.86	0.07
12.90	6.72	4.88	0.44	15.50	7.76	5.87	0.07
12.95	6.76	4.91	0.41	15.55	7.78	5.88	0.07

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	7.79	5.89	0.06	18.20	8.27	6.35	0.04
15.65	7.80	5.90	0.06	18.25	8.28	6.36	0.04
15.70	7.81	5.91	0.06	18.30	8.28	6.37	0.04
15.75	7.82	5.92	0.06	18.35	8.29	6.37	0.04
15.80	7.83	5.94	0.06	18.40	8.30	6.38	0.04
15.85	7.84	5.95	0.06	18.45	8.30	6.39	0.04
15.90	7.86	5.96	0.06	18.50	8.31	6.40	0.04
15.95	7.87	5.97	0.06	18.55	8.32	6.40	0.04
16.00	7.88	5.98	0.06	18.60	8.33	6.41	0.04
16.05	7.89	5.99	0.06	18.65	8.33	6.42	0.04
16.10	7.90	6.00	0.06	18.70	8.34	6.42	0.04
16.15	7.91	6.01	0.06	18.75	8.35	6.43	0.04
16.20	7.92	6.02	0.06	18.80	8.35	6.44	0.04
16.25	7.93	6.03	0.06	18.85	8.36	6.44	0.04
16.30	7.94	6.04	0.06	18.90	8.37	6.45	0.04
16.35	7.95	6.05	0.06	18.95	8.37	6.45	0.04
16.40	7.96	6.06	0.06	19.00	8.38	6.46	0.04
16.45	7.97	6.07	0.06	19.05	8.39	6.47	0.04
16.50	7.98	6.08	0.06	19.10	8.39	6.47	0.04
16.55	7.99	6.09	0.05	19.15	8.40	6.48	0.04
16.60	8.00	6.10	0.05	19.20	8.41	6.49	0.04
16.65	8.01	6.11	0.05	19.25	8.41	6.49	0.04
16.70	8.02	6.12	0.05	19.30	8.42	6.50	0.04
16.75	8.03	6.12	0.05	19.35	8.43	6.51	0.04
16.80	8.04	6.13	0.05	19.40	8.43	6.51	0.04
16.85	8.05	6.14	0.05	19.45	8.44	6.52	0.04
16.90	8.06	6.15	0.05	19.50	8.45	6.53	0.04
16.95	8.07	6.16	0.05	19.55	8.45	6.53	0.04
17.00	8.08	6.17	0.05	19.60	8.46	6.54	0.04
17.05	8.09	6.18	0.05	19.65	8.47	6.54	0.03
17.10	8.10	6.19	0.05	19.70	8.47	6.55	0.03
17.15	8.10	6.19	0.05	19.75	8.48	6.56	0.03
17.20	8.11	6.20	0.05	19.80	8.49	6.56	0.03
17.25	8.12	6.21	0.05	19.85	8.49	6.57	0.03
17.30	8.13	6.22	0.05	19.90	8.50	6.58	0.03
17.35	8.14	6.23	0.05	19.95	8.51	6.58	0.03
17.40	8.15	6.24	0.05	20.00	8.51	6.59	0.03
17.45	8.16	6.24	0.05	20.05	8.52	6.59	0.03
17.50	8.16	6.25	0.05	20.10	8.52	6.60	0.03
17.55	8.17	6.26	0.05	20.15	8.53	6.61	0.03
17.60	8.18	6.27	0.05	20.20	8.54	6.61	0.03
17.65	8.19	6.28	0.04	20.25	8.54	6.62	0.03
17.70	8.20	6.28	0.04	20.30	8.55	6.62	0.03
17.75	8.20	6.29	0.04	20.35	8.56	6.63	0.03
17.80	8.21	6.30	0.04	20.40	8.56	6.64	0.03
17.85	8.22	6.31	0.04	20.45	8.57	6.64	0.03
17.90	8.23	6.31	0.04	20.50	8.57	6.65	0.03
17.95	8.23	6.32	0.04	20.55	8.58	6.65	0.03
18.00	8.24	6.33	0.04	20.60	8.59	6.66	0.03
18.05	8.25	6.33	0.04	20.65	8.59	6.67	0.03
18.10	8.26	6.34	0.04	20.70	8.60	6.67	0.03
18.15	8.26	6.35	0.04	20.75	8.60	6.68	0.03

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	8.61	6.68	0.03	23.40	8.89	6.95	0.03
20.85	8.62	6.69	0.03	23.45	8.90	6.96	0.03
20.90	8.62	6.69	0.03	23.50	8.90	6.96	0.03
20.95	8.63	6.70	0.03	23.55	8.91	6.97	0.03
21.00	8.63	6.71	0.03	23.60	8.91	6.97	0.03
21.05	8.64	6.71	0.03	23.65	8.92	6.98	0.03
21.10	8.65	6.72	0.03	23.70	8.92	6.98	0.03
21.15	8.65	6.72	0.03	23.75	8.92	6.99	0.03
21.20	8.66	6.73	0.03	23.80	8.93	6.99	0.03
21.25	8.66	6.73	0.03	23.85	8.93	7.00	0.03
21.30	8.67	6.74	0.03	23.90	8.94	7.00	0.03
21.35	8.67	6.74	0.03	23.95	8.94	7.01	0.02
21.40	8.68	6.75	0.03	24.00	**8.95**	**7.01**	0.03
21.45	8.69	6.76	0.03				
21.50	8.69	6.76	0.03				
21.55	8.70	6.77	0.03				
21.60	8.70	6.77	0.03				
21.65	8.71	6.78	0.03				
21.70	8.71	6.78	0.03				
21.75	8.72	6.79	0.03				
21.80	8.73	6.79	0.03				
21.85	8.73	6.80	0.03				
21.90	8.74	6.80	0.03				
21.95	8.74	6.81	0.03				
22.00	8.75	6.82	0.03				
22.05	8.75	6.82	0.03				
22.10	8.76	6.83	0.03				
22.15	8.76	6.83	0.03				
22.20	8.77	6.84	0.03				
22.25	8.77	6.84	0.03				
22.30	8.78	6.85	0.03				
22.35	8.79	6.85	0.03				
22.40	8.79	6.86	0.03				
22.45	8.80	6.86	0.03				
22.50	8.80	6.87	0.03				
22.55	8.81	6.87	0.03				
22.60	8.81	6.88	0.03				
22.65	8.82	6.88	0.03				
22.70	8.82	6.89	0.03				
22.75	8.83	6.89	0.03				
22.80	8.83	6.90	0.03				
22.85	8.84	6.90	0.03				
22.90	8.84	6.91	0.03				
22.95	8.85	6.91	0.03				
23.00	8.85	6.92	0.03				
23.05	8.86	6.92	0.03				
23.10	8.86	6.93	0.03				
23.15	8.87	6.93	0.03				
23.20	8.87	6.94	0.03				
23.25	8.88	6.94	0.03				
23.30	8.88	6.94	0.03				
23.35	8.89	6.95	0.03				

Summary for Subcatchment PDA1B IMP: PDA1B IMP

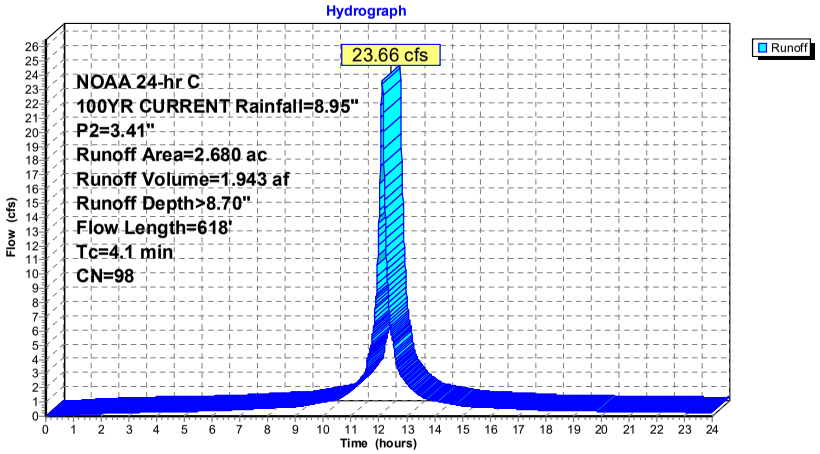
Runoff = 23.66 cfs @ 12.12 hrs, Volume= 1.943 af, Depth> 8.70"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR CURRENT Rainfall=8.95", P2=3.41"

	Area (ac)	CN	Description
	0.100	96	Gravel surface, HSG A
	0.070	96	Gravel surface, HSG D
*	0.190	98	Impervious vehicular
	2.210	98	Roofs, HSG D
*	0.110	98	Impervious non vehicular, HSG D
	2.680	98	Weighted Average
	0.170		6.34% Pervious Area
	2.510		93.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	8	0.0100	0.65		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.1	16	0.0150	1.84		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.9	93	0.0011	1.71	3.02	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
4.1	618	Total			

Subcatchment PDA1B IMP: PDA1B IMP



Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.27	0.12	0.23
0.05	0.01	0.00	0.00	2.65	0.28	0.13	0.24
0.10	0.01	0.00	0.00	2.70	0.28	0.13	0.24
0.15	0.02	0.00	0.00	2.75	0.29	0.13	0.24
0.20	0.02	0.00	0.00	2.80	0.29	0.14	0.25
0.25	0.03	0.00	0.00	2.85	0.30	0.14	0.25
0.30	0.03	0.00	0.00	2.90	0.30	0.15	0.25
0.35	0.03	0.00	0.00	2.95	0.31	0.15	0.25
0.40	0.04	0.00	0.00	3.00	0.32	0.16	0.26
0.45	0.04	0.00	0.00	3.05	0.32	0.16	0.26
0.50	0.05	0.00	0.00	3.10	0.33	0.17	0.26
0.55	0.05	0.00	0.01	3.15	0.33	0.17	0.26
0.60	0.06	0.00	0.02	3.20	0.34	0.18	0.26
0.65	0.06	0.00	0.03	3.25	0.35	0.18	0.27
0.70	0.07	0.00	0.04	3.30	0.35	0.19	0.27
0.75	0.07	0.00	0.05	3.35	0.36	0.19	0.27
0.80	0.08	0.01	0.06	3.40	0.36	0.20	0.27
0.85	0.08	0.01	0.07	3.45	0.37	0.20	0.28
0.90	0.09	0.01	0.07	3.50	0.38	0.21	0.28
0.95	0.09	0.01	0.08	3.55	0.38	0.21	0.28
1.00	0.10	0.01	0.09	3.60	0.39	0.22	0.28
1.05	0.10	0.01	0.10	3.65	0.39	0.22	0.29
1.10	0.11	0.02	0.10	3.70	0.40	0.23	0.29
1.15	0.11	0.02	0.11	3.75	0.41	0.23	0.29
1.20	0.12	0.02	0.12	3.80	0.41	0.24	0.29
1.25	0.12	0.02	0.12	3.85	0.42	0.25	0.29
1.30	0.13	0.03	0.13	3.90	0.43	0.25	0.29
1.35	0.13	0.03	0.13	3.95	0.43	0.26	0.30
1.40	0.14	0.03	0.14	4.00	0.44	0.26	0.30
1.45	0.14	0.03	0.15	4.05	0.44	0.27	0.30
1.50	0.15	0.04	0.15	4.10	0.45	0.27	0.30
1.55	0.15	0.04	0.16	4.15	0.46	0.28	0.30
1.60	0.16	0.04	0.16	4.20	0.46	0.29	0.31
1.65	0.16	0.05	0.17	4.25	0.47	0.29	0.31
1.70	0.17	0.05	0.17	4.30	0.48	0.30	0.31
1.75	0.18	0.05	0.17	4.35	0.48	0.30	0.31
1.80	0.18	0.06	0.18	4.40	0.49	0.31	0.31
1.85	0.19	0.06	0.18	4.45	0.50	0.31	0.32
1.90	0.19	0.06	0.19	4.50	0.50	0.32	0.32
1.95	0.20	0.07	0.19	4.55	0.51	0.33	0.32
2.00	0.20	0.07	0.20	4.60	0.52	0.33	0.32
2.05	0.21	0.08	0.20	4.65	0.52	0.34	0.32
2.10	0.21	0.08	0.20	4.70	0.53	0.34	0.32
2.15	0.22	0.08	0.21	4.75	0.54	0.35	0.33
2.20	0.22	0.09	0.21	4.80	0.54	0.36	0.33
2.25	0.23	0.09	0.21	4.85	0.55	0.36	0.33
2.30	0.24	0.10	0.22	4.90	0.56	0.37	0.33
2.35	0.24	0.10	0.22	4.95	0.56	0.37	0.33
2.40	0.25	0.10	0.22	5.00	0.57	0.38	0.33
2.45	0.25	0.11	0.23	5.05	0.58	0.39	0.34
2.50	0.26	0.11	0.23	5.10	0.58	0.39	0.34
2.55	0.26	0.12	0.23	5.15	0.59	0.40	0.34

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.60	0.41	0.34	7.80	1.03	0.82	0.54
5.25	0.60	0.41	0.34	7.85	1.04	0.83	0.54
5.30	0.61	0.42	0.34	7.90	1.05	0.84	0.55
5.35	0.62	0.43	0.35	7.95	1.06	0.85	0.56
5.40	0.62	0.43	0.35	8.00	1.07	0.86	0.56
5.45	0.63	0.44	0.35	8.05	1.08	0.87	0.57
5.50	0.64	0.45	0.35	8.10	1.09	0.88	0.57
5.55	0.65	0.45	0.35	8.15	1.11	0.89	0.57
5.60	0.65	0.46	0.35	8.20	1.12	0.90	0.58
5.65	0.66	0.46	0.36	8.25	1.13	0.92	0.59
5.70	0.67	0.47	0.36	8.30	1.14	0.93	0.59
5.75	0.67	0.48	0.36	8.35	1.15	0.94	0.59
5.80	0.68	0.49	0.36	8.40	1.16	0.95	0.60
5.85	0.69	0.49	0.36	8.45	1.17	0.96	0.60
5.90	0.69	0.50	0.36	8.50	1.19	0.97	0.61
5.95	0.70	0.51	0.36	8.55	1.20	0.98	0.62
6.00	0.71	0.51	0.37	8.60	1.21	0.99	0.62
6.05	0.72	0.52	0.37	8.65	1.22	1.01	0.62
6.10	0.72	0.53	0.37	8.70	1.23	1.02	0.63
6.15	0.73	0.53	0.38	8.75	1.25	1.03	0.64
6.20	0.74	0.54	0.38	8.80	1.26	1.04	0.64
6.25	0.75	0.55	0.39	8.85	1.27	1.05	0.64
6.30	0.75	0.56	0.39	8.90	1.28	1.07	0.65
6.35	0.76	0.56	0.40	8.95	1.29	1.08	0.65
6.40	0.77	0.57	0.40	9.00	1.31	1.09	0.66
6.45	0.78	0.58	0.41	9.05	1.32	1.10	0.67
6.50	0.79	0.59	0.41	9.10	1.33	1.12	0.68
6.55	0.79	0.59	0.42	9.15	1.35	1.13	0.70
6.60	0.80	0.60	0.42	9.20	1.36	1.14	0.72
6.65	0.81	0.61	0.43	9.25	1.38	1.16	0.74
6.70	0.82	0.62	0.43	9.30	1.39	1.17	0.75
6.75	0.83	0.63	0.44	9.35	1.41	1.19	0.77
6.80	0.84	0.63	0.44	9.40	1.42	1.20	0.79
6.85	0.85	0.64	0.45	9.45	1.44	1.22	0.81
6.90	0.85	0.65	0.45	9.50	1.45	1.23	0.83
6.95	0.86	0.66	0.46	9.55	1.47	1.25	0.84
7.00	0.87	0.67	0.46	9.60	1.49	1.27	0.86
7.05	0.88	0.68	0.47	9.65	1.50	1.28	0.88
7.10	0.89	0.69	0.47	9.70	1.52	1.30	0.90
7.15	0.90	0.69	0.48	9.75	1.54	1.32	0.92
7.20	0.91	0.70	0.48	9.80	1.56	1.34	0.93
7.25	0.92	0.71	0.49	9.85	1.57	1.35	0.95
7.30	0.93	0.72	0.49	9.90	1.59	1.37	0.97
7.35	0.94	0.73	0.50	9.95	1.61	1.39	0.99
7.40	0.95	0.74	0.50	10.00	1.63	1.41	1.01
7.45	0.96	0.75	0.51	10.05	1.65	1.43	1.02
7.50	0.97	0.76	0.51	10.10	1.67	1.45	1.04
7.55	0.98	0.77	0.52	10.15	1.69	1.47	1.06
7.60	0.99	0.78	0.52	10.20	1.71	1.49	1.08
7.65	1.00	0.79	0.52	10.25	1.73	1.51	1.10
7.70	1.01	0.80	0.53	10.30	1.76	1.53	1.12
7.75	1.02	0.81	0.54	10.35	1.78	1.55	1.13

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.80	1.58	1.15	13.00	6.80	6.56	2.32
10.45	1.82	1.60	1.17	13.05	6.84	6.60	2.19
10.50	1.84	1.62	1.19	13.10	6.87	6.63	2.06
10.55	1.87	1.65	1.23	13.15	6.91	6.67	1.96
10.60	1.89	1.67	1.29	13.20	6.94	6.70	1.87
10.65	1.92	1.70	1.35	13.25	6.97	6.73	1.79
10.70	1.95	1.73	1.41	13.30	7.00	6.76	1.72
10.75	1.98	1.76	1.48	13.35	7.03	6.79	1.65
10.80	2.01	1.79	1.55	13.40	7.06	6.82	1.57
10.85	2.04	1.82	1.62	13.45	7.08	6.84	1.51
10.90	2.08	1.85	1.69	13.50	7.11	6.87	1.44
10.95	2.11	1.89	1.76	13.55	7.13	6.89	1.37
11.00	2.15	1.92	1.83	13.60	7.15	6.91	1.30
11.05	2.19	1.96	1.92	13.65	7.17	6.93	1.25
11.10	2.23	2.00	2.04	13.70	7.19	6.96	1.22
11.15	2.27	2.05	2.15	13.75	7.22	6.98	1.19
11.20	2.32	2.09	2.28	13.80	7.24	7.00	1.17
11.25	2.37	2.14	2.41	13.85	7.26	7.02	1.15
11.30	2.42	2.19	2.54	13.90	7.28	7.04	1.13
11.35	2.47	2.24	2.67	13.95	7.30	7.06	1.11
11.40	2.53	2.30	2.80	14.00	7.32	7.08	1.10
11.45	2.59	2.36	2.91	14.05	7.34	7.10	1.08
11.50	2.64	2.41	3.02	14.10	7.36	7.12	1.06
11.55	2.74	2.50	3.46	14.15	7.38	7.14	1.04
11.60	2.83	2.59	4.13	14.20	7.39	7.15	1.02
11.65	2.92	2.69	4.54	14.25	7.41	7.17	1.01
11.70	3.02	2.78	4.83	14.30	7.43	7.19	0.99
11.75	3.15	2.91	5.40	14.35	7.45	7.21	0.97
11.80	3.28	3.04	6.18	14.40	7.46	7.22	0.95
11.85	3.46	3.23	7.20	14.45	7.48	7.24	0.93
11.90	3.64	3.41	8.42	14.50	7.50	7.26	0.92
11.95	3.95	3.72	10.64	14.55	7.51	7.27	0.90
12.00	4.27	4.03	13.61	14.60	7.53	7.29	0.88
12.05	4.79	4.55	17.68	14.65	7.54	7.30	0.86
12.10	5.31	5.07	**22.70**	14.70	7.56	7.32	0.84
12.15	5.49	5.25	**21.36**	14.75	7.57	7.33	0.82
12.20	5.67	5.43	16.00	14.80	7.59	7.35	0.81
12.25	5.80	5.57	12.51	14.85	7.60	7.36	0.79
12.30	5.93	5.70	9.91	14.90	7.62	7.38	0.77
12.35	6.03	5.79	8.02	14.95	7.63	7.39	0.75
12.40	6.12	5.89	6.55	15.00	7.64	7.40	0.73
12.45	6.21	5.98	5.77	15.05	7.66	7.42	0.72
12.50	6.31	6.07	5.30	15.10	7.67	7.43	0.70
12.55	6.36	6.13	4.68	15.15	7.68	7.44	0.69
12.60	6.42	6.18	3.94	15.20	7.69	7.45	0.68
12.65	6.48	6.24	3.51	15.25	7.70	7.47	0.67
12.70	6.53	6.29	3.23	15.30	7.72	7.48	0.66
12.75	6.58	6.34	3.03	15.35	7.73	7.49	0.66
12.80	6.63	6.39	2.86	15.40	7.74	7.50	0.65
12.85	6.68	6.44	2.72	15.45	7.75	7.51	0.65
12.90	6.72	6.48	2.58	15.50	7.76	7.53	0.64
12.95	6.76	6.52	2.45	15.55	7.78	7.54	0.64

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	7.79	7.55	0.64	18.20	8.27	8.03	0.39
15.65	7.80	7.56	0.63	18.25	8.28	8.04	0.39
15.70	7.81	7.57	0.62	18.30	8.28	8.04	0.39
15.75	7.82	7.58	0.62	18.35	8.29	8.05	0.38
15.80	7.83	7.59	0.61	18.40	8.30	8.06	0.38
15.85	7.84	7.61	0.61	18.45	8.30	8.06	0.38
15.90	7.86	7.62	0.61	18.50	8.31	8.07	0.38
15.95	7.87	7.63	0.60	18.55	8.32	8.08	0.38
16.00	7.88	7.64	0.60	18.60	8.33	8.09	0.38
16.05	7.89	7.65	0.59	18.65	8.33	8.09	0.38
16.10	7.90	7.66	0.59	18.70	8.34	8.10	0.38
16.15	7.91	7.67	0.58	18.75	8.35	8.11	0.37
16.20	7.92	7.68	0.58	18.80	8.35	8.11	0.37
16.25	7.93	7.69	0.57	18.85	8.36	8.12	0.37
16.30	7.94	7.70	0.57	18.90	8.37	8.13	0.37
16.35	7.95	7.71	0.56	18.95	8.37	8.13	0.37
16.40	7.96	7.72	0.56	19.00	8.38	8.14	0.37
16.45	7.97	7.73	0.55	19.05	8.39	8.15	0.37
16.50	7.98	7.74	0.55	19.10	8.39	8.15	0.37
16.55	7.99	7.75	0.54	19.15	8.40	8.16	0.37
16.60	8.00	7.76	0.54	19.20	8.41	8.17	0.36
16.65	8.01	7.77	0.53	19.25	8.41	8.17	0.36
16.70	8.02	7.78	0.53	19.30	8.42	8.18	0.36
16.75	8.03	7.79	0.52	19.35	8.43	8.19	0.36
16.80	8.04	7.80	0.52	19.40	8.43	8.19	0.36
16.85	8.05	7.81	0.51	19.45	8.44	8.20	0.36
16.90	8.06	7.82	0.51	19.50	8.45	8.21	0.36
16.95	8.07	7.83	0.51	19.55	8.45	8.21	0.36
17.00	8.08	7.84	0.50	19.60	8.46	8.22	0.35
17.05	8.09	7.85	0.50	19.65	8.47	8.23	0.35
17.10	8.10	7.86	0.49	19.70	8.47	8.23	0.35
17.15	8.10	7.86	0.49	19.75	8.48	8.24	0.35
17.20	8.11	7.87	0.48	19.80	8.49	8.25	0.35
17.25	8.12	7.88	0.48	19.85	8.49	8.25	0.35
17.30	8.13	7.89	0.47	19.90	8.50	8.26	0.35
17.35	8.14	7.90	0.47	19.95	8.51	8.27	0.35
17.40	8.15	7.91	0.46	20.00	8.51	8.27	0.34
17.45	8.16	7.92	0.46	20.05	8.52	8.28	0.34
17.50	8.16	7.92	0.45	20.10	8.52	8.28	0.34
17.55	8.17	7.93	0.45	20.15	8.53	8.29	0.34
17.60	8.18	7.94	0.44	20.20	8.54	8.30	0.34
17.65	8.19	7.95	0.44	20.25	8.54	8.30	0.34
17.70	8.20	7.96	0.43	20.30	8.55	8.31	0.34
17.75	8.20	7.96	0.43	20.35	8.56	8.32	0.34
17.80	8.21	7.97	0.42	20.40	8.56	8.32	0.33
17.85	8.22	7.98	0.42	20.45	8.57	8.33	0.33
17.90	8.23	7.99	0.41	20.50	8.57	8.33	0.33
17.95	8.23	7.99	0.41	20.55	8.58	8.34	0.33
18.00	8.24	8.00	0.40	20.60	8.59	8.35	0.33
18.05	8.25	8.01	0.40	20.65	8.59	8.35	0.33
18.10	8.26	8.02	0.39	20.70	8.60	8.36	0.33
18.15	8.26	8.02	0.39	20.75	8.60	8.36	0.33

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	8.61	8.37	0.33	23.40	8.89	8.65	0.26
20.85	8.62	8.38	0.32	23.45	8.90	8.66	0.26
20.90	8.62	8.38	0.32	23.50	8.90	8.66	0.26
20.95	8.63	8.39	0.32	23.55	8.91	8.67	0.26
21.00	8.63	8.39	0.32	23.60	8.91	8.67	0.26
21.05	8.64	8.40	0.32	23.65	8.92	8.67	0.26
21.10	8.65	8.41	0.32	23.70	8.92	8.68	0.26
21.15	8.65	8.41	0.32	23.75	8.92	8.68	0.26
21.20	8.66	8.42	0.32	23.80	8.93	8.69	0.25
21.25	8.66	8.42	0.31	23.85	8.93	8.69	0.25
21.30	8.67	8.43	0.31	23.90	8.94	8.70	0.25
21.35	8.67	8.43	0.31	23.95	8.94	8.70	0.26
21.40	8.68	8.44	0.31	24.00	**8.95**	**8.71**	0.28
21.45	8.69	8.45	0.31				
21.50	8.69	8.45	0.31				
21.55	8.70	8.46	0.31				
21.60	8.70	8.46	0.31				
21.65	8.71	8.47	0.30				
21.70	8.71	8.47	0.30				
21.75	8.72	8.48	0.30				
21.80	8.73	8.49	0.30				
21.85	8.73	8.49	0.30				
21.90	8.74	8.50	0.30				
21.95	8.74	8.50	0.30				
22.00	8.75	8.51	0.30				
22.05	8.75	8.51	0.30				
22.10	8.76	8.52	0.29				
22.15	8.76	8.52	0.29				
22.20	8.77	8.53	0.29				
22.25	8.77	8.53	0.29				
22.30	8.78	8.54	0.29				
22.35	8.79	8.54	0.29				
22.40	8.79	8.55	0.29				
22.45	8.80	8.56	0.29				
22.50	8.80	8.56	0.28				
22.55	8.81	8.57	0.28				
22.60	8.81	8.57	0.28				
22.65	8.82	8.58	0.28				
22.70	8.82	8.58	0.28				
22.75	8.83	8.59	0.28				
22.80	8.83	8.59	0.28				
22.85	8.84	8.60	0.28				
22.90	8.84	8.60	0.27				
22.95	8.85	8.61	0.27				
23.00	8.85	8.61	0.27				
23.05	8.86	8.62	0.27				
23.10	8.86	8.62	0.27				
23.15	8.87	8.63	0.27				
23.20	8.87	8.63	0.27				
23.25	8.88	8.64	0.27				
23.30	8.88	8.64	0.26				
23.35	8.89	8.65	0.26				

Summary for Subcatchment PDA1B PERV: PDA-1B PERV

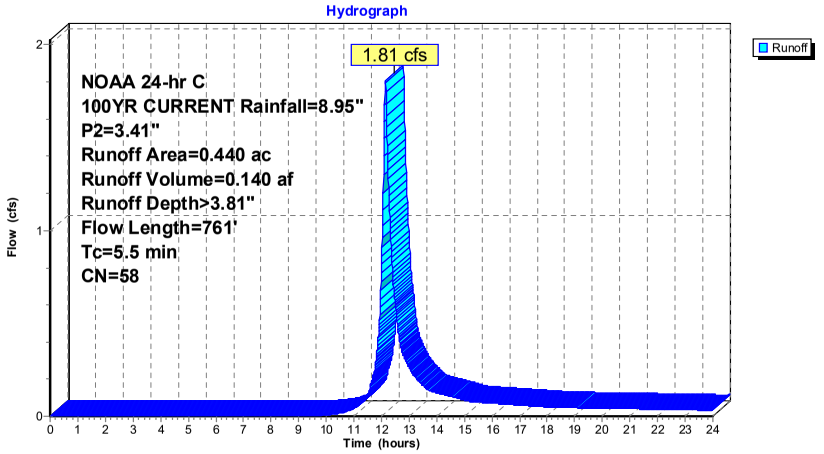
Runoff = 1.81 cfs @ 12.14 hrs, Volume= 0.140 af, Depth> 3.81"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR CURRENT Rainfall=8.95", P2=3.41"

	Area (ac)	CN	Description
	0.250	39	>75% Grass cover, Good, HSG A
*	0.190	84	>75% Grass cover, Good, HSG D
	0.440	58	Weighted Average
	0.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.5	93	0.0100	1.06		**Sheet Flow, Grass** Smooth surfaces n= 0.011 P2= 3.41"
0.8	74	0.0100	1.50		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.3	93	0.0110	5.40	9.55	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
5.5	761	Total			

Subcatchment PDA1B PERV: PDA-1B PERV



Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.27	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.28	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.28	0.00	0.00
0.15	0.02	0.00	0.00	2.75	0.29	0.00	0.00
0.20	0.02	0.00	0.00	2.80	0.29	0.00	0.00
0.25	0.03	0.00	0.00	2.85	0.30	0.00	0.00
0.30	0.03	0.00	0.00	2.90	0.30	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.31	0.00	0.00
0.40	0.04	0.00	0.00	3.00	0.32	0.00	0.00
0.45	0.04	0.00	0.00	3.05	0.32	0.00	0.00
0.50	0.05	0.00	0.00	3.10	0.33	0.00	0.00
0.55	0.05	0.00	0.00	3.15	0.33	0.00	0.00
0.60	0.06	0.00	0.00	3.20	0.34	0.00	0.00
0.65	0.06	0.00	0.00	3.25	0.35	0.00	0.00
0.70	0.07	0.00	0.00	3.30	0.35	0.00	0.00
0.75	0.07	0.00	0.00	3.35	0.36	0.00	0.00
0.80	0.08	0.00	0.00	3.40	0.36	0.00	0.00
0.85	0.08	0.00	0.00	3.45	0.37	0.00	0.00
0.90	0.09	0.00	0.00	3.50	0.38	0.00	0.00
0.95	0.09	0.00	0.00	3.55	0.38	0.00	0.00
1.00	0.10	0.00	0.00	3.60	0.39	0.00	0.00
1.05	0.10	0.00	0.00	3.65	0.39	0.00	0.00
1.10	0.11	0.00	0.00	3.70	0.40	0.00	0.00
1.15	0.11	0.00	0.00	3.75	0.41	0.00	0.00
1.20	0.12	0.00	0.00	3.80	0.41	0.00	0.00
1.25	0.12	0.00	0.00	3.85	0.42	0.00	0.00
1.30	0.13	0.00	0.00	3.90	0.43	0.00	0.00
1.35	0.13	0.00	0.00	3.95	0.43	0.00	0.00
1.40	0.14	0.00	0.00	4.00	0.44	0.00	0.00
1.45	0.14	0.00	0.00	4.05	0.44	0.00	0.00
1.50	0.15	0.00	0.00	4.10	0.45	0.00	0.00
1.55	0.15	0.00	0.00	4.15	0.46	0.00	0.00
1.60	0.16	0.00	0.00	4.20	0.46	0.00	0.00
1.65	0.16	0.00	0.00	4.25	0.47	0.00	0.00
1.70	0.17	0.00	0.00	4.30	0.48	0.00	0.00
1.75	0.18	0.00	0.00	4.35	0.48	0.00	0.00
1.80	0.18	0.00	0.00	4.40	0.49	0.00	0.00
1.85	0.19	0.00	0.00	4.45	0.50	0.00	0.00
1.90	0.19	0.00	0.00	4.50	0.50	0.00	0.00
1.95	0.20	0.00	0.00	4.55	0.51	0.00	0.00
2.00	0.20	0.00	0.00	4.60	0.52	0.00	0.00
2.05	0.21	0.00	0.00	4.65	0.52	0.00	0.00
2.10	0.21	0.00	0.00	4.70	0.53	0.00	0.00
2.15	0.22	0.00	0.00	4.75	0.54	0.00	0.00
2.20	0.22	0.00	0.00	4.80	0.54	0.00	0.00
2.25	0.23	0.00	0.00	4.85	0.55	0.00	0.00
2.30	0.24	0.00	0.00	4.90	0.56	0.00	0.00
2.35	0.24	0.00	0.00	4.95	0.56	0.00	0.00
2.40	0.25	0.00	0.00	5.00	0.57	0.00	0.00
2.45	0.25	0.00	0.00	5.05	0.58	0.00	0.00
2.50	0.26	0.00	0.00	5.10	0.58	0.00	0.00
2.55	0.26	0.00	0.00	5.15	0.59	0.00	0.00

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.60	0.00	0.00	7.80	1.03	0.00	0.00
5.25	0.60	0.00	0.00	7.85	1.04	0.00	0.00
5.30	0.61	0.00	0.00	7.90	1.05	0.00	0.00
5.35	0.62	0.00	0.00	7.95	1.06	0.00	0.00
5.40	0.62	0.00	0.00	8.00	1.07	0.00	0.00
5.45	0.63	0.00	0.00	8.05	1.08	0.00	0.00
5.50	0.64	0.00	0.00	8.10	1.09	0.00	0.00
5.55	0.65	0.00	0.00	8.15	1.11	0.00	0.00
5.60	0.65	0.00	0.00	8.20	1.12	0.00	0.00
5.65	0.66	0.00	0.00	8.25	1.13	0.00	0.00
5.70	0.67	0.00	0.00	8.30	1.14	0.00	0.00
5.75	0.67	0.00	0.00	8.35	1.15	0.00	0.00
5.80	0.68	0.00	0.00	8.40	1.16	0.00	0.00
5.85	0.69	0.00	0.00	8.45	1.17	0.00	0.00
5.90	0.69	0.00	0.00	8.50	1.19	0.00	0.00
5.95	0.70	0.00	0.00	8.55	1.20	0.00	0.00
6.00	0.71	0.00	0.00	8.60	1.21	0.00	0.00
6.05	0.72	0.00	0.00	8.65	1.22	0.00	0.00
6.10	0.72	0.00	0.00	8.70	1.23	0.00	0.00
6.15	0.73	0.00	0.00	8.75	1.25	0.00	0.00
6.20	0.74	0.00	0.00	8.80	1.26	0.00	0.00
6.25	0.75	0.00	0.00	8.85	1.27	0.00	0.00
6.30	0.75	0.00	0.00	8.90	1.28	0.00	0.00
6.35	0.76	0.00	0.00	8.95	1.29	0.00	0.00
6.40	0.77	0.00	0.00	9.00	1.31	0.00	0.00
6.45	0.78	0.00	0.00	9.05	1.32	0.00	0.00
6.50	0.79	0.00	0.00	9.10	1.33	0.00	0.00
6.55	0.79	0.00	0.00	9.15	1.35	0.00	0.00
6.60	0.80	0.00	0.00	9.20	1.36	0.00	0.00
6.65	0.81	0.00	0.00	9.25	1.38	0.00	0.00
6.70	0.82	0.00	0.00	9.30	1.39	0.00	0.00
6.75	0.83	0.00	0.00	9.35	1.41	0.00	0.00
6.80	0.84	0.00	0.00	9.40	1.42	0.00	0.00
6.85	0.85	0.00	0.00	9.45	1.44	0.00	0.00
6.90	0.85	0.00	0.00	9.50	1.45	0.00	0.00
6.95	0.86	0.00	0.00	9.55	1.47	0.00	0.00
7.00	0.87	0.00	0.00	9.60	1.49	0.00	0.00
7.05	0.88	0.00	0.00	9.65	1.50	0.00	0.00
7.10	0.89	0.00	0.00	9.70	1.52	0.00	0.00
7.15	0.90	0.00	0.00	9.75	1.54	0.00	0.00
7.20	0.91	0.00	0.00	9.80	1.56	0.00	0.00
7.25	0.92	0.00	0.00	9.85	1.57	0.00	0.00
7.30	0.93	0.00	0.00	9.90	1.59	0.00	0.00
7.35	0.94	0.00	0.00	9.95	1.61	0.00	0.00
7.40	0.95	0.00	0.00	10.00	1.63	0.00	0.01
7.45	0.96	0.00	0.00	10.05	1.65	0.01	0.01
7.50	0.97	0.00	0.00	10.10	1.67	0.01	0.01
7.55	0.98	0.00	0.00	10.15	1.69	0.01	0.01
7.60	0.99	0.00	0.00	10.20	1.71	0.01	0.01
7.65	1.00	0.00	0.00	10.25	1.73	0.01	0.01
7.70	1.01	0.00	0.00	10.30	1.76	0.01	0.01
7.75	1.02	0.00	0.00	10.35	1.78	0.01	0.01

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.80	0.02	0.01	13.00	6.80	2.28	0.26
10.45	1.82	0.02	0.02	13.05	6.84	2.30	0.25
10.50	1.84	0.02	0.02	13.10	6.87	2.32	0.24
10.55	1.87	0.02	0.02	13.15	6.91	2.35	0.22
10.60	1.89	0.03	0.02	13.20	6.94	2.37	0.21
10.65	1.92	0.03	0.02	13.25	6.97	2.39	0.21
10.70	1.95	0.03	0.02	13.30	7.00	2.41	0.20
10.75	1.98	0.04	0.03	13.35	7.03	2.43	0.19
10.80	2.01	0.04	0.03	13.40	7.06	2.45	0.18
10.85	2.04	0.05	0.03	13.45	7.08	2.46	0.17
10.90	2.08	0.05	0.04	13.50	7.11	2.48	0.17
10.95	2.11	0.06	0.04	13.55	7.13	2.50	0.16
11.00	2.15	0.06	0.04	13.60	7.15	2.51	0.15
11.05	2.19	0.07	0.05	13.65	7.17	2.53	0.15
11.10	2.23	0.08	0.05	13.70	7.19	2.54	0.14
11.15	2.27	0.08	0.06	13.75	7.22	2.56	0.14
11.20	2.32	0.09	0.07	13.80	7.24	2.57	0.13
11.25	2.37	0.10	0.07	13.85	7.26	2.59	0.13
11.30	2.42	0.11	0.08	13.90	7.28	2.60	0.13
11.35	2.47	0.13	0.09	13.95	7.30	2.61	0.13
11.40	2.53	0.14	0.10	14.00	7.32	2.63	0.13
11.45	2.59	0.15	0.11	14.05	7.34	2.64	0.12
11.50	2.64	0.17	0.11	14.10	7.36	2.65	0.12
11.55	2.74	0.19	0.13	14.15	7.38	2.67	0.12
11.60	2.83	0.22	0.16	14.20	7.39	2.68	0.12
11.65	2.92	0.25	0.19	14.25	7.41	2.69	0.12
11.70	3.02	0.28	0.22	14.30	7.43	2.71	0.11
11.75	3.15	0.32	0.25	14.35	7.45	2.72	0.11
11.80	3.28	0.37	0.30	14.40	7.46	2.73	0.11
11.85	3.46	0.44	0.36	14.45	7.48	2.74	0.11
11.90	3.64	0.51	0.46	14.50	7.50	2.75	0.11
11.95	3.95	0.64	0.59	14.55	7.51	2.76	0.11
12.00	4.27	0.79	0.82	14.60	7.53	2.78	0.10
12.05	4.79	1.05	1.11	14.65	7.54	2.79	0.10
12.10	5.31	1.34	**1.59**	14.70	7.56	2.80	0.10
12.15	5.49	1.45	**1.79**	14.75	7.57	2.81	0.10
12.20	5.67	1.56	1.51	14.80	7.59	2.82	0.09
12.25	5.80	1.64	1.28	14.85	7.60	2.83	0.09
12.30	5.93	1.72	1.07	14.90	7.62	2.84	0.09
12.35	6.03	1.77	0.92	14.95	7.63	2.85	0.09
12.40	6.12	1.83	0.77	15.00	7.64	2.86	0.09
12.45	6.21	1.89	0.67	15.05	7.66	2.86	0.08
12.50	6.31	1.95	0.60	15.10	7.67	2.87	0.08
12.55	6.36	1.99	0.55	15.15	7.68	2.88	0.08
12.60	6.42	2.03	0.47	15.20	7.69	2.89	0.08
12.65	6.48	2.06	0.41	15.25	7.70	2.90	0.08
12.70	6.53	2.10	0.37	15.30	7.72	2.91	0.08
12.75	6.58	2.13	0.35	15.35	7.73	2.92	0.08
12.80	6.63	2.16	0.32	15.40	7.74	2.93	0.08
12.85	6.68	2.19	0.31	15.45	7.75	2.93	0.08
12.90	6.72	2.22	0.29	15.50	7.76	2.94	0.08
12.95	6.76	2.25	0.28	15.55	7.78	2.95	0.08

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	7.79	2.96	0.07	18.20	8.27	3.31	0.05
15.65	7.80	2.97	0.07	18.25	8.28	3.31	0.05
15.70	7.81	2.98	0.07	18.30	8.28	3.32	0.05
15.75	7.82	2.98	0.07	18.35	8.29	3.32	0.05
15.80	7.83	2.99	0.07	18.40	8.30	3.33	0.05
15.85	7.84	3.00	0.07	18.45	8.30	3.33	0.05
15.90	7.86	3.01	0.07	18.50	8.31	3.34	0.05
15.95	7.87	3.02	0.07	18.55	8.32	3.35	0.05
16.00	7.88	3.02	0.07	18.60	8.33	3.35	0.05
16.05	7.89	3.03	0.07	18.65	8.33	3.36	0.05
16.10	7.90	3.04	0.07	18.70	8.34	3.36	0.05
16.15	7.91	3.05	0.07	18.75	8.35	3.37	0.05
16.20	7.92	3.05	0.07	18.80	8.35	3.37	0.05
16.25	7.93	3.06	0.07	18.85	8.36	3.38	0.05
16.30	7.94	3.07	0.07	18.90	8.37	3.38	0.05
16.35	7.95	3.08	0.07	18.95	8.37	3.39	0.04
16.40	7.96	3.08	0.07	19.00	8.38	3.39	0.04
16.45	7.97	3.09	0.07	19.05	8.39	3.40	0.04
16.50	7.98	3.10	0.07	19.10	8.39	3.40	0.04
16.55	7.99	3.11	0.06	19.15	8.40	3.41	0.04
16.60	8.00	3.11	0.06	19.20	8.41	3.41	0.04
16.65	8.01	3.12	0.06	19.25	8.41	3.42	0.04
16.70	8.02	3.13	0.06	19.30	8.42	3.42	0.04
16.75	8.03	3.13	0.06	19.35	8.43	3.43	0.04
16.80	8.04	3.14	0.06	19.40	8.43	3.43	0.04
16.85	8.05	3.15	0.06	19.45	8.44	3.44	0.04
16.90	8.06	3.15	0.06	19.50	8.45	3.44	0.04
16.95	8.07	3.16	0.06	19.55	8.45	3.44	0.04
17.00	8.08	3.17	0.06	19.60	8.46	3.45	0.04
17.05	8.09	3.17	0.06	19.65	8.47	3.45	0.04
17.10	8.10	3.18	0.06	19.70	8.47	3.46	0.04
17.15	8.10	3.19	0.06	19.75	8.48	3.46	0.04
17.20	8.11	3.19	0.06	19.80	8.49	3.47	0.04
17.25	8.12	3.20	0.06	19.85	8.49	3.47	0.04
17.30	8.13	3.21	0.06	19.90	8.50	3.48	0.04
17.35	8.14	3.21	0.06	19.95	8.51	3.48	0.04
17.40	8.15	3.22	0.06	20.00	8.51	3.49	0.04
17.45	8.16	3.22	0.06	20.05	8.52	3.49	0.04
17.50	8.16	3.23	0.05	20.10	8.52	3.50	0.04
17.55	8.17	3.24	0.05	20.15	8.53	3.50	0.04
17.60	8.18	3.24	0.05	20.20	8.54	3.51	0.04
17.65	8.19	3.25	0.05	20.25	8.54	3.51	0.04
17.70	8.20	3.25	0.05	20.30	8.55	3.52	0.04
17.75	8.20	3.26	0.05	20.35	8.56	3.52	0.04
17.80	8.21	3.27	0.05	20.40	8.56	3.53	0.04
17.85	8.22	3.27	0.05	20.45	8.57	3.53	0.04
17.90	8.23	3.28	0.05	20.50	8.57	3.53	0.04
17.95	8.23	3.28	0.05	20.55	8.58	3.54	0.04
18.00	8.24	3.29	0.05	20.60	8.59	3.54	0.04
18.05	8.25	3.29	0.05	20.65	8.59	3.55	0.04
18.10	8.26	3.30	0.05	20.70	8.60	3.55	0.04
18.15	8.26	3.30	0.05	20.75	8.60	3.56	0.04

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	8.61	3.56	0.04	23.40	8.89	3.77	0.03
20.85	8.62	3.57	0.04	23.45	8.90	3.78	0.03
20.90	8.62	3.57	0.04	23.50	8.90	3.78	0.03
20.95	8.63	3.57	0.04	23.55	8.91	3.78	0.03
21.00	8.63	3.58	0.04	23.60	8.91	3.79	0.03
21.05	8.64	3.58	0.04	23.65	8.92	3.79	0.03
21.10	8.65	3.59	0.04	23.70	8.92	3.79	0.03
21.15	8.65	3.59	0.04	23.75	8.92	3.80	0.03
21.20	8.66	3.60	0.04	23.80	8.93	3.80	0.03
21.25	8.66	3.60	0.04	23.85	8.93	3.80	0.03
21.30	8.67	3.61	0.04	23.90	8.94	3.81	0.03
21.35	8.67	3.61	0.04	23.95	8.94	3.81	0.03
21.40	8.68	3.61	0.04	24.00	**8.95**	**3.82**	0.03
21.45	8.69	3.62	0.04				
21.50	8.69	3.62	0.04				
21.55	8.70	3.63	0.04				
21.60	8.70	3.63	0.04				
21.65	8.71	3.64	0.04				
21.70	8.71	3.64	0.04				
21.75	8.72	3.64	0.04				
21.80	8.73	3.65	0.04				
21.85	8.73	3.65	0.04				
21.90	8.74	3.66	0.04				
21.95	8.74	3.66	0.04				
22.00	8.75	3.66	0.04				
22.05	8.75	3.67	0.04				
22.10	8.76	3.67	0.04				
22.15	8.76	3.68	0.04				
22.20	8.77	3.68	0.04				
22.25	8.77	3.68	0.04				
22.30	8.78	3.69	0.04				
22.35	8.79	3.69	0.04				
22.40	8.79	3.70	0.04				
22.45	8.80	3.70	0.04				
22.50	8.80	3.70	0.04				
22.55	8.81	3.71	0.04				
22.60	8.81	3.71	0.04				
22.65	8.82	3.72	0.04				
22.70	8.82	3.72	0.03				
22.75	8.83	3.72	0.03				
22.80	8.83	3.73	0.03				
22.85	8.84	3.73	0.03				
22.90	8.84	3.74	0.03				
22.95	8.85	3.74	0.03				
23.00	8.85	3.74	0.03				
23.05	8.86	3.75	0.03				
23.10	8.86	3.75	0.03				
23.15	8.87	3.75	0.03				
23.20	8.87	3.76	0.03				
23.25	8.88	3.76	0.03				
23.30	8.88	3.77	0.03				
23.35	8.89	3.77	0.03				

Summary for Subcatchment PDA2 IMP: PDA2 IMP

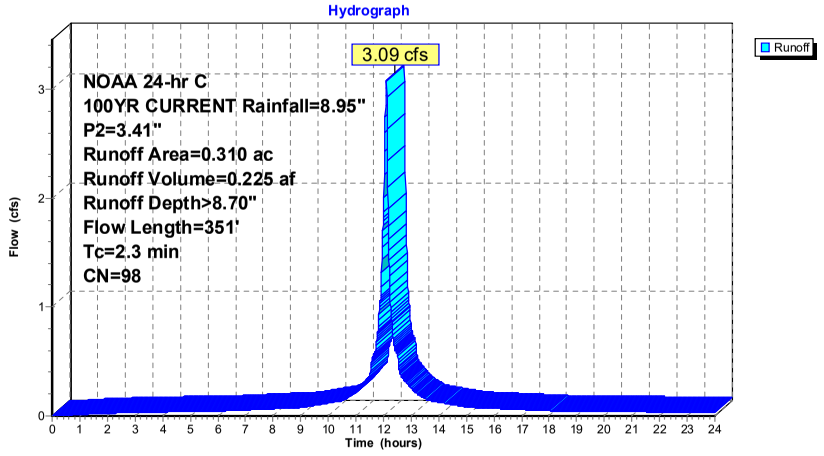
Runoff = 3.09 cfs @ 12.11 hrs, Volume= 0.225 af, Depth> 8.70"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR CURRENT Rainfall=8.95", P2=3.41"

	Area (ac)	CN	Description
*	0.310	98	Impervious vehicular
	0.310		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0180	1.36		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
1.1	251	0.0360	3.85		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
2.3	351	Total			

Subcatchment PDA2 IMP: PDA2 IMP



Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.27	0.12	0.03
0.05	0.01	0.00	0.00	2.65	0.28	0.13	0.03
0.10	0.01	0.00	0.00	2.70	0.28	0.13	0.03
0.15	0.02	0.00	0.00	2.75	0.29	0.13	0.03
0.20	0.02	0.00	0.00	2.80	0.29	0.14	0.03
0.25	0.03	0.00	0.00	2.85	0.30	0.14	0.03
0.30	0.03	0.00	0.00	2.90	0.30	0.15	0.03
0.35	0.03	0.00	0.00	2.95	0.31	0.15	0.03
0.40	0.04	0.00	0.00	3.00	0.32	0.16	0.03
0.45	0.04	0.00	0.00	3.05	0.32	0.16	0.03
0.50	0.05	0.00	0.00	3.10	0.33	0.17	0.03
0.55	0.05	0.00	0.00	3.15	0.33	0.17	0.03
0.60	0.06	0.00	0.00	3.20	0.34	0.18	0.03
0.65	0.06	0.00	0.00	3.25	0.35	0.18	0.03
0.70	0.07	0.00	0.01	3.30	0.35	0.19	0.03
0.75	0.07	0.00	0.01	3.35	0.36	0.19	0.03
0.80	0.08	0.01	0.01	3.40	0.36	0.20	0.03
0.85	0.08	0.01	0.01	3.45	0.37	0.20	0.03
0.90	0.09	0.01	0.01	3.50	0.38	0.21	0.03
0.95	0.09	0.01	0.01	3.55	0.38	0.21	0.03
1.00	0.10	0.01	0.01	3.60	0.39	0.22	0.03
1.05	0.10	0.01	0.01	3.65	0.39	0.22	0.03
1.10	0.11	0.02	0.01	3.70	0.40	0.23	0.03
1.15	0.11	0.02	0.01	3.75	0.41	0.23	0.03
1.20	0.12	0.02	0.01	3.80	0.41	0.24	0.03
1.25	0.12	0.02	0.01	3.85	0.42	0.25	0.03
1.30	0.13	0.03	0.02	3.90	0.43	0.25	0.03
1.35	0.13	0.03	0.02	3.95	0.43	0.26	0.03
1.40	0.14	0.03	0.02	4.00	0.44	0.26	0.03
1.45	0.14	0.03	0.02	4.05	0.44	0.27	0.04
1.50	0.15	0.04	0.02	4.10	0.45	0.27	0.04
1.55	0.15	0.04	0.02	4.15	0.46	0.28	0.04
1.60	0.16	0.04	0.02	4.20	0.46	0.29	0.04
1.65	0.16	0.05	0.02	4.25	0.47	0.29	0.04
1.70	0.17	0.05	0.02	4.30	0.48	0.30	0.04
1.75	0.18	0.05	0.02	4.35	0.48	0.30	0.04
1.80	0.18	0.06	0.02	4.40	0.49	0.31	0.04
1.85	0.19	0.06	0.02	4.45	0.50	0.31	0.04
1.90	0.19	0.06	0.02	4.50	0.50	0.32	0.04
1.95	0.20	0.07	0.02	4.55	0.51	0.33	0.04
2.00	0.20	0.07	0.02	4.60	0.52	0.33	0.04
2.05	0.21	0.08	0.02	4.65	0.52	0.34	0.04
2.10	0.21	0.08	0.02	4.70	0.53	0.34	0.04
2.15	0.22	0.08	0.02	4.75	0.54	0.35	0.04
2.20	0.22	0.09	0.02	4.80	0.54	0.36	0.04
2.25	0.23	0.09	0.03	4.85	0.55	0.36	0.04
2.30	0.24	0.10	0.03	4.90	0.56	0.37	0.04
2.35	0.24	0.10	0.03	4.95	0.56	0.37	0.04
2.40	0.25	0.10	0.03	5.00	0.57	0.38	0.04
2.45	0.25	0.11	0.03	5.05	0.58	0.39	0.04
2.50	0.26	0.11	0.03	5.10	0.58	0.39	0.04
2.55	0.26	0.12	0.03	5.15	0.59	0.40	0.04

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.60	0.41	0.04	7.80	1.03	0.82	0.06
5.25	0.60	0.41	0.04	7.85	1.04	0.83	0.06
5.30	0.61	0.42	0.04	7.90	1.05	0.84	0.06
5.35	0.62	0.43	0.04	7.95	1.06	0.85	0.06
5.40	0.62	0.43	0.04	8.00	1.07	0.86	0.07
5.45	0.63	0.44	0.04	8.05	1.08	0.87	0.07
5.50	0.64	0.45	0.04	8.10	1.09	0.88	0.07
5.55	0.65	0.45	0.04	8.15	1.11	0.89	0.07
5.60	0.65	0.46	0.04	8.20	1.12	0.90	0.07
5.65	0.66	0.46	0.04	8.25	1.13	0.92	0.07
5.70	0.67	0.47	0.04	8.30	1.14	0.93	0.07
5.75	0.67	0.48	0.04	8.35	1.15	0.94	0.07
5.80	0.68	0.49	0.04	8.40	1.16	0.95	0.07
5.85	0.69	0.49	0.04	8.45	1.17	0.96	0.07
5.90	0.69	0.50	0.04	8.50	1.19	0.97	0.07
5.95	0.70	0.51	0.04	8.55	1.20	0.98	0.07
6.00	0.71	0.51	0.04	8.60	1.21	0.99	0.07
6.05	0.72	0.52	0.04	8.65	1.22	1.01	0.07
6.10	0.72	0.53	0.04	8.70	1.23	1.02	0.07
6.15	0.73	0.53	0.04	8.75	1.25	1.03	0.07
6.20	0.74	0.54	0.04	8.80	1.26	1.04	0.07
6.25	0.75	0.55	0.05	8.85	1.27	1.05	0.08
6.30	0.75	0.56	0.05	8.90	1.28	1.07	0.08
6.35	0.76	0.56	0.05	8.95	1.29	1.08	0.08
6.40	0.77	0.57	0.05	9.00	1.31	1.09	0.08
6.45	0.78	0.58	0.05	9.05	1.32	1.10	0.08
6.50	0.79	0.59	0.05	9.10	1.33	1.12	0.08
6.55	0.79	0.59	0.05	9.15	1.35	1.13	0.08
6.60	0.80	0.60	0.05	9.20	1.36	1.14	0.08
6.65	0.81	0.61	0.05	9.25	1.38	1.16	0.09
6.70	0.82	0.62	0.05	9.30	1.39	1.17	0.09
6.75	0.83	0.63	0.05	9.35	1.41	1.19	0.09
6.80	0.84	0.63	0.05	9.40	1.42	1.20	0.09
6.85	0.85	0.64	0.05	9.45	1.44	1.22	0.10
6.90	0.85	0.65	0.05	9.50	1.45	1.23	0.10
6.95	0.86	0.66	0.05	9.55	1.47	1.25	0.10
7.00	0.87	0.67	0.05	9.60	1.49	1.27	0.10
7.05	0.88	0.68	0.05	9.65	1.50	1.28	0.10
7.10	0.89	0.69	0.05	9.70	1.52	1.30	0.11
7.15	0.90	0.69	0.06	9.75	1.54	1.32	0.11
7.20	0.91	0.70	0.06	9.80	1.56	1.34	0.11
7.25	0.92	0.71	0.06	9.85	1.57	1.35	0.11
7.30	0.93	0.72	0.06	9.90	1.59	1.37	0.11
7.35	0.94	0.73	0.06	9.95	1.61	1.39	0.12
7.40	0.95	0.74	0.06	10.00	1.63	1.41	0.12
7.45	0.96	0.75	0.06	10.05	1.65	1.43	0.12
7.50	0.97	0.76	0.06	10.10	1.67	1.45	0.12
7.55	0.98	0.77	0.06	10.15	1.69	1.47	0.13
7.60	0.99	0.78	0.06	10.20	1.71	1.49	0.13
7.65	1.00	0.79	0.06	10.25	1.73	1.51	0.13
7.70	1.01	0.80	0.06	10.30	1.76	1.53	0.13
7.75	1.02	0.81	0.06	10.35	1.78	1.55	0.13

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.80	1.58	0.13	13.00	6.80	6.56	0.26
10.45	1.82	1.60	0.14	13.05	6.84	6.60	0.24
10.50	1.84	1.62	0.14	13.10	6.87	6.63	0.23
10.55	1.87	1.65	0.15	13.15	6.91	6.67	0.21
10.60	1.89	1.67	0.15	13.20	6.94	6.70	0.21
10.65	1.92	1.70	0.16	13.25	6.97	6.73	0.20
10.70	1.95	1.73	0.17	13.30	7.00	6.76	0.19
10.75	1.98	1.76	0.18	13.35	7.03	6.79	0.18
10.80	2.01	1.79	0.19	13.40	7.06	6.82	0.18
10.85	2.04	1.82	0.20	13.45	7.08	6.84	0.17
10.90	2.08	1.85	0.20	13.50	7.11	6.87	0.16
10.95	2.11	1.89	0.21	13.55	7.13	6.89	0.15
11.00	2.15	1.92	0.22	13.60	7.15	6.91	0.14
11.05	2.19	1.96	0.24	13.65	7.17	6.93	0.14
11.10	2.23	2.00	0.25	13.70	7.19	6.96	0.14
11.15	2.27	2.05	0.26	13.75	7.22	6.98	0.13
11.20	2.32	2.09	0.28	13.80	7.24	7.00	0.13
11.25	2.37	2.14	0.29	13.85	7.26	7.02	0.13
11.30	2.42	2.19	0.31	13.90	7.28	7.04	0.13
11.35	2.47	2.24	0.32	13.95	7.30	7.06	0.13
11.40	2.53	2.30	0.34	14.00	7.32	7.08	0.13
11.45	2.59	2.36	0.35	14.05	7.34	7.10	0.12
11.50	2.64	2.41	0.36	14.10	7.36	7.12	0.12
11.55	2.74	2.50	0.47	14.15	7.38	7.14	0.12
11.60	2.83	2.59	0.53	14.20	7.39	7.15	0.12
11.65	2.92	2.69	0.57	14.25	7.41	7.17	0.11
11.70	3.02	2.78	0.59	14.30	7.43	7.19	0.11
11.75	3.15	2.91	0.71	14.35	7.45	7.21	0.11
11.80	3.28	3.04	0.78	14.40	7.46	7.22	0.11
11.85	3.46	3.23	0.97	14.45	7.48	7.24	0.11
11.90	3.64	3.41	1.08	14.50	7.50	7.26	0.10
11.95	3.95	3.72	1.55	14.55	7.51	7.27	0.10
12.00	4.27	4.03	1.83	14.60	7.53	7.29	0.10
12.05	4.79	4.55	2.61	14.65	7.54	7.30	0.10
12.10	5.31	5.07	**3.06**	14.70	7.56	7.32	0.10
12.15	5.49	5.25	**2.10**	14.75	7.57	7.33	0.09
12.20	5.67	5.43	1.43	14.80	7.59	7.35	0.09
12.25	5.80	5.57	1.04	14.85	7.60	7.36	0.09
12.30	5.93	5.70	0.88	14.90	7.62	7.38	0.09
12.35	6.03	5.79	0.71	14.95	7.63	7.39	0.08
12.40	6.12	5.89	0.63	15.00	7.64	7.40	0.08
12.45	6.21	5.98	0.59	15.05	7.66	7.42	0.08
12.50	6.31	6.07	0.57	15.10	7.67	7.43	0.08
12.55	6.36	6.13	0.46	15.15	7.68	7.44	0.08
12.60	6.42	6.18	0.39	15.20	7.69	7.45	0.08
12.65	6.48	6.24	0.36	15.25	7.70	7.47	0.08
12.70	6.53	6.29	0.35	15.30	7.72	7.48	0.08
12.75	6.58	6.34	0.33	15.35	7.73	7.49	0.08
12.80	6.63	6.39	0.32	15.40	7.74	7.50	0.08
12.85	6.68	6.44	0.30	15.45	7.75	7.51	0.07
12.90	6.72	6.48	0.29	15.50	7.76	7.53	0.07
12.95	6.76	6.52	0.27	15.55	7.78	7.54	0.07

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	7.79	7.55	0.07	18.20	8.27	8.03	0.04
15.65	7.80	7.56	0.07	18.25	8.28	8.04	0.04
15.70	7.81	7.57	0.07	18.30	8.28	8.04	0.04
15.75	7.82	7.58	0.07	18.35	8.29	8.05	0.04
15.80	7.83	7.59	0.07	18.40	8.30	8.06	0.04
15.85	7.84	7.61	0.07	18.45	8.30	8.06	0.04
15.90	7.86	7.62	0.07	18.50	8.31	8.07	0.04
15.95	7.87	7.63	0.07	18.55	8.32	8.08	0.04
16.00	7.88	7.64	0.07	18.60	8.33	8.09	0.04
16.05	7.89	7.65	0.07	18.65	8.33	8.09	0.04
16.10	7.90	7.66	0.07	18.70	8.34	8.10	0.04
16.15	7.91	7.67	0.07	18.75	8.35	8.11	0.04
16.20	7.92	7.68	0.07	18.80	8.35	8.11	0.04
16.25	7.93	7.69	0.07	18.85	8.36	8.12	0.04
16.30	7.94	7.70	0.07	18.90	8.37	8.13	0.04
16.35	7.95	7.71	0.06	18.95	8.37	8.13	0.04
16.40	7.96	7.72	0.06	19.00	8.38	8.14	0.04
16.45	7.97	7.73	0.06	19.05	8.39	8.15	0.04
16.50	7.98	7.74	0.06	19.10	8.39	8.15	0.04
16.55	7.99	7.75	0.06	19.15	8.40	8.16	0.04
16.60	8.00	7.76	0.06	19.20	8.41	8.17	0.04
16.65	8.01	7.77	0.06	19.25	8.41	8.17	0.04
16.70	8.02	7.78	0.06	19.30	8.42	8.18	0.04
16.75	8.03	7.79	0.06	19.35	8.43	8.19	0.04
16.80	8.04	7.80	0.06	19.40	8.43	8.19	0.04
16.85	8.05	7.81	0.06	19.45	8.44	8.20	0.04
16.90	8.06	7.82	0.06	19.50	8.45	8.21	0.04
16.95	8.07	7.83	0.06	19.55	8.45	8.21	0.04
17.00	8.08	7.84	0.06	19.60	8.46	8.22	0.04
17.05	8.09	7.85	0.06	19.65	8.47	8.23	0.04
17.10	8.10	7.86	0.06	19.70	8.47	8.23	0.04
17.15	8.10	7.86	0.06	19.75	8.48	8.24	0.04
17.20	8.11	7.87	0.06	19.80	8.49	8.25	0.04
17.25	8.12	7.88	0.05	19.85	8.49	8.25	0.04
17.30	8.13	7.89	0.05	19.90	8.50	8.26	0.04
17.35	8.14	7.90	0.05	19.95	8.51	8.27	0.04
17.40	8.15	7.91	0.05	20.00	8.51	8.27	0.04
17.45	8.16	7.92	0.05	20.05	8.52	8.28	0.04
17.50	8.16	7.92	0.05	20.10	8.52	8.28	0.04
17.55	8.17	7.93	0.05	20.15	8.53	8.29	0.04
17.60	8.18	7.94	0.05	20.20	8.54	8.30	0.04
17.65	8.19	7.95	0.05	20.25	8.54	8.30	0.04
17.70	8.20	7.96	0.05	20.30	8.55	8.31	0.04
17.75	8.20	7.96	0.05	20.35	8.56	8.32	0.04
17.80	8.21	7.97	0.05	20.40	8.56	8.32	0.04
17.85	8.22	7.98	0.05	20.45	8.57	8.33	0.04
17.90	8.23	7.99	0.05	20.50	8.57	8.33	0.04
17.95	8.23	7.99	0.05	20.55	8.58	8.34	0.04
18.00	8.24	8.00	0.05	20.60	8.59	8.35	0.04
18.05	8.25	8.01	0.05	20.65	8.59	8.35	0.04
18.10	8.26	8.02	0.05	20.70	8.60	8.36	0.04
18.15	8.26	8.02	0.04	20.75	8.60	8.36	0.04

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	8.61	8.37	0.04	23.40	8.89	8.65	0.03
20.85	8.62	8.38	0.04	23.45	8.90	8.66	0.03
20.90	8.62	8.38	0.04	23.50	8.90	8.66	0.03
20.95	8.63	8.39	0.04	23.55	8.91	8.67	0.03
21.00	8.63	8.39	0.04	23.60	8.91	8.67	0.03
21.05	8.64	8.40	0.04	23.65	8.92	8.67	0.03
21.10	8.65	8.41	0.04	23.70	8.92	8.68	0.03
21.15	8.65	8.41	0.04	23.75	8.92	8.68	0.03
21.20	8.66	8.42	0.04	23.80	8.93	8.69	0.03
21.25	8.66	8.42	0.04	23.85	8.93	8.69	0.03
21.30	8.67	8.43	0.04	23.90	8.94	8.70	0.03
21.35	8.67	8.43	0.04	23.95	8.94	8.70	0.03
21.40	8.68	8.44	0.04	24.00	**8.95**	**8.71**	0.03
21.45	8.69	8.45	0.04				
21.50	8.69	8.45	0.04				
21.55	8.70	8.46	0.04				
21.60	8.70	8.46	0.04				
21.65	8.71	8.47	0.04				
21.70	8.71	8.47	0.03				
21.75	8.72	8.48	0.03				
21.80	8.73	8.49	0.03				
21.85	8.73	8.49	0.03				
21.90	8.74	8.50	0.03				
21.95	8.74	8.50	0.03				
22.00	8.75	8.51	0.03				
22.05	8.75	8.51	0.03				
22.10	8.76	8.52	0.03				
22.15	8.76	8.52	0.03				
22.20	8.77	8.53	0.03				
22.25	8.77	8.53	0.03				
22.30	8.78	8.54	0.03				
22.35	8.79	8.54	0.03				
22.40	8.79	8.55	0.03				
22.45	8.80	8.56	0.03				
22.50	8.80	8.56	0.03				
22.55	8.81	8.57	0.03				
22.60	8.81	8.57	0.03				
22.65	8.82	8.58	0.03				
22.70	8.82	8.58	0.03				
22.75	8.83	8.59	0.03				
22.80	8.83	8.59	0.03				
22.85	8.84	8.60	0.03				
22.90	8.84	8.60	0.03				
22.95	8.85	8.61	0.03				
23.00	8.85	8.61	0.03				
23.05	8.86	8.62	0.03				
23.10	8.86	8.62	0.03				
23.15	8.87	8.63	0.03				
23.20	8.87	8.63	0.03				
23.25	8.88	8.64	0.03				
23.30	8.88	8.64	0.03				
23.35	8.89	8.65	0.03				

Summary for Subcatchment PDA3 IMP: PDA3 IMP

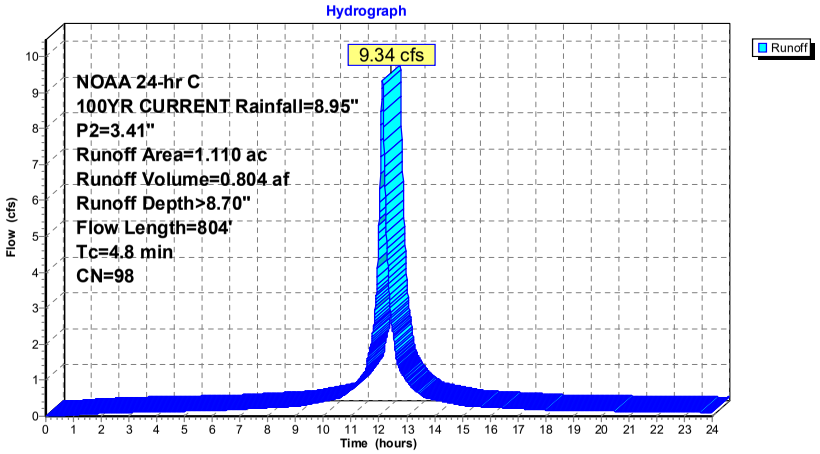
Runoff = 9.34 cfs @ 12.13 hrs, Volume= 0.804 af, Depth> 8.70"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR CURRENT Rainfall=8.95", P2=3.41"

	Area (ac)	CN	Description
*	0.990	98	Impervious vehicular
*	0.120	98	Impervious non vehicular
	1.110	98	Weighted Average
	1.110		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.8	100	0.0071	0.94		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.7	172	0.0039	3.90	12.24	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
0.1	27	0.0120	6.84	21.48	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
1.6	439	0.0015	4.45	87.42	**Pipe Channel, RCP_Round 60"** 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.015
4.8	804	Total			

Subcatchment PDA3 IMP: PDA3 IMP



Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.27	0.12	0.10
0.05	0.01	0.00	0.00	2.65	0.28	0.13	0.10
0.10	0.01	0.00	0.00	2.70	0.28	0.13	0.10
0.15	0.02	0.00	0.00	2.75	0.29	0.13	0.10
0.20	0.02	0.00	0.00	2.80	0.29	0.14	0.10
0.25	0.03	0.00	0.00	2.85	0.30	0.14	0.10
0.30	0.03	0.00	0.00	2.90	0.30	0.15	0.10
0.35	0.03	0.00	0.00	2.95	0.31	0.15	0.10
0.40	0.04	0.00	0.00	3.00	0.32	0.16	0.11
0.45	0.04	0.00	0.00	3.05	0.32	0.16	0.11
0.50	0.05	0.00	0.00	3.10	0.33	0.17	0.11
0.55	0.05	0.00	0.00	3.15	0.33	0.17	0.11
0.60	0.06	0.00	0.01	3.20	0.34	0.18	0.11
0.65	0.06	0.00	0.01	3.25	0.35	0.18	0.11
0.70	0.07	0.00	0.01	3.30	0.35	0.19	0.11
0.75	0.07	0.00	0.02	3.35	0.36	0.19	0.11
0.80	0.08	0.01	0.02	3.40	0.36	0.20	0.11
0.85	0.08	0.01	0.03	3.45	0.37	0.20	0.11
0.90	0.09	0.01	0.03	3.50	0.38	0.21	0.12
0.95	0.09	0.01	0.03	3.55	0.38	0.21	0.12
1.00	0.10	0.01	0.04	3.60	0.39	0.22	0.12
1.05	0.10	0.01	0.04	3.65	0.39	0.22	0.12
1.10	0.11	0.02	0.04	3.70	0.40	0.23	0.12
1.15	0.11	0.02	0.05	3.75	0.41	0.23	0.12
1.20	0.12	0.02	0.05	3.80	0.41	0.24	0.12
1.25	0.12	0.02	0.05	3.85	0.42	0.25	0.12
1.30	0.13	0.03	0.05	3.90	0.43	0.25	0.12
1.35	0.13	0.03	0.06	3.95	0.43	0.26	0.12
1.40	0.14	0.03	0.06	4.00	0.44	0.26	0.12
1.45	0.14	0.03	0.06	4.05	0.44	0.27	0.12
1.50	0.15	0.04	0.06	4.10	0.45	0.27	0.13
1.55	0.15	0.04	0.06	4.15	0.46	0.28	0.13
1.60	0.16	0.04	0.07	4.20	0.46	0.29	0.13
1.65	0.16	0.05	0.07	4.25	0.47	0.29	0.13
1.70	0.17	0.05	0.07	4.30	0.48	0.30	0.13
1.75	0.18	0.05	0.07	4.35	0.48	0.30	0.13
1.80	0.18	0.06	0.07	4.40	0.49	0.31	0.13
1.85	0.19	0.06	0.08	4.45	0.50	0.31	0.13
1.90	0.19	0.06	0.08	4.50	0.50	0.32	0.13
1.95	0.20	0.07	0.08	4.55	0.51	0.33	0.13
2.00	0.20	0.07	0.08	4.60	0.52	0.33	0.13
2.05	0.21	0.08	0.08	4.65	0.52	0.34	0.13
2.10	0.21	0.08	0.08	4.70	0.53	0.34	0.13
2.15	0.22	0.08	0.08	4.75	0.54	0.35	0.13
2.20	0.22	0.09	0.09	4.80	0.54	0.36	0.14
2.25	0.23	0.09	0.09	4.85	0.55	0.36	0.14
2.30	0.24	0.10	0.09	4.90	0.56	0.37	0.14
2.35	0.24	0.10	0.09	4.95	0.56	0.37	0.14
2.40	0.25	0.10	0.09	5.00	0.57	0.38	0.14
2.45	0.25	0.11	0.09	5.05	0.58	0.39	0.14
2.50	0.26	0.11	0.09	5.10	0.58	0.39	0.14
2.55	0.26	0.12	0.10	5.15	0.59	0.40	0.14

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.60	0.41	0.14	7.80	1.03	0.82	0.22
5.25	0.60	0.41	0.14	7.85	1.04	0.83	0.22
5.30	0.61	0.42	0.14	7.90	1.05	0.84	0.23
5.35	0.62	0.43	0.14	7.95	1.06	0.85	0.23
5.40	0.62	0.43	0.14	8.00	1.07	0.86	0.23
5.45	0.63	0.44	0.14	8.05	1.08	0.87	0.23
5.50	0.64	0.45	0.15	8.10	1.09	0.88	0.24
5.55	0.65	0.45	0.15	8.15	1.11	0.89	0.24
5.60	0.65	0.46	0.15	8.20	1.12	0.90	0.24
5.65	0.66	0.46	0.15	8.25	1.13	0.92	0.24
5.70	0.67	0.47	0.15	8.30	1.14	0.93	0.24
5.75	0.67	0.48	0.15	8.35	1.15	0.94	0.25
5.80	0.68	0.49	0.15	8.40	1.16	0.95	0.25
5.85	0.69	0.49	0.15	8.45	1.17	0.96	0.25
5.90	0.69	0.50	0.15	8.50	1.19	0.97	0.25
5.95	0.70	0.51	0.15	8.55	1.20	0.98	0.25
6.00	0.71	0.51	0.15	8.60	1.21	0.99	0.26
6.05	0.72	0.52	0.15	8.65	1.22	1.01	0.26
6.10	0.72	0.53	0.15	8.70	1.23	1.02	0.26
6.15	0.73	0.53	0.16	8.75	1.25	1.03	0.26
6.20	0.74	0.54	0.16	8.80	1.26	1.04	0.26
6.25	0.75	0.55	0.16	8.85	1.27	1.05	0.27
6.30	0.75	0.56	0.16	8.90	1.28	1.07	0.27
6.35	0.76	0.56	0.16	8.95	1.29	1.08	0.27
6.40	0.77	0.57	0.17	9.00	1.31	1.09	0.27
6.45	0.78	0.58	0.17	9.05	1.32	1.10	0.28
6.50	0.79	0.59	0.17	9.10	1.33	1.12	0.28
6.55	0.79	0.59	0.17	9.15	1.35	1.13	0.29
6.60	0.80	0.60	0.17	9.20	1.36	1.14	0.29
6.65	0.81	0.61	0.18	9.25	1.38	1.16	0.30
6.70	0.82	0.62	0.18	9.30	1.39	1.17	0.31
6.75	0.83	0.63	0.18	9.35	1.41	1.19	0.32
6.80	0.84	0.63	0.18	9.40	1.42	1.20	0.32
6.85	0.85	0.64	0.18	9.45	1.44	1.22	0.33
6.90	0.85	0.65	0.19	9.50	1.45	1.23	0.34
6.95	0.86	0.66	0.19	9.55	1.47	1.25	0.35
7.00	0.87	0.67	0.19	9.60	1.49	1.27	0.35
7.05	0.88	0.68	0.19	9.65	1.50	1.28	0.36
7.10	0.89	0.69	0.19	9.70	1.52	1.30	0.37
7.15	0.90	0.69	0.20	9.75	1.54	1.32	0.38
7.20	0.91	0.70	0.20	9.80	1.56	1.34	0.38
7.25	0.92	0.71	0.20	9.85	1.57	1.35	0.39
7.30	0.93	0.72	0.20	9.90	1.59	1.37	0.40
7.35	0.94	0.73	0.20	9.95	1.61	1.39	0.41
7.40	0.95	0.74	0.21	10.00	1.63	1.41	0.41
7.45	0.96	0.75	0.21	10.05	1.65	1.43	0.42
7.50	0.97	0.76	0.21	10.10	1.67	1.45	0.43
7.55	0.98	0.77	0.21	10.15	1.69	1.47	0.44
7.60	0.99	0.78	0.21	10.20	1.71	1.49	0.44
7.65	1.00	0.79	0.22	10.25	1.73	1.51	0.45
7.70	1.01	0.80	0.22	10.30	1.76	1.53	0.46
7.75	1.02	0.81	0.22	10.35	1.78	1.55	0.47

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.80	1.58	0.47	13.00	6.80	6.56	0.98
10.45	1.82	1.60	0.48	13.05	6.84	6.60	0.93
10.50	1.84	1.62	0.49	13.10	6.87	6.63	0.87
10.55	1.87	1.65	0.50	13.15	6.91	6.67	0.83
10.60	1.89	1.67	0.53	13.20	6.94	6.70	0.79
10.65	1.92	1.70	0.55	13.25	6.97	6.73	0.76
10.70	1.95	1.73	0.58	13.30	7.00	6.76	0.72
10.75	1.98	1.76	0.60	13.35	7.03	6.79	0.69
10.80	2.01	1.79	0.63	13.40	7.06	6.82	0.66
10.85	2.04	1.82	0.66	13.45	7.08	6.84	0.64
10.90	2.08	1.85	0.69	13.50	7.11	6.87	0.60
10.95	2.11	1.89	0.72	13.55	7.13	6.89	0.58
11.00	2.15	1.92	0.75	13.60	7.15	6.91	0.55
11.05	2.19	1.96	0.78	13.65	7.17	6.93	0.53
11.10	2.23	2.00	0.83	13.70	7.19	6.96	0.51
11.15	2.27	2.05	0.87	13.75	7.22	6.98	0.50
11.20	2.32	2.09	0.93	13.80	7.24	7.00	0.49
11.25	2.37	2.14	0.98	13.85	7.26	7.02	0.48
11.30	2.42	2.19	1.03	13.90	7.28	7.04	0.47
11.35	2.47	2.24	1.08	13.95	7.30	7.06	0.46
11.40	2.53	2.30	1.14	14.00	7.32	7.08	0.46
11.45	2.59	2.36	1.19	14.05	7.34	7.10	0.45
11.50	2.64	2.41	1.24	14.10	7.36	7.12	0.44
11.55	2.74	2.50	1.37	14.15	7.38	7.14	0.43
11.60	2.83	2.59	1.64	14.20	7.39	7.15	0.43
11.65	2.92	2.69	1.82	14.25	7.41	7.17	0.42
11.70	3.02	2.78	1.95	14.30	7.43	7.19	0.41
11.75	3.15	2.91	2.15	14.35	7.45	7.21	0.40
11.80	3.28	3.04	2.47	14.40	7.46	7.22	0.40
11.85	3.46	3.23	2.84	14.45	7.48	7.24	0.39
11.90	3.64	3.41	3.34	14.50	7.50	7.26	0.38
11.95	3.95	3.72	4.10	14.55	7.51	7.27	0.37
12.00	4.27	4.03	5.30	14.60	7.53	7.29	0.37
12.05	4.79	4.55	6.74	14.65	7.54	7.30	0.36
12.10	5.31	5.07	**8.81**	14.70	7.56	7.32	0.35
12.15	5.49	5.25	**8.88**	14.75	7.57	7.33	0.34
12.20	5.67	5.43	6.95	14.80	7.59	7.35	0.34
12.25	5.80	5.57	5.59	14.85	7.60	7.36	0.33
12.30	5.93	5.70	4.48	14.90	7.62	7.38	0.32
12.35	6.03	5.79	3.69	14.95	7.63	7.39	0.31
12.40	6.12	5.89	2.99	15.00	7.64	7.40	0.31
12.45	6.21	5.98	2.57	15.05	7.66	7.42	0.30
12.50	6.31	6.07	2.32	15.10	7.67	7.43	0.29
12.55	6.36	6.13	2.07	15.15	7.68	7.44	0.29
12.60	6.42	6.18	1.73	15.20	7.69	7.45	0.28
12.65	6.48	6.24	1.53	15.25	7.70	7.47	0.28
12.70	6.53	6.29	1.39	15.30	7.72	7.48	0.28
12.75	6.58	6.34	1.30	15.35	7.73	7.49	0.27
12.80	6.63	6.39	1.22	15.40	7.74	7.50	0.27
12.85	6.68	6.44	1.15	15.45	7.75	7.51	0.27
12.90	6.72	6.48	1.09	15.50	7.76	7.53	0.27
12.95	6.76	6.52	1.04	15.55	7.78	7.54	0.27

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	7.79	7.55	0.26	18.20	8.27	8.03	0.16
15.65	7.80	7.56	0.26	18.25	8.28	8.04	0.16
15.70	7.81	7.57	0.26	18.30	8.28	8.04	0.16
15.75	7.82	7.58	0.26	18.35	8.29	8.05	0.16
15.80	7.83	7.59	0.26	18.40	8.30	8.06	0.16
15.85	7.84	7.61	0.25	18.45	8.30	8.06	0.16
15.90	7.86	7.62	0.25	18.50	8.31	8.07	0.16
15.95	7.87	7.63	0.25	18.55	8.32	8.08	0.16
16.00	7.88	7.64	0.25	18.60	8.33	8.09	0.16
16.05	7.89	7.65	0.25	18.65	8.33	8.09	0.16
16.10	7.90	7.66	0.24	18.70	8.34	8.10	0.16
16.15	7.91	7.67	0.24	18.75	8.35	8.11	0.16
16.20	7.92	7.68	0.24	18.80	8.35	8.11	0.15
16.25	7.93	7.69	0.24	18.85	8.36	8.12	0.15
16.30	7.94	7.70	0.24	18.90	8.37	8.13	0.15
16.35	7.95	7.71	0.23	18.95	8.37	8.13	0.15
16.40	7.96	7.72	0.23	19.00	8.38	8.14	0.15
16.45	7.97	7.73	0.23	19.05	8.39	8.15	0.15
16.50	7.98	7.74	0.23	19.10	8.39	8.15	0.15
16.55	7.99	7.75	0.23	19.15	8.40	8.16	0.15
16.60	8.00	7.76	0.22	19.20	8.41	8.17	0.15
16.65	8.01	7.77	0.22	19.25	8.41	8.17	0.15
16.70	8.02	7.78	0.22	19.30	8.42	8.18	0.15
16.75	8.03	7.79	0.22	19.35	8.43	8.19	0.15
16.80	8.04	7.80	0.22	19.40	8.43	8.19	0.15
16.85	8.05	7.81	0.21	19.45	8.44	8.20	0.15
16.90	8.06	7.82	0.21	19.50	8.45	8.21	0.15
16.95	8.07	7.83	0.21	19.55	8.45	8.21	0.15
17.00	8.08	7.84	0.21	19.60	8.46	8.22	0.15
17.05	8.09	7.85	0.21	19.65	8.47	8.23	0.15
17.10	8.10	7.86	0.20	19.70	8.47	8.23	0.15
17.15	8.10	7.86	0.20	19.75	8.48	8.24	0.15
17.20	8.11	7.87	0.20	19.80	8.49	8.25	0.15
17.25	8.12	7.88	0.20	19.85	8.49	8.25	0.14
17.30	8.13	7.89	0.20	19.90	8.50	8.26	0.14
17.35	8.14	7.90	0.19	19.95	8.51	8.27	0.14
17.40	8.15	7.91	0.19	20.00	8.51	8.27	0.14
17.45	8.16	7.92	0.19	20.05	8.52	8.28	0.14
17.50	8.16	7.92	0.19	20.10	8.52	8.28	0.14
17.55	8.17	7.93	0.19	20.15	8.53	8.29	0.14
17.60	8.18	7.94	0.18	20.20	8.54	8.30	0.14
17.65	8.19	7.95	0.18	20.25	8.54	8.30	0.14
17.70	8.20	7.96	0.18	20.30	8.55	8.31	0.14
17.75	8.20	7.96	0.18	20.35	8.56	8.32	0.14
17.80	8.21	7.97	0.18	20.40	8.56	8.32	0.14
17.85	8.22	7.98	0.17	20.45	8.57	8.33	0.14
17.90	8.23	7.99	0.17	20.50	8.57	8.33	0.14
17.95	8.23	7.99	0.17	20.55	8.58	8.34	0.14
18.00	8.24	8.00	0.17	20.60	8.59	8.35	0.14
18.05	8.25	8.01	0.17	20.65	8.59	8.35	0.14
18.10	8.26	8.02	0.16	20.70	8.60	8.36	0.14
18.15	8.26	8.02	0.16	20.75	8.60	8.36	0.14

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	8.61	8.37	0.13	23.40	8.89	8.65	0.11
20.85	8.62	8.38	0.13	23.45	8.90	8.66	0.11
20.90	8.62	8.38	0.13	23.50	8.90	8.66	0.11
20.95	8.63	8.39	0.13	23.55	8.91	8.67	0.11
21.00	8.63	8.39	0.13	23.60	8.91	8.67	0.11
21.05	8.64	8.40	0.13	23.65	8.92	8.67	0.11
21.10	8.65	8.41	0.13	23.70	8.92	8.68	0.11
21.15	8.65	8.41	0.13	23.75	8.92	8.68	0.11
21.20	8.66	8.42	0.13	23.80	8.93	8.69	0.11
21.25	8.66	8.42	0.13	23.85	8.93	8.69	0.10
21.30	8.67	8.43	0.13	23.90	8.94	8.70	0.10
21.35	8.67	8.43	0.13	23.95	8.94	8.70	0.11
21.40	8.68	8.44	0.13	24.00	**8.95**	**8.71**	0.12
21.45	8.69	8.45	0.13				
21.50	8.69	8.45	0.13				
21.55	8.70	8.46	0.13				
21.60	8.70	8.46	0.13				
21.65	8.71	8.47	0.13				
21.70	8.71	8.47	0.13				
21.75	8.72	8.48	0.13				
21.80	8.73	8.49	0.13				
21.85	8.73	8.49	0.12				
21.90	8.74	8.50	0.12				
21.95	8.74	8.50	0.12				
22.00	8.75	8.51	0.12				
22.05	8.75	8.51	0.12				
22.10	8.76	8.52	0.12				
22.15	8.76	8.52	0.12				
22.20	8.77	8.53	0.12				
22.25	8.77	8.53	0.12				
22.30	8.78	8.54	0.12				
22.35	8.79	8.54	0.12				
22.40	8.79	8.55	0.12				
22.45	8.80	8.56	0.12				
22.50	8.80	8.56	0.12				
22.55	8.81	8.57	0.12				
22.60	8.81	8.57	0.12				
22.65	8.82	8.58	0.12				
22.70	8.82	8.58	0.12				
22.75	8.83	8.59	0.12				
22.80	8.83	8.59	0.11				
22.85	8.84	8.60	0.11				
22.90	8.84	8.60	0.11				
22.95	8.85	8.61	0.11				
23.00	8.85	8.61	0.11				
23.05	8.86	8.62	0.11				
23.10	8.86	8.62	0.11				
23.15	8.87	8.63	0.11				
23.20	8.87	8.63	0.11				
23.25	8.88	8.64	0.11				
23.30	8.88	8.64	0.11				
23.35	8.89	8.65	0.11				

Summary for Subcatchment PDA3 PERV: PDA3 PERV

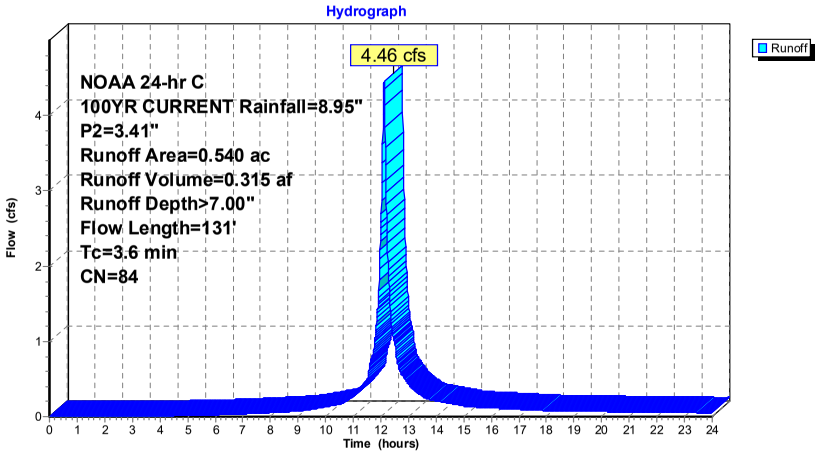
Runoff = 4.46 cfs @ 12.12 hrs, Volume= 0.315 af, Depth> 7.00"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR CURRENT Rainfall=8.95", P2=3.41"

	Area (ac)	CN	Description
*	0.540	84	>75% Grass cover, Good, HSG D
	0.540		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.9	23	0.0200	0.13		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.41"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.1	42	0.0150	5.59	6.86	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
3.6	131	Total			

Subcatchment PDA3 PERV: PDA3 PERV



Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.27	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.28	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.28	0.00	0.00
0.15	0.02	0.00	0.00	2.75	0.29	0.00	0.00
0.20	0.02	0.00	0.00	2.80	0.29	0.00	0.00
0.25	0.03	0.00	0.00	2.85	0.30	0.00	0.00
0.30	0.03	0.00	0.00	2.90	0.30	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.31	0.00	0.00
0.40	0.04	0.00	0.00	3.00	0.32	0.00	0.00
0.45	0.04	0.00	0.00	3.05	0.32	0.00	0.00
0.50	0.05	0.00	0.00	3.10	0.33	0.00	0.00
0.55	0.05	0.00	0.00	3.15	0.33	0.00	0.00
0.60	0.06	0.00	0.00	3.20	0.34	0.00	0.00
0.65	0.06	0.00	0.00	3.25	0.35	0.00	0.00
0.70	0.07	0.00	0.00	3.30	0.35	0.00	0.00
0.75	0.07	0.00	0.00	3.35	0.36	0.00	0.00
0.80	0.08	0.00	0.00	3.40	0.36	0.00	0.00
0.85	0.08	0.00	0.00	3.45	0.37	0.00	0.00
0.90	0.09	0.00	0.00	3.50	0.38	0.00	0.00
0.95	0.09	0.00	0.00	3.55	0.38	0.00	0.00
1.00	0.10	0.00	0.00	3.60	0.39	0.00	0.00
1.05	0.10	0.00	0.00	3.65	0.39	0.00	0.00
1.10	0.11	0.00	0.00	3.70	0.40	0.00	0.00
1.15	0.11	0.00	0.00	3.75	0.41	0.00	0.00
1.20	0.12	0.00	0.00	3.80	0.41	0.00	0.00
1.25	0.12	0.00	0.00	3.85	0.42	0.00	0.00
1.30	0.13	0.00	0.00	3.90	0.43	0.00	0.00
1.35	0.13	0.00	0.00	3.95	0.43	0.00	0.00
1.40	0.14	0.00	0.00	4.00	0.44	0.00	0.00
1.45	0.14	0.00	0.00	4.05	0.44	0.00	0.00
1.50	0.15	0.00	0.00	4.10	0.45	0.00	0.00
1.55	0.15	0.00	0.00	4.15	0.46	0.00	0.00
1.60	0.16	0.00	0.00	4.20	0.46	0.00	0.00
1.65	0.16	0.00	0.00	4.25	0.47	0.00	0.01
1.70	0.17	0.00	0.00	4.30	0.48	0.00	0.01
1.75	0.18	0.00	0.00	4.35	0.48	0.01	0.01
1.80	0.18	0.00	0.00	4.40	0.49	0.01	0.01
1.85	0.19	0.00	0.00	4.45	0.50	0.01	0.01
1.90	0.19	0.00	0.00	4.50	0.50	0.01	0.01
1.95	0.20	0.00	0.00	4.55	0.51	0.01	0.01
2.00	0.20	0.00	0.00	4.60	0.52	0.01	0.01
2.05	0.21	0.00	0.00	4.65	0.52	0.01	0.01
2.10	0.21	0.00	0.00	4.70	0.53	0.01	0.01
2.15	0.22	0.00	0.00	4.75	0.54	0.01	0.01
2.20	0.22	0.00	0.00	4.80	0.54	0.01	0.01
2.25	0.23	0.00	0.00	4.85	0.55	0.01	0.01
2.30	0.24	0.00	0.00	4.90	0.56	0.01	0.01
2.35	0.24	0.00	0.00	4.95	0.56	0.02	0.01
2.40	0.25	0.00	0.00	5.00	0.57	0.02	0.01
2.45	0.25	0.00	0.00	5.05	0.58	0.02	0.01
2.50	0.26	0.00	0.00	5.10	0.58	0.02	0.01
2.55	0.26	0.00	0.00	5.15	0.59	0.02	0.01

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.60	0.02	0.01	7.80	1.03	0.16	0.05
5.25	0.60	0.02	0.01	7.85	1.04	0.17	0.05
5.30	0.61	0.02	0.01	7.90	1.05	0.17	0.05
5.35	0.62	0.03	0.01	7.95	1.06	0.18	0.05
5.40	0.62	0.03	0.02	8.00	1.07	0.18	0.05
5.45	0.63	0.03	0.02	8.05	1.08	0.19	0.05
5.50	0.64	0.03	0.02	8.10	1.09	0.19	0.05
5.55	0.65	0.03	0.02	8.15	1.11	0.20	0.06
5.60	0.65	0.03	0.02	8.20	1.12	0.20	0.06
5.65	0.66	0.04	0.02	8.25	1.13	0.21	0.06
5.70	0.67	0.04	0.02	8.30	1.14	0.22	0.06
5.75	0.67	0.04	0.02	8.35	1.15	0.22	0.06
5.80	0.68	0.04	0.02	8.40	1.16	0.23	0.06
5.85	0.69	0.04	0.02	8.45	1.17	0.23	0.06
5.90	0.69	0.04	0.02	8.50	1.19	0.24	0.06
5.95	0.70	0.05	0.02	8.55	1.20	0.24	0.06
6.00	0.71	0.05	0.02	8.60	1.21	0.25	0.06
6.05	0.72	0.05	0.02	8.65	1.22	0.26	0.07
6.10	0.72	0.05	0.02	8.70	1.23	0.26	0.07
6.15	0.73	0.05	0.02	8.75	1.25	0.27	0.07
6.20	0.74	0.06	0.02	8.80	1.26	0.28	0.07
6.25	0.75	0.06	0.02	8.85	1.27	0.28	0.07
6.30	0.75	0.06	0.02	8.90	1.28	0.29	0.07
6.35	0.76	0.06	0.03	8.95	1.29	0.30	0.07
6.40	0.77	0.07	0.03	9.00	1.31	0.30	0.07
6.45	0.78	0.07	0.03	9.05	1.32	0.31	0.08
6.50	0.79	0.07	0.03	9.10	1.33	0.32	0.08
6.55	0.79	0.07	0.03	9.15	1.35	0.33	0.08
6.60	0.80	0.08	0.03	9.20	1.36	0.33	0.08
6.65	0.81	0.08	0.03	9.25	1.38	0.34	0.09
6.70	0.82	0.08	0.03	9.30	1.39	0.35	0.09
6.75	0.83	0.09	0.03	9.35	1.41	0.36	0.09
6.80	0.84	0.09	0.03	9.40	1.42	0.37	0.09
6.85	0.85	0.09	0.03	9.45	1.44	0.38	0.10
6.90	0.85	0.09	0.03	9.50	1.45	0.39	0.10
6.95	0.86	0.10	0.03	9.55	1.47	0.40	0.10
7.00	0.87	0.10	0.03	9.60	1.49	0.41	0.10
7.05	0.88	0.10	0.04	9.65	1.50	0.42	0.11
7.10	0.89	0.11	0.04	9.70	1.52	0.43	0.11
7.15	0.90	0.11	0.04	9.75	1.54	0.44	0.11
7.20	0.91	0.12	0.04	9.80	1.56	0.45	0.12
7.25	0.92	0.12	0.04	9.85	1.57	0.46	0.12
7.30	0.93	0.12	0.04	9.90	1.59	0.47	0.12
7.35	0.94	0.13	0.04	9.95	1.61	0.48	0.13
7.40	0.95	0.13	0.04	10.00	1.63	0.50	0.13
7.45	0.96	0.13	0.04	10.05	1.65	0.51	0.13
7.50	0.97	0.14	0.04	10.10	1.67	0.52	0.14
7.55	0.98	0.14	0.04	10.15	1.69	0.53	0.14
7.60	0.99	0.15	0.05	10.20	1.71	0.55	0.14
7.65	1.00	0.15	0.05	10.25	1.73	0.56	0.15
7.70	1.01	0.16	0.05	10.30	1.76	0.58	0.15
7.75	1.02	0.16	0.05	10.35	1.78	0.59	0.15

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.80	0.61	0.16	13.00	6.80	4.95	0.44
10.45	1.82	0.62	0.16	13.05	6.84	4.99	0.41
10.50	1.84	0.64	0.16	13.10	6.87	5.02	0.39
10.55	1.87	0.65	0.17	13.15	6.91	5.05	0.37
10.60	1.89	0.67	0.18	13.20	6.94	5.08	0.35
10.65	1.92	0.69	0.19	13.25	6.97	5.11	0.34
10.70	1.95	0.71	0.20	13.30	7.00	5.14	0.33
10.75	1.98	0.73	0.21	13.35	7.03	5.17	0.31
10.80	2.01	0.75	0.22	13.40	7.06	5.19	0.30
10.85	2.04	0.78	0.23	13.45	7.08	5.22	0.28
10.90	2.08	0.80	0.25	13.50	7.11	5.24	0.27
10.95	2.11	0.82	0.26	13.55	7.13	5.26	0.26
11.00	2.15	0.85	0.27	13.60	7.15	5.28	0.25
11.05	2.19	0.88	0.29	13.65	7.17	5.30	0.24
11.10	2.23	0.91	0.31	13.70	7.19	5.32	0.23
11.15	2.27	0.94	0.33	13.75	7.22	5.35	0.23
11.20	2.32	0.98	0.35	13.80	7.24	5.37	0.22
11.25	2.37	1.01	0.37	13.85	7.26	5.39	0.22
11.30	2.42	1.05	0.39	13.90	7.28	5.40	0.22
11.35	2.47	1.10	0.42	13.95	7.30	5.42	0.21
11.40	2.53	1.14	0.44	14.00	7.32	5.44	0.21
11.45	2.59	1.18	0.46	14.05	7.34	5.46	0.21
11.50	2.64	1.23	0.48	14.10	7.36	5.48	0.20
11.55	2.74	1.30	0.57	14.15	7.38	5.50	0.20
11.60	2.83	1.37	0.69	14.20	7.39	5.51	0.20
11.65	2.92	1.45	0.76	14.25	7.41	5.53	0.19
11.70	3.02	1.53	0.81	14.30	7.43	5.55	0.19
11.75	3.15	1.64	0.92	14.35	7.45	5.57	0.19
11.80	3.28	1.75	1.06	14.40	7.46	5.58	0.18
11.85	3.46	1.90	1.27	14.45	7.48	5.60	0.18
11.90	3.64	2.06	1.49	14.50	7.50	5.61	0.18
11.95	3.95	2.33	1.96	14.55	7.51	5.63	0.17
12.00	4.27	2.61	2.50	14.60	7.53	5.64	0.17
12.05	4.79	3.08	3.37	14.65	7.54	5.66	0.16
12.10	5.31	3.56	**4.32**	14.70	7.56	5.67	0.16
12.15	5.49	3.72	**3.85**	14.75	7.57	5.69	0.16
12.20	5.67	3.89	2.82	14.80	7.59	5.70	0.15
12.25	5.80	4.01	2.17	14.85	7.60	5.71	0.15
12.30	5.93	4.13	1.72	14.90	7.62	5.73	0.15
12.35	6.03	4.22	1.39	14.95	7.63	5.74	0.14
12.40	6.12	4.31	1.16	15.00	7.64	5.75	0.14
12.45	6.21	4.40	1.04	15.05	7.66	5.76	0.14
12.50	6.31	4.48	0.97	15.10	7.67	5.78	0.13
12.55	6.36	4.54	0.85	15.15	7.68	5.79	0.13
12.60	6.42	4.59	0.72	15.20	7.69	5.80	0.13
12.65	6.48	4.64	0.64	15.25	7.70	5.81	0.13
12.70	6.53	4.70	0.60	15.30	7.72	5.82	0.13
12.75	6.58	4.74	0.56	15.35	7.73	5.84	0.13
12.80	6.63	4.79	0.54	15.40	7.74	5.85	0.13
12.85	6.68	4.83	0.51	15.45	7.75	5.86	0.13
12.90	6.72	4.88	0.49	15.50	7.76	5.87	0.12
12.95	6.76	4.91	0.46	15.55	7.78	5.88	0.12

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	7.79	5.89	0.12	18.20	8.27	6.35	0.08
15.65	7.80	5.90	0.12	18.25	8.28	6.36	0.08
15.70	7.81	5.91	0.12	18.30	8.28	6.37	0.07
15.75	7.82	5.92	0.12	18.35	8.29	6.37	0.07
15.80	7.83	5.94	0.12	18.40	8.30	6.38	0.07
15.85	7.84	5.95	0.12	18.45	8.30	6.39	0.07
15.90	7.86	5.96	0.12	18.50	8.31	6.40	0.07
15.95	7.87	5.97	0.12	18.55	8.32	6.40	0.07
16.00	7.88	5.98	0.11	18.60	8.33	6.41	0.07
16.05	7.89	5.99	0.11	18.65	8.33	6.42	0.07
16.10	7.90	6.00	0.11	18.70	8.34	6.42	0.07
16.15	7.91	6.01	0.11	18.75	8.35	6.43	0.07
16.20	7.92	6.02	0.11	18.80	8.35	6.44	0.07
16.25	7.93	6.03	0.11	18.85	8.36	6.44	0.07
16.30	7.94	6.04	0.11	18.90	8.37	6.45	0.07
16.35	7.95	6.05	0.11	18.95	8.37	6.45	0.07
16.40	7.96	6.06	0.11	19.00	8.38	6.46	0.07
16.45	7.97	6.07	0.11	19.05	8.39	6.47	0.07
16.50	7.98	6.08	0.11	19.10	8.39	6.47	0.07
16.55	7.99	6.09	0.10	19.15	8.40	6.48	0.07
16.60	8.00	6.10	0.10	19.20	8.41	6.49	0.07
16.65	8.01	6.11	0.10	19.25	8.41	6.49	0.07
16.70	8.02	6.12	0.10	19.30	8.42	6.50	0.07
16.75	8.03	6.12	0.10	19.35	8.43	6.51	0.07
16.80	8.04	6.13	0.10	19.40	8.43	6.51	0.07
16.85	8.05	6.14	0.10	19.45	8.44	6.52	0.07
16.90	8.06	6.15	0.10	19.50	8.45	6.53	0.07
16.95	8.07	6.16	0.10	19.55	8.45	6.53	0.07
17.00	8.08	6.17	0.10	19.60	8.46	6.54	0.07
17.05	8.09	6.18	0.10	19.65	8.47	6.54	0.07
17.10	8.10	6.19	0.09	19.70	8.47	6.55	0.07
17.15	8.10	6.19	0.09	19.75	8.48	6.56	0.07
17.20	8.11	6.20	0.09	19.80	8.49	6.56	0.07
17.25	8.12	6.21	0.09	19.85	8.49	6.57	0.07
17.30	8.13	6.22	0.09	19.90	8.50	6.58	0.07
17.35	8.14	6.23	0.09	19.95	8.51	6.58	0.07
17.40	8.15	6.24	0.09	20.00	8.51	6.59	0.07
17.45	8.16	6.24	0.09	20.05	8.52	6.59	0.07
17.50	8.16	6.25	0.09	20.10	8.52	6.60	0.07
17.55	8.17	6.26	0.09	20.15	8.53	6.61	0.07
17.60	8.18	6.27	0.09	20.20	8.54	6.61	0.07
17.65	8.19	6.28	0.08	20.25	8.54	6.62	0.07
17.70	8.20	6.28	0.08	20.30	8.55	6.62	0.07
17.75	8.20	6.29	0.08	20.35	8.56	6.63	0.07
17.80	8.21	6.30	0.08	20.40	8.56	6.64	0.07
17.85	8.22	6.31	0.08	20.45	8.57	6.64	0.06
17.90	8.23	6.31	0.08	20.50	8.57	6.65	0.06
17.95	8.23	6.32	0.08	20.55	8.58	6.65	0.06
18.00	8.24	6.33	0.08	20.60	8.59	6.66	0.06
18.05	8.25	6.33	0.08	20.65	8.59	6.67	0.06
18.10	8.26	6.34	0.08	20.70	8.60	6.67	0.06
18.15	8.26	6.35	0.08	20.75	8.60	6.68	0.06

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	8.61	6.68	0.06	23.40	8.89	6.95	0.05
20.85	8.62	6.69	0.06	23.45	8.90	6.96	0.05
20.90	8.62	6.69	0.06	23.50	8.90	6.96	0.05
20.95	8.63	6.70	0.06	23.55	8.91	6.97	0.05
21.00	8.63	6.71	0.06	23.60	8.91	6.97	0.05
21.05	8.64	6.71	0.06	23.65	8.92	6.98	0.05
21.10	8.65	6.72	0.06	23.70	8.92	6.98	0.05
21.15	8.65	6.72	0.06	23.75	8.92	6.99	0.05
21.20	8.66	6.73	0.06	23.80	8.93	6.99	0.05
21.25	8.66	6.73	0.06	23.85	8.93	7.00	0.05
21.30	8.67	6.74	0.06	23.90	8.94	7.00	0.05
21.35	8.67	6.74	0.06	23.95	8.94	7.01	0.05
21.40	8.68	6.75	0.06	24.00	**8.95**	**7.01**	0.06
21.45	8.69	6.76	0.06				
21.50	8.69	6.76	0.06				
21.55	8.70	6.77	0.06				
21.60	8.70	6.77	0.06				
21.65	8.71	6.78	0.06				
21.70	8.71	6.78	0.06				
21.75	8.72	6.79	0.06				
21.80	8.73	6.79	0.06				
21.85	8.73	6.80	0.06				
21.90	8.74	6.80	0.06				
21.95	8.74	6.81	0.06				
22.00	8.75	6.82	0.06				
22.05	8.75	6.82	0.06				
22.10	8.76	6.83	0.06				
22.15	8.76	6.83	0.06				
22.20	8.77	6.84	0.06				
22.25	8.77	6.84	0.06				
22.30	8.78	6.85	0.06				
22.35	8.79	6.85	0.06				
22.40	8.79	6.86	0.06				
22.45	8.80	6.86	0.06				
22.50	8.80	6.87	0.06				
22.55	8.81	6.87	0.06				
22.60	8.81	6.88	0.06				
22.65	8.82	6.88	0.05				
22.70	8.82	6.89	0.05				
22.75	8.83	6.89	0.05				
22.80	8.83	6.90	0.05				
22.85	8.84	6.90	0.05				
22.90	8.84	6.91	0.05				
22.95	8.85	6.91	0.05				
23.00	8.85	6.92	0.05				
23.05	8.86	6.92	0.05				
23.10	8.86	6.93	0.05				
23.15	8.87	6.93	0.05				
23.20	8.87	6.94	0.05				
23.25	8.88	6.94	0.05				
23.30	8.88	6.94	0.05				
23.35	8.89	6.95	0.05				

Summary for Subcatchment PDA4 IMP: PDA4 IMP

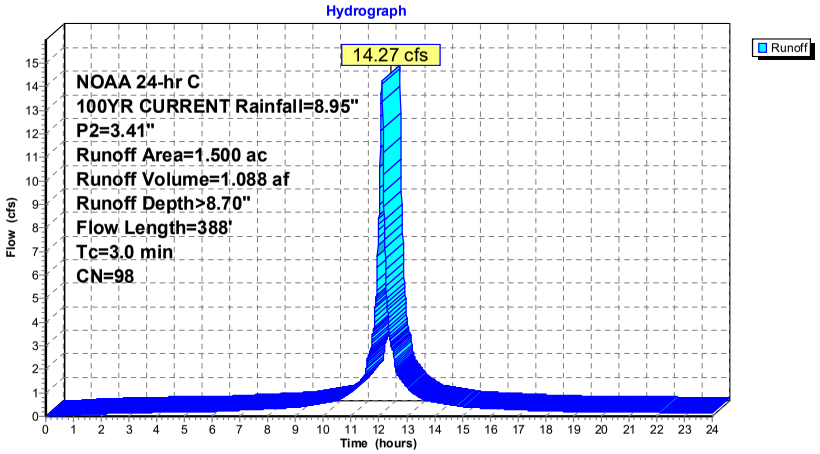
Runoff = 14.27 cfs @ 12.11 hrs, Volume= 1.088 af, Depth> 8.70"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR CURRENT Rainfall=8.95", P2=3.41"

	Area (ac)	CN	Description
*	1.500	98	Impervious vehicular
	1.500		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.3	100	0.0160	1.30		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.41"
0.6	88	0.0150	2.49		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.5	100	0.0039	3.22	5.69	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.6	100	0.0020	2.79	8.77	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
3.0	388	Total			

Subcatchment PDA4 IMP: PDA4 IMP



Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.27	0.12	0.13
0.05	0.01	0.00	0.00	2.65	0.28	0.13	0.13
0.10	0.01	0.00	0.00	2.70	0.28	0.13	0.13
0.15	0.02	0.00	0.00	2.75	0.29	0.13	0.14
0.20	0.02	0.00	0.00	2.80	0.29	0.14	0.14
0.25	0.03	0.00	0.00	2.85	0.30	0.14	0.14
0.30	0.03	0.00	0.00	2.90	0.30	0.15	0.14
0.35	0.03	0.00	0.00	2.95	0.31	0.15	0.14
0.40	0.04	0.00	0.00	3.00	0.32	0.16	0.14
0.45	0.04	0.00	0.00	3.05	0.32	0.16	0.15
0.50	0.05	0.00	0.00	3.10	0.33	0.17	0.15
0.55	0.05	0.00	0.01	3.15	0.33	0.17	0.15
0.60	0.06	0.00	0.01	3.20	0.34	0.18	0.15
0.65	0.06	0.00	0.02	3.25	0.35	0.18	0.15
0.70	0.07	0.00	0.02	3.30	0.35	0.19	0.15
0.75	0.07	0.00	0.03	3.35	0.36	0.19	0.15
0.80	0.08	0.01	0.03	3.40	0.36	0.20	0.15
0.85	0.08	0.01	0.04	3.45	0.37	0.20	0.16
0.90	0.09	0.01	0.04	3.50	0.38	0.21	0.16
0.95	0.09	0.01	0.05	3.55	0.38	0.21	0.16
1.00	0.10	0.01	0.05	3.60	0.39	0.22	0.16
1.05	0.10	0.01	0.06	3.65	0.39	0.22	0.16
1.10	0.11	0.02	0.06	3.70	0.40	0.23	0.16
1.15	0.11	0.02	0.06	3.75	0.41	0.23	0.16
1.20	0.12	0.02	0.07	3.80	0.41	0.24	0.16
1.25	0.12	0.02	0.07	3.85	0.42	0.25	0.16
1.30	0.13	0.03	0.07	3.90	0.43	0.25	0.17
1.35	0.13	0.03	0.08	3.95	0.43	0.26	0.17
1.40	0.14	0.03	0.08	4.00	0.44	0.26	0.17
1.45	0.14	0.03	0.08	4.05	0.44	0.27	0.17
1.50	0.15	0.04	0.09	4.10	0.45	0.27	0.17
1.55	0.15	0.04	0.09	4.15	0.46	0.28	0.17
1.60	0.16	0.04	0.09	4.20	0.46	0.29	0.17
1.65	0.16	0.05	0.09	4.25	0.47	0.29	0.17
1.70	0.17	0.05	0.10	4.30	0.48	0.30	0.18
1.75	0.18	0.05	0.10	4.35	0.48	0.30	0.18
1.80	0.18	0.06	0.10	4.40	0.49	0.31	0.18
1.85	0.19	0.06	0.10	4.45	0.50	0.31	0.18
1.90	0.19	0.06	0.11	4.50	0.50	0.32	0.18
1.95	0.20	0.07	0.11	4.55	0.51	0.33	0.18
2.00	0.20	0.07	0.11	4.60	0.52	0.33	0.18
2.05	0.21	0.08	0.11	4.65	0.52	0.34	0.18
2.10	0.21	0.08	0.11	4.70	0.53	0.34	0.18
2.15	0.22	0.08	0.12	4.75	0.54	0.35	0.18
2.20	0.22	0.09	0.12	4.80	0.54	0.36	0.18
2.25	0.23	0.09	0.12	4.85	0.55	0.36	0.18
2.30	0.24	0.10	0.12	4.90	0.56	0.37	0.19
2.35	0.24	0.10	0.12	4.95	0.56	0.37	0.19
2.40	0.25	0.10	0.13	5.00	0.57	0.38	0.19
2.45	0.25	0.11	0.13	5.05	0.58	0.39	0.19
2.50	0.26	0.11	0.13	5.10	0.58	0.39	0.19
2.55	0.26	0.12	0.13	5.15	0.59	0.40	0.19

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.60	0.41	0.19	7.80	1.03	0.82	0.30
5.25	0.60	0.41	0.19	7.85	1.04	0.83	0.31
5.30	0.61	0.42	0.19	7.90	1.05	0.84	0.31
5.35	0.62	0.43	0.19	7.95	1.06	0.85	0.31
5.40	0.62	0.43	0.19	8.00	1.07	0.86	0.32
5.45	0.63	0.44	0.20	8.05	1.08	0.87	0.32
5.50	0.64	0.45	0.20	8.10	1.09	0.88	0.32
5.55	0.65	0.45	0.20	8.15	1.11	0.89	0.32
5.60	0.65	0.46	0.20	8.20	1.12	0.90	0.33
5.65	0.66	0.46	0.20	8.25	1.13	0.92	0.33
5.70	0.67	0.47	0.20	8.30	1.14	0.93	0.33
5.75	0.67	0.48	0.20	8.35	1.15	0.94	0.33
5.80	0.68	0.49	0.20	8.40	1.16	0.95	0.34
5.85	0.69	0.49	0.20	8.45	1.17	0.96	0.34
5.90	0.69	0.50	0.20	8.50	1.19	0.97	0.34
5.95	0.70	0.51	0.20	8.55	1.20	0.98	0.35
6.00	0.71	0.51	0.21	8.60	1.21	0.99	0.35
6.05	0.72	0.52	0.21	8.65	1.22	1.01	0.35
6.10	0.72	0.53	0.21	8.70	1.23	1.02	0.35
6.15	0.73	0.53	0.21	8.75	1.25	1.03	0.36
6.20	0.74	0.54	0.22	8.80	1.26	1.04	0.36
6.25	0.75	0.55	0.22	8.85	1.27	1.05	0.36
6.30	0.75	0.56	0.22	8.90	1.28	1.07	0.36
6.35	0.76	0.56	0.22	8.95	1.29	1.08	0.37
6.40	0.77	0.57	0.23	9.00	1.31	1.09	0.37
6.45	0.78	0.58	0.23	9.05	1.32	1.10	0.38
6.50	0.79	0.59	0.23	9.10	1.33	1.12	0.39
6.55	0.79	0.59	0.24	9.15	1.35	1.13	0.40
6.60	0.80	0.60	0.24	9.20	1.36	1.14	0.41
6.65	0.81	0.61	0.24	9.25	1.38	1.16	0.42
6.70	0.82	0.62	0.24	9.30	1.39	1.17	0.43
6.75	0.83	0.63	0.25	9.35	1.41	1.19	0.44
6.80	0.84	0.63	0.25	9.40	1.42	1.20	0.45
6.85	0.85	0.64	0.25	9.45	1.44	1.22	0.46
6.90	0.85	0.65	0.25	9.50	1.45	1.23	0.47
6.95	0.86	0.66	0.26	9.55	1.47	1.25	0.48
7.00	0.87	0.67	0.26	9.60	1.49	1.27	0.49
7.05	0.88	0.68	0.26	9.65	1.50	1.28	0.50
7.10	0.89	0.69	0.27	9.70	1.52	1.30	0.51
7.15	0.90	0.69	0.27	9.75	1.54	1.32	0.52
7.20	0.91	0.70	0.27	9.80	1.56	1.34	0.53
7.25	0.92	0.71	0.27	9.85	1.57	1.35	0.54
7.30	0.93	0.72	0.28	9.90	1.59	1.37	0.55
7.35	0.94	0.73	0.28	9.95	1.61	1.39	0.56
7.40	0.95	0.74	0.28	10.00	1.63	1.41	0.57
7.45	0.96	0.75	0.29	10.05	1.65	1.43	0.58
7.50	0.97	0.76	0.29	10.10	1.67	1.45	0.59
7.55	0.98	0.77	0.29	10.15	1.69	1.47	0.60
7.60	0.99	0.78	0.29	10.20	1.71	1.49	0.61
7.65	1.00	0.79	0.30	10.25	1.73	1.51	0.62
7.70	1.01	0.80	0.30	10.30	1.76	1.53	0.63
7.75	1.02	0.81	0.30	10.35	1.78	1.55	0.64

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.80	1.58	0.65	13.00	6.80	6.56	1.26
10.45	1.82	1.60	0.66	13.05	6.84	6.60	1.18
10.50	1.84	1.62	0.67	13.10	6.87	6.63	1.11
10.55	1.87	1.65	0.70	13.15	6.91	6.67	1.06
10.60	1.89	1.67	0.73	13.20	6.94	6.70	1.02
10.65	1.92	1.70	0.78	13.25	6.97	6.73	0.97
10.70	1.95	1.73	0.81	13.30	7.00	6.76	0.94
10.75	1.98	1.76	0.85	13.35	7.03	6.79	0.90
10.80	2.01	1.79	0.89	13.40	7.06	6.82	0.86
10.85	2.04	1.82	0.93	13.45	7.08	6.84	0.82
10.90	2.08	1.85	0.96	13.50	7.11	6.87	0.78
10.95	2.11	1.89	1.01	13.55	7.13	6.89	0.74
11.00	2.15	1.92	1.04	13.60	7.15	6.91	0.71
11.05	2.19	1.96	1.11	13.65	7.17	6.93	0.68
11.10	2.23	2.00	1.17	13.70	7.19	6.96	0.67
11.15	2.27	2.05	1.25	13.75	7.22	6.98	0.66
11.20	2.32	2.09	1.31	13.80	7.24	7.00	0.65
11.25	2.37	2.14	1.39	13.85	7.26	7.02	0.64
11.30	2.42	2.19	1.46	13.90	7.28	7.04	0.63
11.35	2.47	2.24	1.54	13.95	7.30	7.06	0.62
11.40	2.53	2.30	1.60	14.00	7.32	7.08	0.61
11.45	2.59	2.36	1.67	14.05	7.34	7.10	0.60
11.50	2.64	2.41	1.72	14.10	7.36	7.12	0.59
11.55	2.74	2.50	2.11	14.15	7.38	7.14	0.58
11.60	2.83	2.59	2.47	14.20	7.39	7.15	0.57
11.65	2.92	2.69	2.68	14.25	7.41	7.17	0.56
11.70	3.02	2.78	2.80	14.30	7.43	7.19	0.55
11.75	3.15	2.91	3.25	14.35	7.45	7.21	0.54
11.80	3.28	3.04	3.66	14.40	7.46	7.22	0.53
11.85	3.46	3.23	4.41	14.45	7.48	7.24	0.52
11.90	3.64	3.41	5.04	14.50	7.50	7.26	0.51
11.95	3.95	3.72	6.82	14.55	7.51	7.27	0.50
12.00	4.27	4.03	8.37	14.60	7.53	7.29	0.49
12.05	4.79	4.55	11.44	14.65	7.54	7.30	0.47
12.10	5.31	5.07	**14.02**	14.70	7.56	7.32	0.47
12.15	5.49	5.25	**11.18**	14.75	7.57	7.33	0.45
12.20	5.67	5.43	7.90	14.80	7.59	7.35	0.45
12.25	5.80	5.57	5.86	14.85	7.60	7.36	0.43
12.30	5.93	5.70	4.66	14.90	7.62	7.38	0.43
12.35	6.03	5.79	3.79	14.95	7.63	7.39	0.41
12.40	6.12	5.89	3.22	15.00	7.64	7.40	0.40
12.45	6.21	5.98	2.94	15.05	7.66	7.42	0.39
12.50	6.31	6.07	2.81	15.10	7.67	7.43	0.39
12.55	6.36	6.13	2.39	15.15	7.68	7.44	0.38
12.60	6.42	6.18	2.02	15.20	7.69	7.45	0.38
12.65	6.48	6.24	1.82	15.25	7.70	7.47	0.37
12.70	6.53	6.29	1.71	15.30	7.72	7.48	0.37
12.75	6.58	6.34	1.62	15.35	7.73	7.49	0.37
12.80	6.63	6.39	1.55	15.40	7.74	7.50	0.37
12.85	6.68	6.44	1.47	15.45	7.75	7.51	0.36
12.90	6.72	6.48	1.41	15.50	7.76	7.53	0.36
12.95	6.76	6.52	1.32	15.55	7.78	7.54	0.36

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	7.79	7.55	0.35	18.20	8.27	8.03	0.22
15.65	7.80	7.56	0.35	18.25	8.28	8.04	0.22
15.70	7.81	7.57	0.35	18.30	8.28	8.04	0.22
15.75	7.82	7.58	0.34	18.35	8.29	8.05	0.21
15.80	7.83	7.59	0.34	18.40	8.30	8.06	0.21
15.85	7.84	7.61	0.34	18.45	8.30	8.06	0.21
15.90	7.86	7.62	0.34	18.50	8.31	8.07	0.21
15.95	7.87	7.63	0.33	18.55	8.32	8.08	0.21
16.00	7.88	7.64	0.33	18.60	8.33	8.09	0.21
16.05	7.89	7.65	0.33	18.65	8.33	8.09	0.21
16.10	7.90	7.66	0.33	18.70	8.34	8.10	0.21
16.15	7.91	7.67	0.32	18.75	8.35	8.11	0.21
16.20	7.92	7.68	0.32	18.80	8.35	8.11	0.21
16.25	7.93	7.69	0.32	18.85	8.36	8.12	0.21
16.30	7.94	7.70	0.32	18.90	8.37	8.13	0.21
16.35	7.95	7.71	0.31	18.95	8.37	8.13	0.21
16.40	7.96	7.72	0.31	19.00	8.38	8.14	0.21
16.45	7.97	7.73	0.31	19.05	8.39	8.15	0.21
16.50	7.98	7.74	0.30	19.10	8.39	8.15	0.20
16.55	7.99	7.75	0.30	19.15	8.40	8.16	0.20
16.60	8.00	7.76	0.30	19.20	8.41	8.17	0.20
16.65	8.01	7.77	0.30	19.25	8.41	8.17	0.20
16.70	8.02	7.78	0.30	19.30	8.42	8.18	0.20
16.75	8.03	7.79	0.29	19.35	8.43	8.19	0.20
16.80	8.04	7.80	0.29	19.40	8.43	8.19	0.20
16.85	8.05	7.81	0.29	19.45	8.44	8.20	0.20
16.90	8.06	7.82	0.28	19.50	8.45	8.21	0.20
16.95	8.07	7.83	0.28	19.55	8.45	8.21	0.20
17.00	8.08	7.84	0.28	19.60	8.46	8.22	0.20
17.05	8.09	7.85	0.28	19.65	8.47	8.23	0.20
17.10	8.10	7.86	0.27	19.70	8.47	8.23	0.20
17.15	8.10	7.86	0.27	19.75	8.48	8.24	0.20
17.20	8.11	7.87	0.27	19.80	8.49	8.25	0.20
17.25	8.12	7.88	0.26	19.85	8.49	8.25	0.20
17.30	8.13	7.89	0.26	19.90	8.50	8.26	0.19
17.35	8.14	7.90	0.26	19.95	8.51	8.27	0.19
17.40	8.15	7.91	0.26	20.00	8.51	8.27	0.19
17.45	8.16	7.92	0.25	20.05	8.52	8.28	0.19
17.50	8.16	7.92	0.25	20.10	8.52	8.28	0.19
17.55	8.17	7.93	0.25	20.15	8.53	8.29	0.19
17.60	8.18	7.94	0.25	20.20	8.54	8.30	0.19
17.65	8.19	7.95	0.24	20.25	8.54	8.30	0.19
17.70	8.20	7.96	0.24	20.30	8.55	8.31	0.19
17.75	8.20	7.96	0.24	20.35	8.56	8.32	0.19
17.80	8.21	7.97	0.24	20.40	8.56	8.32	0.19
17.85	8.22	7.98	0.23	20.45	8.57	8.33	0.19
17.90	8.23	7.99	0.23	20.50	8.57	8.33	0.19
17.95	8.23	7.99	0.23	20.55	8.58	8.34	0.19
18.00	8.24	8.00	0.22	20.60	8.59	8.35	0.19
18.05	8.25	8.01	0.22	20.65	8.59	8.35	0.18
18.10	8.26	8.02	0.22	20.70	8.60	8.36	0.18
18.15	8.26	8.02	0.22	20.75	8.60	8.36	0.18

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

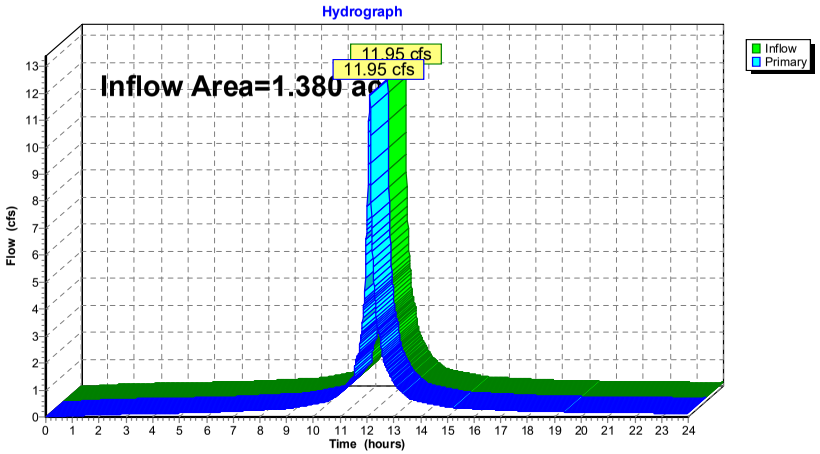
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	8.61	8.37	0.18	23.40	8.89	8.65	0.15
20.85	8.62	8.38	0.18	23.45	8.90	8.66	0.15
20.90	8.62	8.38	0.18	23.50	8.90	8.66	0.15
20.95	8.63	8.39	0.18	23.55	8.91	8.67	0.14
21.00	8.63	8.39	0.18	23.60	8.91	8.67	0.14
21.05	8.64	8.40	0.18	23.65	8.92	8.67	0.14
21.10	8.65	8.41	0.18	23.70	8.92	8.68	0.14
21.15	8.65	8.41	0.18	23.75	8.92	8.68	0.14
21.20	8.66	8.42	0.18	23.80	8.93	8.69	0.14
21.25	8.66	8.42	0.18	23.85	8.93	8.69	0.14
21.30	8.67	8.43	0.18	23.90	8.94	8.70	0.14
21.35	8.67	8.43	0.17	23.95	8.94	8.70	0.15
21.40	8.68	8.44	0.17	24.00	**8.95**	**8.71**	0.16
21.45	8.69	8.45	0.17				
21.50	8.69	8.45	0.17				
21.55	8.70	8.46	0.17				
21.60	8.70	8.46	0.17				
21.65	8.71	8.47	0.17				
21.70	8.71	8.47	0.17				
21.75	8.72	8.48	0.17				
21.80	8.73	8.49	0.17				
21.85	8.73	8.49	0.17				
21.90	8.74	8.50	0.17				
21.95	8.74	8.50	0.17				
22.00	8.75	8.51	0.17				
22.05	8.75	8.51	0.16				
22.10	8.76	8.52	0.16				
22.15	8.76	8.52	0.16				
22.20	8.77	8.53	0.16				
22.25	8.77	8.53	0.16				
22.30	8.78	8.54	0.16				
22.35	8.79	8.54	0.16				
22.40	8.79	8.55	0.16				
22.45	8.80	8.56	0.16				
22.50	8.80	8.56	0.16				
22.55	8.81	8.57	0.16				
22.60	8.81	8.57	0.16				
22.65	8.82	8.58	0.16				
22.70	8.82	8.58	0.16				
22.75	8.83	8.59	0.16				
22.80	8.83	8.59	0.15				
22.85	8.84	8.60	0.15				
22.90	8.84	8.60	0.15				
22.95	8.85	8.61	0.15				
23.00	8.85	8.61	0.15				
23.05	8.86	8.62	0.15				
23.10	8.86	8.62	0.15				
23.15	8.87	8.63	0.15				
23.20	8.87	8.63	0.15				
23.25	8.88	8.64	0.15				
23.30	8.88	8.64	0.15				
23.35	8.89	8.65	0.15				

Summary for Link P1A: P1A

Inflow Area = 1.380 ac, 80.43% Impervious, Inflow Depth > 8.37" for 100YR CURRENT event
Inflow = 11.95 cfs @ 12.11 hrs, Volume= 0.962 af
Primary = 11.95 cfs @ 12.11 hrs, Volume= 0.962 af, Atten= 0%, Lag= 0.0 min
Routed to Link PPOI-1 : PPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link P1A: P1A



Hydrograph for Link P1A: P1A

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.10	0.00	0.10
0.05	0.00	0.00	0.00	2.65	0.10	0.00	0.10
0.10	0.00	0.00	0.00	2.70	0.10	0.00	0.10
0.15	0.00	0.00	0.00	2.75	0.10	0.00	0.10
0.20	0.00	0.00	0.00	2.80	0.10	0.00	0.10
0.25	0.00	0.00	0.00	2.85	0.10	0.00	0.10
0.30	0.00	0.00	0.00	2.90	0.10	0.00	0.10
0.35	0.00	0.00	0.00	2.95	0.11	0.00	0.11
0.40	0.00	0.00	0.00	3.00	0.11	0.00	0.11
0.45	0.00	0.00	0.00	3.05	0.11	0.00	0.11
0.50	0.00	0.00	0.00	3.10	0.11	0.00	0.11
0.55	0.01	0.00	0.01	3.15	0.11	0.00	0.11
0.60	0.01	0.00	0.01	3.20	0.11	0.00	0.11
0.65	0.02	0.00	0.02	3.25	0.11	0.00	0.11
0.70	0.02	0.00	0.02	3.30	0.11	0.00	0.11
0.75	0.02	0.00	0.02	3.35	0.11	0.00	0.11
0.80	0.03	0.00	0.03	3.40	0.11	0.00	0.11
0.85	0.03	0.00	0.03	3.45	0.12	0.00	0.12
0.90	0.03	0.00	0.03	3.50	0.12	0.00	0.12
0.95	0.04	0.00	0.04	3.55	0.12	0.00	0.12
1.00	0.04	0.00	0.04	3.60	0.12	0.00	0.12
1.05	0.04	0.00	0.04	3.65	0.12	0.00	0.12
1.10	0.05	0.00	0.05	3.70	0.12	0.00	0.12
1.15	0.05	0.00	0.05	3.75	0.12	0.00	0.12
1.20	0.05	0.00	0.05	3.80	0.12	0.00	0.12
1.25	0.05	0.00	0.05	3.85	0.12	0.00	0.12
1.30	0.06	0.00	0.06	3.90	0.12	0.00	0.12
1.35	0.06	0.00	0.06	3.95	0.12	0.00	0.12
1.40	0.06	0.00	0.06	4.00	0.13	0.00	0.13
1.45	0.06	0.00	0.06	4.05	0.13	0.00	0.13
1.50	0.06	0.00	0.06	4.10	0.13	0.00	0.13
1.55	0.07	0.00	0.07	4.15	0.13	0.00	0.13
1.60	0.07	0.00	0.07	4.20	0.13	0.00	0.13
1.65	0.07	0.00	0.07	4.25	0.13	0.00	0.13
1.70	0.07	0.00	0.07	4.30	0.13	0.00	0.13
1.75	0.07	0.00	0.07	4.35	0.13	0.00	0.13
1.80	0.08	0.00	0.08	4.40	0.13	0.00	0.13
1.85	0.08	0.00	0.08	4.45	0.13	0.00	0.13
1.90	0.08	0.00	0.08	4.50	0.13	0.00	0.13
1.95	0.08	0.00	0.08	4.55	0.14	0.00	0.14
2.00	0.08	0.00	0.08	4.60	0.14	0.00	0.14
2.05	0.08	0.00	0.08	4.65	0.14	0.00	0.14
2.10	0.08	0.00	0.08	4.70	0.14	0.00	0.14
2.15	0.09	0.00	0.09	4.75	0.14	0.00	0.14
2.20	0.09	0.00	0.09	4.80	0.14	0.00	0.14
2.25	0.09	0.00	0.09	4.85	0.14	0.00	0.14
2.30	0.09	0.00	0.09	4.90	0.14	0.00	0.14
2.35	0.09	0.00	0.09	4.95	0.14	0.00	0.14
2.40	0.09	0.00	0.09	5.00	0.14	0.00	0.14
2.45	0.09	0.00	0.09	5.05	0.14	0.00	0.14
2.50	0.10	0.00	0.10	5.10	0.15	0.00	0.15
2.55	0.10	0.00	0.10	5.15	0.15	0.00	0.15

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.15	0.00	0.15	7.80	0.25	0.00	0.25
5.25	0.15	0.00	0.15	7.85	0.25	0.00	0.25
5.30	0.15	0.00	0.15	7.90	0.25	0.00	0.25
5.35	0.15	0.00	0.15	7.95	0.26	0.00	0.26
5.40	0.15	0.00	0.15	8.00	0.26	0.00	0.26
5.45	0.15	0.00	0.15	8.05	0.26	0.00	0.26
5.50	0.15	0.00	0.15	8.10	0.26	0.00	0.26
5.55	0.15	0.00	0.15	8.15	0.27	0.00	0.27
5.60	0.15	0.00	0.15	8.20	0.27	0.00	0.27
5.65	0.16	0.00	0.16	8.25	0.27	0.00	0.27
5.70	0.16	0.00	0.16	8.30	0.27	0.00	0.27
5.75	0.16	0.00	0.16	8.35	0.28	0.00	0.28
5.80	0.16	0.00	0.16	8.40	0.28	0.00	0.28
5.85	0.16	0.00	0.16	8.45	0.28	0.00	0.28
5.90	0.16	0.00	0.16	8.50	0.28	0.00	0.28
5.95	0.16	0.00	0.16	8.55	0.29	0.00	0.29
6.00	0.16	0.00	0.16	8.60	0.29	0.00	0.29
6.05	0.16	0.00	0.16	8.65	0.29	0.00	0.29
6.10	0.17	0.00	0.17	8.70	0.29	0.00	0.29
6.15	0.17	0.00	0.17	8.75	0.30	0.00	0.30
6.20	0.17	0.00	0.17	8.80	0.30	0.00	0.30
6.25	0.17	0.00	0.17	8.85	0.30	0.00	0.30
6.30	0.17	0.00	0.17	8.90	0.30	0.00	0.30
6.35	0.18	0.00	0.18	8.95	0.31	0.00	0.31
6.40	0.18	0.00	0.18	9.00	0.31	0.00	0.31
6.45	0.18	0.00	0.18	9.05	0.32	0.00	0.32
6.50	0.18	0.00	0.18	9.10	0.32	0.00	0.32
6.55	0.19	0.00	0.19	9.15	0.33	0.00	0.33
6.60	0.19	0.00	0.19	9.20	0.34	0.00	0.34
6.65	0.19	0.00	0.19	9.25	0.35	0.00	0.35
6.70	0.19	0.00	0.19	9.30	0.36	0.00	0.36
6.75	0.20	0.00	0.20	9.35	0.37	0.00	0.37
6.80	0.20	0.00	0.20	9.40	0.37	0.00	0.37
6.85	0.20	0.00	0.20	9.45	0.38	0.00	0.38
6.90	0.20	0.00	0.20	9.50	0.39	0.00	0.39
6.95	0.21	0.00	0.21	9.55	0.40	0.00	0.40
7.00	0.21	0.00	0.21	9.60	0.41	0.00	0.41
7.05	0.21	0.00	0.21	9.65	0.42	0.00	0.42
7.10	0.21	0.00	0.21	9.70	0.43	0.00	0.43
7.15	0.22	0.00	0.22	9.75	0.44	0.00	0.44
7.20	0.22	0.00	0.22	9.80	0.44	0.00	0.44
7.25	0.22	0.00	0.22	9.85	0.45	0.00	0.45
7.30	0.22	0.00	0.22	9.90	0.46	0.00	0.46
7.35	0.23	0.00	0.23	9.95	0.47	0.00	0.47
7.40	0.23	0.00	0.23	10.00	0.48	0.00	0.48
7.45	0.23	0.00	0.23	10.05	0.49	0.00	0.49
7.50	0.23	0.00	0.23	10.10	0.50	0.00	0.50
7.55	0.24	0.00	0.24	10.15	0.51	0.00	0.51
7.60	0.24	0.00	0.24	10.20	0.52	0.00	0.52
7.65	0.24	0.00	0.24	10.25	0.53	0.00	0.53
7.70	0.24	0.00	0.24	10.30	0.53	0.00	0.53
7.75	0.25	0.00	0.25	10.35	0.55	0.00	0.55

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.55	0.00	0.55	13.00	1.29	0.00	1.29
10.45	0.56	0.00	0.56	13.05	1.19	0.00	1.19
10.50	0.57	0.00	0.57	13.10	1.13	0.00	1.13
10.55	0.60	0.00	0.60	13.15	1.06	0.00	1.06
10.60	0.63	0.00	0.63	13.20	1.02	0.00	1.02
10.65	0.66	0.00	0.66	13.25	0.96	0.00	0.96
10.70	0.69	0.00	0.69	13.30	0.93	0.00	0.93
10.75	0.73	0.00	0.73	13.35	0.87	0.00	0.87
10.80	0.75	0.00	0.75	13.40	0.84	0.00	0.84
10.85	0.79	0.00	0.79	13.45	0.79	0.00	0.79
10.90	0.82	0.00	0.82	13.50	0.76	0.00	0.76
10.95	0.86	0.00	0.86	13.55	0.71	0.00	0.71
11.00	0.89	0.00	0.89	13.60	0.68	0.00	0.68
11.05	0.95	0.00	0.95	13.65	0.66	0.00	0.66
11.10	1.00	0.00	1.00	13.70	0.64	0.00	0.64
11.15	1.07	0.00	1.07	13.75	0.63	0.00	0.63
11.20	1.12	0.00	1.12	13.80	0.62	0.00	0.62
11.25	1.19	0.00	1.19	13.85	0.60	0.00	0.60
11.30	1.24	0.00	1.24	13.90	0.59	0.00	0.59
11.35	1.32	0.00	1.32	13.95	0.58	0.00	0.58
11.40	1.37	0.00	1.37	14.00	0.57	0.00	0.57
11.45	1.43	0.00	1.43	14.05	0.56	0.00	0.56
11.50	1.47	0.00	1.47	14.10	0.55	0.00	0.55
11.55	1.87	0.00	1.87	14.15	0.54	0.00	0.54
11.60	2.12	0.00	2.12	14.20	0.53	0.00	0.53
11.65	2.28	0.00	2.28	14.25	0.52	0.00	0.52
11.70	2.36	0.00	2.36	14.30	0.51	0.00	0.51
11.75	2.82	0.00	2.82	14.35	0.50	0.00	0.50
11.80	3.12	0.00	3.12	14.40	0.49	0.00	0.49
11.85	3.84	0.00	3.84	14.45	0.48	0.00	0.48
11.90	4.28	0.00	4.28	14.50	0.47	0.00	0.47
11.95	6.02	0.00	6.02	14.55	0.46	0.00	0.46
12.00	7.11	0.00	7.11	14.60	0.45	0.00	0.45
12.05	10.03	0.00	10.03	14.65	0.44	0.00	0.44
12.10	**11.83**	0.00	**11.83**	14.70	0.43	0.00	0.43
12.15	**8.59**	0.00	**8.59**	14.75	0.42	0.00	0.42
12.20	6.39	0.00	6.39	14.80	0.42	0.00	0.42
12.25	5.02	0.00	5.02	14.85	0.40	0.00	0.40
12.30	4.37	0.00	4.37	14.90	0.40	0.00	0.40
12.35	3.70	0.00	3.70	14.95	0.38	0.00	0.38
12.40	3.32	0.00	3.32	15.00	0.38	0.00	0.38
12.45	3.08	0.00	3.08	15.05	0.37	0.00	0.37
12.50	2.95	0.00	2.95	15.10	0.36	0.00	0.36
12.55	2.48	0.00	2.48	15.15	0.35	0.00	0.35
12.60	2.18	0.00	2.18	15.20	0.35	0.00	0.35
12.65	1.99	0.00	1.99	15.25	0.35	0.00	0.35
12.70	1.88	0.00	1.88	15.30	0.34	0.00	0.34
12.75	1.75	0.00	1.75	15.35	0.34	0.00	0.34
12.80	1.66	0.00	1.66	15.40	0.34	0.00	0.34
12.85	1.55	0.00	1.55	15.45	0.33	0.00	0.33
12.90	1.47	0.00	1.47	15.50	0.33	0.00	0.33
12.95	1.36	0.00	1.36	15.55	0.33	0.00	0.33

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.33	0.00	0.33	18.20	0.20	0.00	0.20
15.65	0.32	0.00	0.32	18.25	0.20	0.00	0.20
15.70	0.32	0.00	0.32	18.30	0.20	0.00	0.20
15.75	0.32	0.00	0.32	18.35	0.20	0.00	0.20
15.80	0.32	0.00	0.32	18.40	0.20	0.00	0.20
15.85	0.31	0.00	0.31	18.45	0.20	0.00	0.20
15.90	0.31	0.00	0.31	18.50	0.20	0.00	0.20
15.95	0.31	0.00	0.31	18.55	0.19	0.00	0.19
16.00	0.31	0.00	0.31	18.60	0.19	0.00	0.19
16.05	0.30	0.00	0.30	18.65	0.19	0.00	0.19
16.10	0.30	0.00	0.30	18.70	0.19	0.00	0.19
16.15	0.30	0.00	0.30	18.75	0.19	0.00	0.19
16.20	0.30	0.00	0.30	18.80	0.19	0.00	0.19
16.25	0.29	0.00	0.29	18.85	0.19	0.00	0.19
16.30	0.29	0.00	0.29	18.90	0.19	0.00	0.19
16.35	0.29	0.00	0.29	18.95	0.19	0.00	0.19
16.40	0.29	0.00	0.29	19.00	0.19	0.00	0.19
16.45	0.28	0.00	0.28	19.05	0.19	0.00	0.19
16.50	0.28	0.00	0.28	19.10	0.19	0.00	0.19
16.55	0.28	0.00	0.28	19.15	0.19	0.00	0.19
16.60	0.28	0.00	0.28	19.20	0.19	0.00	0.19
16.65	0.27	0.00	0.27	19.25	0.19	0.00	0.19
16.70	0.27	0.00	0.27	19.30	0.19	0.00	0.19
16.75	0.27	0.00	0.27	19.35	0.18	0.00	0.18
16.80	0.27	0.00	0.27	19.40	0.18	0.00	0.18
16.85	0.26	0.00	0.26	19.45	0.18	0.00	0.18
16.90	0.26	0.00	0.26	19.50	0.18	0.00	0.18
16.95	0.26	0.00	0.26	19.55	0.18	0.00	0.18
17.00	0.26	0.00	0.26	19.60	0.18	0.00	0.18
17.05	0.25	0.00	0.25	19.65	0.18	0.00	0.18
17.10	0.25	0.00	0.25	19.70	0.18	0.00	0.18
17.15	0.25	0.00	0.25	19.75	0.18	0.00	0.18
17.20	0.25	0.00	0.25	19.80	0.18	0.00	0.18
17.25	0.24	0.00	0.24	19.85	0.18	0.00	0.18
17.30	0.24	0.00	0.24	19.90	0.18	0.00	0.18
17.35	0.24	0.00	0.24	19.95	0.18	0.00	0.18
17.40	0.24	0.00	0.24	20.00	0.18	0.00	0.18
17.45	0.23	0.00	0.23	20.05	0.18	0.00	0.18
17.50	0.23	0.00	0.23	20.10	0.18	0.00	0.18
17.55	0.23	0.00	0.23	20.15	0.17	0.00	0.17
17.60	0.23	0.00	0.23	20.20	0.17	0.00	0.17
17.65	0.22	0.00	0.22	20.25	0.17	0.00	0.17
17.70	0.22	0.00	0.22	20.30	0.17	0.00	0.17
17.75	0.22	0.00	0.22	20.35	0.17	0.00	0.17
17.80	0.22	0.00	0.22	20.40	0.17	0.00	0.17
17.85	0.21	0.00	0.21	20.45	0.17	0.00	0.17
17.90	0.21	0.00	0.21	20.50	0.17	0.00	0.17
17.95	0.21	0.00	0.21	20.55	0.17	0.00	0.17
18.00	0.21	0.00	0.21	20.60	0.17	0.00	0.17
18.05	0.20	0.00	0.20	20.65	0.17	0.00	0.17
18.10	0.20	0.00	0.20	20.70	0.17	0.00	0.17
18.15	0.20	0.00	0.20	20.75	0.17	0.00	0.17

Hydrograph for Link P1A: P1A (continued)

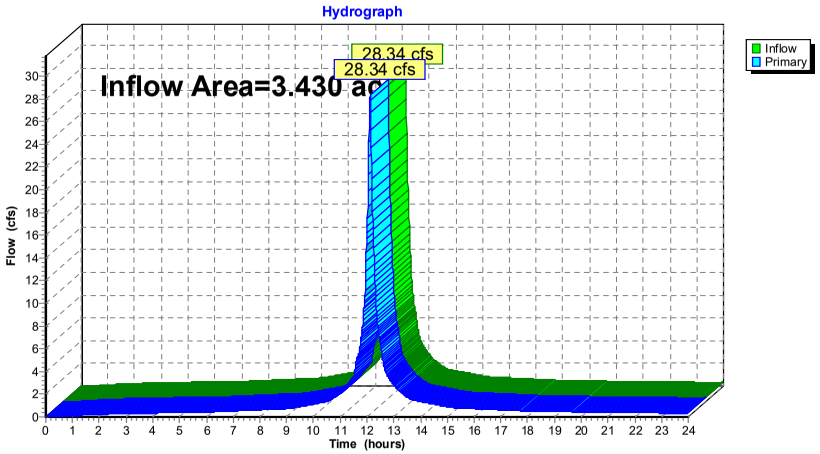
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.17	0.00	0.17	23.40	0.14	0.00	0.14
20.85	0.17	0.00	0.17	23.45	0.13	0.00	0.13
20.90	0.17	0.00	0.17	23.50	0.13	0.00	0.13
20.95	0.16	0.00	0.16	23.55	0.13	0.00	0.13
21.00	0.16	0.00	0.16	23.60	0.13	0.00	0.13
21.05	0.16	0.00	0.16	23.65	0.13	0.00	0.13
21.10	0.16	0.00	0.16	23.70	0.13	0.00	0.13
21.15	0.16	0.00	0.16	23.75	0.13	0.00	0.13
21.20	0.16	0.00	0.16	23.80	0.13	0.00	0.13
21.25	0.16	0.00	0.16	23.85	0.13	0.00	0.13
21.30	0.16	0.00	0.16	23.90	0.13	0.00	0.13
21.35	0.16	0.00	0.16	23.95	0.14	0.00	0.14
21.40	0.16	0.00	0.16	24.00	0.15	0.00	0.15
21.45	0.16	0.00	0.16				
21.50	0.16	0.00	0.16				
21.55	0.16	0.00	0.16				
21.60	0.16	0.00	0.16				
21.65	0.16	0.00	0.16				
21.70	0.16	0.00	0.16				
21.75	0.16	0.00	0.16				
21.80	0.16	0.00	0.16				
21.85	0.15	0.00	0.15				
21.90	0.15	0.00	0.15				
21.95	0.15	0.00	0.15				
22.00	0.15	0.00	0.15				
22.05	0.15	0.00	0.15				
22.10	0.15	0.00	0.15				
22.15	0.15	0.00	0.15				
22.20	0.15	0.00	0.15				
22.25	0.15	0.00	0.15				
22.30	0.15	0.00	0.15				
22.35	0.15	0.00	0.15				
22.40	0.15	0.00	0.15				
22.45	0.15	0.00	0.15				
22.50	0.15	0.00	0.15				
22.55	0.15	0.00	0.15				
22.60	0.15	0.00	0.15				
22.65	0.14	0.00	0.14				
22.70	0.14	0.00	0.14				
22.75	0.14	0.00	0.14				
22.80	0.14	0.00	0.14				
22.85	0.14	0.00	0.14				
22.90	0.14	0.00	0.14				
22.95	0.14	0.00	0.14				
23.00	0.14	0.00	0.14				
23.05	0.14	0.00	0.14				
23.10	0.14	0.00	0.14				
23.15	0.14	0.00	0.14				
23.20	0.14	0.00	0.14				
23.25	0.14	0.00	0.14				
23.30	0.14	0.00	0.14				
23.35	0.14	0.00	0.14				

Summary for Link P1B: P1B

Inflow Area = 3.430 ac, 82.22% Impervious, Inflow Depth > 8.07" for 100YR CURRENT event
Inflow = 28.34 cfs @ 12.12 hrs, Volume= 2.307 af
Primary = 28.34 cfs @ 12.12 hrs, Volume= 2.307 af, Atten= 0%, Lag= 0.0 min
Routed to Link PPOI-1 : PPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link P1B: P1B



Hydrograph for Link P1B: P1B

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.26	0.00	0.26
0.05	0.00	0.00	0.00	2.65	0.26	0.00	0.26
0.10	0.00	0.00	0.00	2.70	0.27	0.00	0.27
0.15	0.00	0.00	0.00	2.75	0.27	0.00	0.27
0.20	0.00	0.00	0.00	2.80	0.27	0.00	0.27
0.25	0.00	0.00	0.00	2.85	0.28	0.00	0.28
0.30	0.00	0.00	0.00	2.90	0.28	0.00	0.28
0.35	0.00	0.00	0.00	2.95	0.28	0.00	0.28
0.40	0.00	0.00	0.00	3.00	0.29	0.00	0.29
0.45	0.00	0.00	0.00	3.05	0.29	0.00	0.29
0.50	0.00	0.00	0.00	3.10	0.29	0.00	0.29
0.55	0.01	0.00	0.01	3.15	0.29	0.00	0.29
0.60	0.02	0.00	0.02	3.20	0.30	0.00	0.30
0.65	0.03	0.00	0.03	3.25	0.30	0.00	0.30
0.70	0.04	0.00	0.04	3.30	0.30	0.00	0.30
0.75	0.06	0.00	0.06	3.35	0.30	0.00	0.30
0.80	0.06	0.00	0.06	3.40	0.31	0.00	0.31
0.85	0.07	0.00	0.07	3.45	0.31	0.00	0.31
0.90	0.08	0.00	0.08	3.50	0.31	0.00	0.31
0.95	0.09	0.00	0.09	3.55	0.31	0.00	0.31
1.00	0.10	0.00	0.10	3.60	0.32	0.00	0.32
1.05	0.11	0.00	0.11	3.65	0.32	0.00	0.32
1.10	0.12	0.00	0.12	3.70	0.32	0.00	0.32
1.15	0.12	0.00	0.12	3.75	0.32	0.00	0.32
1.20	0.13	0.00	0.13	3.80	0.32	0.00	0.32
1.25	0.14	0.00	0.14	3.85	0.33	0.00	0.33
1.30	0.14	0.00	0.14	3.90	0.33	0.00	0.33
1.35	0.15	0.00	0.15	3.95	0.33	0.00	0.33
1.40	0.16	0.00	0.16	4.00	0.33	0.00	0.33
1.45	0.16	0.00	0.16	4.05	0.34	0.00	0.34
1.50	0.17	0.00	0.17	4.10	0.34	0.00	0.34
1.55	0.18	0.00	0.18	4.15	0.34	0.00	0.34
1.60	0.18	0.00	0.18	4.20	0.34	0.00	0.34
1.65	0.19	0.00	0.19	4.25	0.34	0.00	0.34
1.70	0.19	0.00	0.19	4.30	0.35	0.00	0.35
1.75	0.20	0.00	0.20	4.35	0.35	0.00	0.35
1.80	0.20	0.00	0.20	4.40	0.35	0.00	0.35
1.85	0.20	0.00	0.20	4.45	0.35	0.00	0.35
1.90	0.21	0.00	0.21	4.50	0.35	0.00	0.35
1.95	0.21	0.00	0.21	4.55	0.36	0.00	0.36
2.00	0.22	0.00	0.22	4.60	0.36	0.00	0.36
2.05	0.22	0.00	0.22	4.65	0.36	0.00	0.36
2.10	0.23	0.00	0.23	4.70	0.36	0.00	0.36
2.15	0.23	0.00	0.23	4.75	0.36	0.00	0.36
2.20	0.23	0.00	0.23	4.80	0.37	0.00	0.37
2.25	0.24	0.00	0.24	4.85	0.37	0.00	0.37
2.30	0.24	0.00	0.24	4.90	0.37	0.00	0.37
2.35	0.25	0.00	0.25	4.95	0.37	0.00	0.37
2.40	0.25	0.00	0.25	5.00	0.37	0.00	0.37
2.45	0.25	0.00	0.25	5.05	0.38	0.00	0.38
2.50	0.25	0.00	0.25	5.10	0.38	0.00	0.38
2.55	0.26	0.00	0.26	5.15	0.38	0.00	0.38

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.38	0.00	0.38	7.80	0.60	0.00	0.60
5.25	0.38	0.00	0.38	7.85	0.61	0.00	0.61
5.30	0.38	0.00	0.38	7.90	0.61	0.00	0.61
5.35	0.39	0.00	0.39	7.95	0.62	0.00	0.62
5.40	0.39	0.00	0.39	8.00	0.63	0.00	0.63
5.45	0.39	0.00	0.39	8.05	0.63	0.00	0.63
5.50	0.39	0.00	0.39	8.10	0.64	0.00	0.64
5.55	0.39	0.00	0.39	8.15	0.64	0.00	0.64
5.60	0.39	0.00	0.39	8.20	0.65	0.00	0.65
5.65	0.40	0.00	0.40	8.25	0.65	0.00	0.65
5.70	0.40	0.00	0.40	8.30	0.66	0.00	0.66
5.75	0.40	0.00	0.40	8.35	0.66	0.00	0.66
5.80	0.40	0.00	0.40	8.40	0.67	0.00	0.67
5.85	0.40	0.00	0.40	8.45	0.67	0.00	0.67
5.90	0.41	0.00	0.41	8.50	0.68	0.00	0.68
5.95	0.41	0.00	0.41	8.55	0.69	0.00	0.69
6.00	0.41	0.00	0.41	8.60	0.69	0.00	0.69
6.05	0.41	0.00	0.41	8.65	0.70	0.00	0.70
6.10	0.42	0.00	0.42	8.70	0.70	0.00	0.70
6.15	0.42	0.00	0.42	8.75	0.71	0.00	0.71
6.20	0.43	0.00	0.43	8.80	0.71	0.00	0.71
6.25	0.43	0.00	0.43	8.85	0.72	0.00	0.72
6.30	0.44	0.00	0.44	8.90	0.72	0.00	0.72
6.35	0.44	0.00	0.44	8.95	0.73	0.00	0.73
6.40	0.45	0.00	0.45	9.00	0.74	0.00	0.74
6.45	0.45	0.00	0.45	9.05	0.75	0.00	0.75
6.50	0.46	0.00	0.46	9.10	0.76	0.00	0.76
6.55	0.47	0.00	0.47	9.15	0.78	0.00	0.78
6.60	0.47	0.00	0.47	9.20	0.80	0.00	0.80
6.65	0.48	0.00	0.48	9.25	0.82	0.00	0.82
6.70	0.48	0.00	0.48	9.30	0.84	0.00	0.84
6.75	0.49	0.00	0.49	9.35	0.86	0.00	0.86
6.80	0.49	0.00	0.49	9.40	0.88	0.00	0.88
6.85	0.50	0.00	0.50	9.45	0.90	0.00	0.90
6.90	0.50	0.00	0.50	9.50	0.92	0.00	0.92
6.95	0.51	0.00	0.51	9.55	0.94	0.00	0.94
7.00	0.52	0.00	0.52	9.60	0.96	0.00	0.96
7.05	0.52	0.00	0.52	9.65	0.99	0.00	0.99
7.10	0.53	0.00	0.53	9.70	1.00	0.00	1.00
7.15	0.53	0.00	0.53	9.75	1.03	0.00	1.03
7.20	0.54	0.00	0.54	9.80	1.05	0.00	1.05
7.25	0.54	0.00	0.54	9.85	1.07	0.00	1.07
7.30	0.55	0.00	0.55	9.90	1.09	0.00	1.09
7.35	0.55	0.00	0.55	9.95	1.11	0.00	1.11
7.40	0.56	0.00	0.56	10.00	1.13	0.00	1.13
7.45	0.57	0.00	0.57	10.05	1.15	0.00	1.15
7.50	0.57	0.00	0.57	10.10	1.17	0.00	1.17
7.55	0.58	0.00	0.58	10.15	1.20	0.00	1.20
7.60	0.58	0.00	0.58	10.20	1.22	0.00	1.22
7.65	0.59	0.00	0.59	10.25	1.24	0.00	1.24
7.70	0.59	0.00	0.59	10.30	1.26	0.00	1.26
7.75	0.60	0.00	0.60	10.35	1.28	0.00	1.28

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	1.30	0.00	1.30	13.00	2.83	0.00	2.83
10.45	1.32	0.00	1.32	13.05	2.68	0.00	2.68
10.50	1.35	0.00	1.35	13.10	2.52	0.00	2.52
10.55	1.40	0.00	1.40	13.15	2.39	0.00	2.39
10.60	1.46	0.00	1.46	13.20	2.29	0.00	2.29
10.65	1.53	0.00	1.53	13.25	2.19	0.00	2.19
10.70	1.61	0.00	1.61	13.30	2.10	0.00	2.10
10.75	1.69	0.00	1.69	13.35	2.02	0.00	2.02
10.80	1.77	0.00	1.77	13.40	1.93	0.00	1.93
10.85	1.85	0.00	1.85	13.45	1.85	0.00	1.85
10.90	1.93	0.00	1.93	13.50	1.76	0.00	1.76
10.95	2.01	0.00	2.01	13.55	1.68	0.00	1.68
11.00	2.09	0.00	2.09	13.60	1.59	0.00	1.59
11.05	2.20	0.00	2.20	13.65	1.54	0.00	1.54
11.10	2.33	0.00	2.33	13.70	1.50	0.00	1.50
11.15	2.48	0.00	2.48	13.75	1.46	0.00	1.46
11.20	2.62	0.00	2.62	13.80	1.44	0.00	1.44
11.25	2.77	0.00	2.77	13.85	1.41	0.00	1.41
11.30	2.92	0.00	2.92	13.90	1.39	0.00	1.39
11.35	3.08	0.00	3.08	13.95	1.37	0.00	1.37
11.40	3.23	0.00	3.23	14.00	1.35	0.00	1.35
11.45	3.37	0.00	3.37	14.05	1.32	0.00	1.32
11.50	3.50	0.00	3.50	14.10	1.30	0.00	1.30
11.55	4.06	0.00	4.06	14.15	1.28	0.00	1.28
11.60	4.82	0.00	4.82	14.20	1.26	0.00	1.26
11.65	5.30	0.00	5.30	14.25	1.24	0.00	1.24
11.70	5.63	0.00	5.63	14.30	1.21	0.00	1.21
11.75	6.36	0.00	6.36	14.35	1.19	0.00	1.19
11.80	7.27	0.00	7.27	14.40	1.17	0.00	1.17
11.85	8.53	0.00	8.53	14.45	1.15	0.00	1.15
11.90	9.96	0.00	9.96	14.50	1.13	0.00	1.13
11.95	12.78	0.00	12.78	14.55	1.10	0.00	1.10
12.00	16.26	0.00	16.26	14.60	1.08	0.00	1.08
12.05	21.39	0.00	21.39	14.65	1.06	0.00	1.06
12.10	**27.35**	0.00	**27.35**	14.70	1.04	0.00	1.04
12.15	**25.24**	0.00	**25.24**	14.75	1.01	0.00	1.01
12.20	18.94	0.00	18.94	14.80	0.99	0.00	0.99
12.25	14.83	0.00	14.83	14.85	0.97	0.00	0.97
12.30	11.85	0.00	11.85	14.90	0.95	0.00	0.95
12.35	9.65	0.00	9.65	14.95	0.93	0.00	0.93
12.40	7.95	0.00	7.95	15.00	0.90	0.00	0.90
12.45	7.03	0.00	7.03	15.05	0.88	0.00	0.88
12.50	6.47	0.00	6.47	15.10	0.86	0.00	0.86
12.55	5.68	0.00	5.68	15.15	0.85	0.00	0.85
12.60	4.80	0.00	4.80	15.20	0.83	0.00	0.83
12.65	4.28	0.00	4.28	15.25	0.83	0.00	0.83
12.70	3.95	0.00	3.95	15.30	0.82	0.00	0.82
12.75	3.70	0.00	3.70	15.35	0.81	0.00	0.81
12.80	3.50	0.00	3.50	15.40	0.81	0.00	0.81
12.85	3.32	0.00	3.32	15.45	0.80	0.00	0.80
12.90	3.16	0.00	3.16	15.50	0.79	0.00	0.79
12.95	2.99	0.00	2.99	15.55	0.79	0.00	0.79

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.78	0.00	0.78	18.20	0.48	0.00	0.48
15.65	0.78	0.00	0.78	18.25	0.48	0.00	0.48
15.70	0.77	0.00	0.77	18.30	0.48	0.00	0.48
15.75	0.76	0.00	0.76	18.35	0.48	0.00	0.48
15.80	0.76	0.00	0.76	18.40	0.47	0.00	0.47
15.85	0.75	0.00	0.75	18.45	0.47	0.00	0.47
15.90	0.75	0.00	0.75	18.50	0.47	0.00	0.47
15.95	0.74	0.00	0.74	18.55	0.47	0.00	0.47
16.00	0.73	0.00	0.73	18.60	0.47	0.00	0.47
16.05	0.73	0.00	0.73	18.65	0.47	0.00	0.47
16.10	0.72	0.00	0.72	18.70	0.46	0.00	0.46
16.15	0.72	0.00	0.72	18.75	0.46	0.00	0.46
16.20	0.71	0.00	0.71	18.80	0.46	0.00	0.46
16.25	0.71	0.00	0.71	18.85	0.46	0.00	0.46
16.30	0.70	0.00	0.70	18.90	0.46	0.00	0.46
16.35	0.69	0.00	0.69	18.95	0.46	0.00	0.46
16.40	0.69	0.00	0.69	19.00	0.46	0.00	0.46
16.45	0.68	0.00	0.68	19.05	0.45	0.00	0.45
16.50	0.68	0.00	0.68	19.10	0.45	0.00	0.45
16.55	0.67	0.00	0.67	19.15	0.45	0.00	0.45
16.60	0.66	0.00	0.66	19.20	0.45	0.00	0.45
16.65	0.66	0.00	0.66	19.25	0.45	0.00	0.45
16.70	0.65	0.00	0.65	19.30	0.45	0.00	0.45
16.75	0.65	0.00	0.65	19.35	0.45	0.00	0.45
16.80	0.64	0.00	0.64	19.40	0.44	0.00	0.44
16.85	0.63	0.00	0.63	19.45	0.44	0.00	0.44
16.90	0.63	0.00	0.63	19.50	0.44	0.00	0.44
16.95	0.62	0.00	0.62	19.55	0.44	0.00	0.44
17.00	0.62	0.00	0.62	19.60	0.44	0.00	0.44
17.05	0.61	0.00	0.61	19.65	0.44	0.00	0.44
17.10	0.61	0.00	0.61	19.70	0.44	0.00	0.44
17.15	0.60	0.00	0.60	19.75	0.43	0.00	0.43
17.20	0.59	0.00	0.59	19.80	0.43	0.00	0.43
17.25	0.59	0.00	0.59	19.85	0.43	0.00	0.43
17.30	0.58	0.00	0.58	19.90	0.43	0.00	0.43
17.35	0.58	0.00	0.58	19.95	0.43	0.00	0.43
17.40	0.57	0.00	0.57	20.00	0.43	0.00	0.43
17.45	0.56	0.00	0.56	20.05	0.43	0.00	0.43
17.50	0.56	0.00	0.56	20.10	0.42	0.00	0.42
17.55	0.55	0.00	0.55	20.15	0.42	0.00	0.42
17.60	0.55	0.00	0.55	20.20	0.42	0.00	0.42
17.65	0.54	0.00	0.54	20.25	0.42	0.00	0.42
17.70	0.54	0.00	0.54	20.30	0.42	0.00	0.42
17.75	0.53	0.00	0.53	20.35	0.42	0.00	0.42
17.80	0.52	0.00	0.52	20.40	0.41	0.00	0.41
17.85	0.52	0.00	0.52	20.45	0.41	0.00	0.41
17.90	0.51	0.00	0.51	20.50	0.41	0.00	0.41
17.95	0.51	0.00	0.51	20.55	0.41	0.00	0.41
18.00	0.50	0.00	0.50	20.60	0.41	0.00	0.41
18.05	0.49	0.00	0.49	20.65	0.41	0.00	0.41
18.10	0.49	0.00	0.49	20.70	0.41	0.00	0.41
18.15	0.48	0.00	0.48	20.75	0.40	0.00	0.40

Hydrograph for Link P1B: P1B (continued)

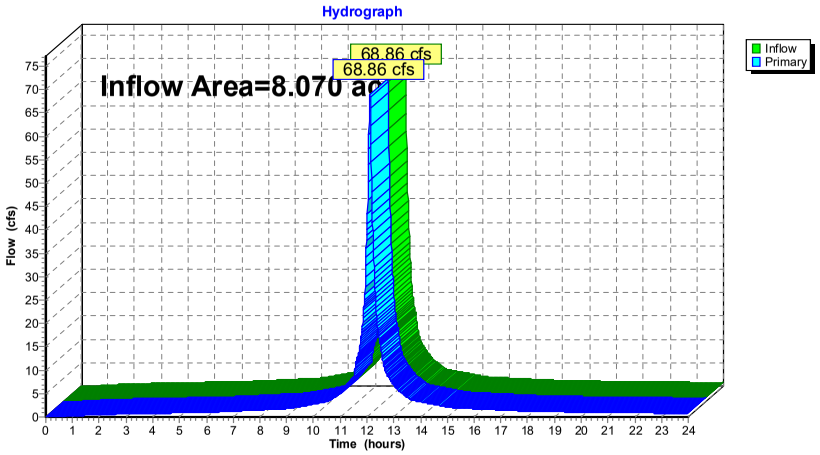
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.40	0.00	0.40	23.40	0.33	0.00	0.33
20.85	0.40	0.00	0.40	23.45	0.33	0.00	0.33
20.90	0.40	0.00	0.40	23.50	0.32	0.00	0.32
20.95	0.40	0.00	0.40	23.55	0.32	0.00	0.32
21.00	0.40	0.00	0.40	23.60	0.32	0.00	0.32
21.05	0.40	0.00	0.40	23.65	0.32	0.00	0.32
21.10	0.39	0.00	0.39	23.70	0.32	0.00	0.32
21.15	0.39	0.00	0.39	23.75	0.32	0.00	0.32
21.20	0.39	0.00	0.39	23.80	0.31	0.00	0.31
21.25	0.39	0.00	0.39	23.85	0.31	0.00	0.31
21.30	0.39	0.00	0.39	23.90	0.31	0.00	0.31
21.35	0.39	0.00	0.39	23.95	0.33	0.00	0.33
21.40	0.39	0.00	0.39	24.00	0.35	0.00	0.35
21.45	0.38	0.00	0.38				
21.50	0.38	0.00	0.38				
21.55	0.38	0.00	0.38				
21.60	0.38	0.00	0.38				
21.65	0.38	0.00	0.38				
21.70	0.38	0.00	0.38				
21.75	0.38	0.00	0.38				
21.80	0.37	0.00	0.37				
21.85	0.37	0.00	0.37				
21.90	0.37	0.00	0.37				
21.95	0.37	0.00	0.37				
22.00	0.37	0.00	0.37				
22.05	0.37	0.00	0.37				
22.10	0.36	0.00	0.36				
22.15	0.36	0.00	0.36				
22.20	0.36	0.00	0.36				
22.25	0.36	0.00	0.36				
22.30	0.36	0.00	0.36				
22.35	0.36	0.00	0.36				
22.40	0.36	0.00	0.36				
22.45	0.35	0.00	0.35				
22.50	0.35	0.00	0.35				
22.55	0.35	0.00	0.35				
22.60	0.35	0.00	0.35				
22.65	0.35	0.00	0.35				
22.70	0.35	0.00	0.35				
22.75	0.35	0.00	0.35				
22.80	0.34	0.00	0.34				
22.85	0.34	0.00	0.34				
22.90	0.34	0.00	0.34				
22.95	0.34	0.00	0.34				
23.00	0.34	0.00	0.34				
23.05	0.34	0.00	0.34				
23.10	0.34	0.00	0.34				
23.15	0.33	0.00	0.33				
23.20	0.33	0.00	0.33				
23.25	0.33	0.00	0.33				
23.30	0.33	0.00	0.33				
23.35	0.33	0.00	0.33				

Summary for Link PPOI-1: PPOI-1

Inflow Area = 8.070 ac, 81.04% Impervious, Inflow Depth > 8.24" for 100YR CURRENT event
Inflow = 68.86 cfs @ 12.11 hrs, Volume= 5.541 af
Primary = 68.86 cfs @ 12.11 hrs, Volume= 5.541 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link PPOI-1: PPOI-1



Hydrograph for Link PPOI-1: PPOI-1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.59	0.00	0.59
0.05	0.00	0.00	0.00	2.65	0.59	0.00	0.59
0.10	0.00	0.00	0.00	2.70	0.60	0.00	0.60
0.15	0.00	0.00	0.00	2.75	0.61	0.00	0.61
0.20	0.00	0.00	0.00	2.80	0.62	0.00	0.62
0.25	0.00	0.00	0.00	2.85	0.62	0.00	0.62
0.30	0.00	0.00	0.00	2.90	0.63	0.00	0.63
0.35	0.00	0.00	0.00	2.95	0.63	0.00	0.63
0.40	0.00	0.00	0.00	3.00	0.64	0.00	0.64
0.45	0.00	0.00	0.00	3.05	0.65	0.00	0.65
0.50	0.01	0.00	0.01	3.10	0.65	0.00	0.65
0.55	0.03	0.00	0.03	3.15	0.66	0.00	0.66
0.60	0.06	0.00	0.06	3.20	0.66	0.00	0.66
0.65	0.08	0.00	0.08	3.25	0.67	0.00	0.67
0.70	0.10	0.00	0.10	3.30	0.68	0.00	0.68
0.75	0.13	0.00	0.13	3.35	0.68	0.00	0.68
0.80	0.15	0.00	0.15	3.40	0.69	0.00	0.69
0.85	0.17	0.00	0.17	3.45	0.69	0.00	0.69
0.90	0.19	0.00	0.19	3.50	0.70	0.00	0.70
0.95	0.21	0.00	0.21	3.55	0.71	0.00	0.71
1.00	0.23	0.00	0.23	3.60	0.71	0.00	0.71
1.05	0.25	0.00	0.25	3.65	0.72	0.00	0.72
1.10	0.27	0.00	0.27	3.70	0.72	0.00	0.72
1.15	0.28	0.00	0.28	3.75	0.73	0.00	0.73
1.20	0.30	0.00	0.30	3.80	0.73	0.00	0.73
1.25	0.31	0.00	0.31	3.85	0.74	0.00	0.74
1.30	0.33	0.00	0.33	3.90	0.74	0.00	0.74
1.35	0.34	0.00	0.34	3.95	0.75	0.00	0.75
1.40	0.36	0.00	0.36	4.00	0.75	0.00	0.75
1.45	0.37	0.00	0.37	4.05	0.76	0.00	0.76
1.50	0.38	0.00	0.38	4.10	0.76	0.00	0.76
1.55	0.40	0.00	0.40	4.15	0.77	0.00	0.77
1.60	0.41	0.00	0.41	4.20	0.78	0.00	0.78
1.65	0.42	0.00	0.42	4.25	0.78	0.00	0.78
1.70	0.43	0.00	0.43	4.30	0.79	0.00	0.79
1.75	0.44	0.00	0.44	4.35	0.79	0.00	0.79
1.80	0.45	0.00	0.45	4.40	0.80	0.00	0.80
1.85	0.46	0.00	0.46	4.45	0.80	0.00	0.80
1.90	0.47	0.00	0.47	4.50	0.81	0.00	0.81
1.95	0.48	0.00	0.48	4.55	0.81	0.00	0.81
2.00	0.49	0.00	0.49	4.60	0.82	0.00	0.82
2.05	0.50	0.00	0.50	4.65	0.82	0.00	0.82
2.10	0.51	0.00	0.51	4.70	0.83	0.00	0.83
2.15	0.52	0.00	0.52	4.75	0.83	0.00	0.83
2.20	0.53	0.00	0.53	4.80	0.84	0.00	0.84
2.25	0.53	0.00	0.53	4.85	0.84	0.00	0.84
2.30	0.54	0.00	0.54	4.90	0.85	0.00	0.85
2.35	0.55	0.00	0.55	4.95	0.85	0.00	0.85
2.40	0.56	0.00	0.56	5.00	0.86	0.00	0.86
2.45	0.57	0.00	0.57	5.05	0.86	0.00	0.86
2.50	0.57	0.00	0.57	5.10	0.87	0.00	0.87
2.55	0.58	0.00	0.58	5.15	0.87	0.00	0.87

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.88	0.00	0.88	7.80	1.43	0.00	1.43
5.25	0.88	0.00	0.88	7.85	1.45	0.00	1.45
5.30	0.89	0.00	0.89	7.90	1.47	0.00	1.47
5.35	0.89	0.00	0.89	7.95	1.48	0.00	1.48
5.40	0.90	0.00	0.90	8.00	1.50	0.00	1.50
5.45	0.90	0.00	0.90	8.05	1.51	0.00	1.51
5.50	0.91	0.00	0.91	8.10	1.52	0.00	1.52
5.55	0.91	0.00	0.91	8.15	1.54	0.00	1.54
5.60	0.91	0.00	0.91	8.20	1.55	0.00	1.55
5.65	0.92	0.00	0.92	8.25	1.56	0.00	1.56
5.70	0.92	0.00	0.92	8.30	1.58	0.00	1.58
5.75	0.93	0.00	0.93	8.35	1.59	0.00	1.59
5.80	0.93	0.00	0.93	8.40	1.60	0.00	1.60
5.85	0.94	0.00	0.94	8.45	1.62	0.00	1.62
5.90	0.94	0.00	0.94	8.50	1.64	0.00	1.64
5.95	0.95	0.00	0.95	8.55	1.65	0.00	1.65
6.00	0.95	0.00	0.95	8.60	1.66	0.00	1.66
6.05	0.96	0.00	0.96	8.65	1.68	0.00	1.68
6.10	0.97	0.00	0.97	8.70	1.69	0.00	1.69
6.15	0.99	0.00	0.99	8.75	1.71	0.00	1.71
6.20	1.00	0.00	1.00	8.80	1.72	0.00	1.72
6.25	1.01	0.00	1.01	8.85	1.73	0.00	1.73
6.30	1.02	0.00	1.02	8.90	1.75	0.00	1.75
6.35	1.04	0.00	1.04	8.95	1.76	0.00	1.76
6.40	1.05	0.00	1.05	9.00	1.78	0.00	1.78
6.45	1.07	0.00	1.07	9.05	1.81	0.00	1.81
6.50	1.08	0.00	1.08	9.10	1.85	0.00	1.85
6.55	1.09	0.00	1.09	9.15	1.90	0.00	1.90
6.60	1.11	0.00	1.11	9.20	1.94	0.00	1.94
6.65	1.12	0.00	1.12	9.25	2.00	0.00	2.00
6.70	1.13	0.00	1.13	9.30	2.04	0.00	2.04
6.75	1.15	0.00	1.15	9.35	2.10	0.00	2.10
6.80	1.16	0.00	1.16	9.40	2.14	0.00	2.14
6.85	1.17	0.00	1.17	9.45	2.19	0.00	2.19
6.90	1.19	0.00	1.19	9.50	2.24	0.00	2.24
6.95	1.20	0.00	1.20	9.55	2.29	0.00	2.29
7.00	1.22	0.00	1.22	9.60	2.34	0.00	2.34
7.05	1.23	0.00	1.23	9.65	2.40	0.00	2.40
7.10	1.24	0.00	1.24	9.70	2.44	0.00	2.44
7.15	1.26	0.00	1.26	9.75	2.50	0.00	2.50
7.20	1.27	0.00	1.27	9.80	2.54	0.00	2.54
7.25	1.28	0.00	1.28	9.85	2.60	0.00	2.60
7.30	1.30	0.00	1.30	9.90	2.65	0.00	2.65
7.35	1.31	0.00	1.31	9.95	2.70	0.00	2.70
7.40	1.33	0.00	1.33	10.00	2.75	0.00	2.75
7.45	1.34	0.00	1.34	10.05	2.81	0.00	2.81
7.50	1.35	0.00	1.35	10.10	2.85	0.00	2.85
7.55	1.37	0.00	1.37	10.15	2.91	0.00	2.91
7.60	1.38	0.00	1.38	10.20	2.96	0.00	2.96
7.65	1.39	0.00	1.39	10.25	3.02	0.00	3.02
7.70	1.41	0.00	1.41	10.30	3.06	0.00	3.06
7.75	1.42	0.00	1.42	10.35	3.12	0.00	3.12

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	3.17	0.00	3.17	13.00	6.89	0.00	6.89
10.45	3.23	0.00	3.23	13.05	6.46	0.00	6.46
10.50	3.28	0.00	3.28	13.10	6.09	0.00	6.09
10.55	3.42	0.00	3.42	13.15	5.78	0.00	5.78
10.60	3.57	0.00	3.57	13.20	5.54	0.00	5.54
10.65	3.75	0.00	3.75	13.25	5.29	0.00	5.29
10.70	3.92	0.00	3.92	13.30	5.08	0.00	5.08
10.75	4.13	0.00	4.13	13.35	4.85	0.00	4.85
10.80	4.31	0.00	4.31	13.40	4.65	0.00	4.65
10.85	4.52	0.00	4.52	13.45	4.43	0.00	4.43
10.90	4.70	0.00	4.70	13.50	4.24	0.00	4.24
10.95	4.91	0.00	4.91	13.55	4.02	0.00	4.02
11.00	5.09	0.00	5.09	13.60	3.82	0.00	3.82
11.05	5.40	0.00	5.40	13.65	3.69	0.00	3.69
11.10	5.70	0.00	5.70	13.70	3.60	0.00	3.60
11.15	6.07	0.00	6.07	13.75	3.52	0.00	3.52
11.20	6.41	0.00	6.41	13.80	3.46	0.00	3.46
11.25	6.79	0.00	6.79	13.85	3.40	0.00	3.40
11.30	7.14	0.00	7.14	13.90	3.35	0.00	3.35
11.35	7.53	0.00	7.53	13.95	3.29	0.00	3.29
11.40	7.88	0.00	7.88	14.00	3.23	0.00	3.23
11.45	8.22	0.00	8.22	14.05	3.17	0.00	3.17
11.50	8.51	0.00	8.51	14.10	3.12	0.00	3.12
11.55	10.14	0.00	10.14	14.15	3.07	0.00	3.07
11.60	11.91	0.00	11.91	14.20	3.02	0.00	3.02
11.65	13.01	0.00	13.01	14.25	2.96	0.00	2.96
11.70	13.72	0.00	13.72	14.30	2.91	0.00	2.91
11.75	15.73	0.00	15.73	14.35	2.85	0.00	2.85
11.80	17.81	0.00	17.81	14.40	2.80	0.00	2.80
11.85	21.21	0.00	21.21	14.45	2.74	0.00	2.74
11.90	24.46	0.00	24.46	14.50	2.70	0.00	2.70
11.95	32.23	0.00	32.23	14.55	2.64	0.00	2.64
12.00	40.16	0.00	40.16	14.60	2.59	0.00	2.59
12.05	53.95	0.00	53.95	14.65	2.53	0.00	2.53
12.10	**67.39**	0.00	**67.39**	14.70	2.48	0.00	2.48
12.15	**58.23**	0.00	**58.23**	14.75	2.42	0.00	2.42
12.20	43.37	0.00	43.37	14.80	2.38	0.00	2.38
12.25	33.75	0.00	33.75	14.85	2.32	0.00	2.32
12.30	27.35	0.00	27.35	14.90	2.27	0.00	2.27
12.35	22.42	0.00	22.42	14.95	2.21	0.00	2.21
12.40	18.84	0.00	18.84	15.00	2.16	0.00	2.16
12.45	16.86	0.00	16.86	15.05	2.10	0.00	2.10
12.50	15.71	0.00	15.71	15.10	2.06	0.00	2.06
12.55	13.60	0.00	13.60	15.15	2.02	0.00	2.02
12.60	11.57	0.00	11.57	15.20	2.00	0.00	2.00
12.65	10.37	0.00	10.37	15.25	1.98	0.00	1.98
12.70	9.65	0.00	9.65	15.30	1.96	0.00	1.96
12.75	9.03	0.00	9.03	15.35	1.95	0.00	1.95
12.80	8.57	0.00	8.57	15.40	1.93	0.00	1.93
12.85	8.10	0.00	8.10	15.45	1.92	0.00	1.92
12.90	7.70	0.00	7.70	15.50	1.90	0.00	1.90
12.95	7.26	0.00	7.26	15.55	1.89	0.00	1.89

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	1.88	0.00	1.88	18.20	1.15	0.00	1.15
15.65	1.86	0.00	1.86	18.25	1.15	0.00	1.15
15.70	1.84	0.00	1.84	18.30	1.14	0.00	1.14
15.75	1.83	0.00	1.83	18.35	1.14	0.00	1.14
15.80	1.81	0.00	1.81	18.40	1.13	0.00	1.13
15.85	1.80	0.00	1.80	18.45	1.13	0.00	1.13
15.90	1.79	0.00	1.79	18.50	1.13	0.00	1.13
15.95	1.77	0.00	1.77	18.55	1.12	0.00	1.12
16.00	1.76	0.00	1.76	18.60	1.12	0.00	1.12
16.05	1.74	0.00	1.74	18.65	1.11	0.00	1.11
16.10	1.73	0.00	1.73	18.70	1.11	0.00	1.11
16.15	1.72	0.00	1.72	18.75	1.11	0.00	1.11
16.20	1.71	0.00	1.71	18.80	1.10	0.00	1.10
16.25	1.69	0.00	1.69	18.85	1.10	0.00	1.10
16.30	1.67	0.00	1.67	18.90	1.10	0.00	1.10
16.35	1.66	0.00	1.66	18.95	1.09	0.00	1.09
16.40	1.65	0.00	1.65	19.00	1.09	0.00	1.09
16.45	1.63	0.00	1.63	19.05	1.09	0.00	1.09
16.50	1.62	0.00	1.62	19.10	1.08	0.00	1.08
16.55	1.60	0.00	1.60	19.15	1.08	0.00	1.08
16.60	1.59	0.00	1.59	19.20	1.08	0.00	1.08
16.65	1.58	0.00	1.58	19.25	1.07	0.00	1.07
16.70	1.56	0.00	1.56	19.30	1.07	0.00	1.07
16.75	1.55	0.00	1.55	19.35	1.06	0.00	1.06
16.80	1.53	0.00	1.53	19.40	1.06	0.00	1.06
16.85	1.52	0.00	1.52	19.45	1.06	0.00	1.06
16.90	1.50	0.00	1.50	19.50	1.05	0.00	1.05
16.95	1.49	0.00	1.49	19.55	1.05	0.00	1.05
17.00	1.48	0.00	1.48	19.60	1.05	0.00	1.05
17.05	1.46	0.00	1.46	19.65	1.04	0.00	1.04
17.10	1.45	0.00	1.45	19.70	1.04	0.00	1.04
17.15	1.43	0.00	1.43	19.75	1.04	0.00	1.04
17.20	1.42	0.00	1.42	19.80	1.04	0.00	1.04
17.25	1.40	0.00	1.40	19.85	1.03	0.00	1.03
17.30	1.39	0.00	1.39	19.90	1.03	0.00	1.03
17.35	1.37	0.00	1.37	19.95	1.02	0.00	1.02
17.40	1.36	0.00	1.36	20.00	1.02	0.00	1.02
17.45	1.35	0.00	1.35	20.05	1.02	0.00	1.02
17.50	1.34	0.00	1.34	20.10	1.01	0.00	1.01
17.55	1.32	0.00	1.32	20.15	1.01	0.00	1.01
17.60	1.31	0.00	1.31	20.20	1.00	0.00	1.00
17.65	1.29	0.00	1.29	20.25	1.00	0.00	1.00
17.70	1.28	0.00	1.28	20.30	1.00	0.00	1.00
17.75	1.26	0.00	1.26	20.35	0.99	0.00	0.99
17.80	1.25	0.00	1.25	20.40	0.99	0.00	0.99
17.85	1.24	0.00	1.24	20.45	0.99	0.00	0.99
17.90	1.22	0.00	1.22	20.50	0.98	0.00	0.98
17.95	1.21	0.00	1.21	20.55	0.98	0.00	0.98
18.00	1.19	0.00	1.19	20.60	0.98	0.00	0.98
18.05	1.18	0.00	1.18	20.65	0.98	0.00	0.98
18.10	1.17	0.00	1.17	20.70	0.97	0.00	0.97
18.15	1.16	0.00	1.16	20.75	0.97	0.00	0.97

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.96	0.00	0.96	23.40	0.78	0.00	0.78
20.85	0.96	0.00	0.96	23.45	0.78	0.00	0.78
20.90	0.95	0.00	0.95	23.50	0.77	0.00	0.77
20.95	0.95	0.00	0.95	23.55	0.77	0.00	0.77
21.00	0.95	0.00	0.95	23.60	0.76	0.00	0.76
21.05	0.94	0.00	0.94	23.65	0.76	0.00	0.76
21.10	0.94	0.00	0.94	23.70	0.76	0.00	0.76
21.15	0.94	0.00	0.94	23.75	0.76	0.00	0.76
21.20	0.93	0.00	0.93	23.80	0.75	0.00	0.75
21.25	0.93	0.00	0.93	23.85	0.75	0.00	0.75
21.30	0.93	0.00	0.93	23.90	0.74	0.00	0.74
21.35	0.93	0.00	0.93	23.95	0.79	0.00	0.79
21.40	0.92	0.00	0.92	24.00	0.85	0.00	0.85
21.45	0.92	0.00	0.92				
21.50	0.91	0.00	0.91				
21.55	0.91	0.00	0.91				
21.60	0.91	0.00	0.91				
21.65	0.90	0.00	0.90				
21.70	0.90	0.00	0.90				
21.75	0.90	0.00	0.90				
21.80	0.90	0.00	0.90				
21.85	0.89	0.00	0.89				
21.90	0.89	0.00	0.89				
21.95	0.88	0.00	0.88				
22.00	0.88	0.00	0.88				
22.05	0.87	0.00	0.87				
22.10	0.87	0.00	0.87				
22.15	0.87	0.00	0.87				
22.20	0.87	0.00	0.87				
22.25	0.86	0.00	0.86				
22.30	0.86	0.00	0.86				
22.35	0.85	0.00	0.85				
22.40	0.85	0.00	0.85				
22.45	0.84	0.00	0.84				
22.50	0.84	0.00	0.84				
22.55	0.84	0.00	0.84				
22.60	0.84	0.00	0.84				
22.65	0.83	0.00	0.83				
22.70	0.83	0.00	0.83				
22.75	0.82	0.00	0.82				
22.80	0.82	0.00	0.82				
22.85	0.82	0.00	0.82				
22.90	0.81	0.00	0.81				
22.95	0.81	0.00	0.81				
23.00	0.81	0.00	0.81				
23.05	0.81	0.00	0.81				
23.10	0.80	0.00	0.80				
23.15	0.80	0.00	0.80				
23.20	0.79	0.00	0.79				
23.25	0.79	0.00	0.79				
23.30	0.78	0.00	0.78				
23.35	0.78	0.00	0.78				

Events for Subcatchment PDA 4 Perv: PDA4 PERV

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR CURRENT	3.41	0.30	0.017	1.86
10YR CURRENT	5.23	0.55	0.032	3.48
25YR CURRENT	6.45	0.72	0.042	4.62
100YR CURRENT	**8.95**	**1.06**	**0.064**	**7.01**

Events for Subcatchment PDA1A IMP: PDA1A IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR CURRENT	3.41	4.17	0.294	3.17
10YR CURRENT	5.23	6.44	0.462	4.99
25YR CURRENT	6.45	7.95	0.574	6.21
100YR CURRENT	**8.95**	**11.05**	**0.805**	**8.70**

Events for Subcatchment PDA1A PERV: PDA-1A PERV

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR CURRENT	3.41	0.35	0.042	1.85
10YR CURRENT	5.23	0.66	0.078	3.46
25YR CURRENT	6.45	0.86	0.103	4.59
100YR CURRENT	**8.95**	**1.29**	**0.157**	**6.98**

Events for Subcatchment PDA1B IMP: PDA1B IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR CURRENT	3.41	8.93	0.709	3.17
10YR CURRENT	5.23	13.78	1.114	4.99
25YR CURRENT	6.45	17.02	1.385	6.20
100YR CURRENT	**8.95**	**23.66**	**1.943**	**8.70**

Events for Subcatchment PDA1B PERV: PDA-1B PERV

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR CURRENT	3.41	0.11	0.015	0.42
10YR CURRENT	5.23	0.56	0.047	1.29
25YR CURRENT	6.45	0.93	0.075	2.04
100YR CURRENT	**8.95**	**1.81**	**0.140**	**3.81**

Events for Subcatchment PDA2 IMP: PDA2 IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR CURRENT	3.41	1.17	0.082	3.17
10YR CURRENT	5.23	1.80	0.129	4.99
25YR CURRENT	6.45	2.22	0.160	6.21
100YR CURRENT	**8.95**	**3.09**	**0.225**	**8.70**

Events for Subcatchment PDA3 IMP: PDA3 IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR CURRENT	3.41	3.52	0.293	3.17
10YR CURRENT	5.23	5.44	0.461	4.99
25YR CURRENT	6.45	6.72	0.574	6.20
100YR CURRENT	**8.95**	**9.34**	**0.804**	**8.70**

Events for Subcatchment PDA3 PERV: PDA3 PERV

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR CURRENT	3.41	1.25	0.084	1.86
10YR CURRENT	5.23	2.30	0.156	3.48
25YR CURRENT	6.45	3.01	0.208	4.61
100YR CURRENT	**8.95**	**4.46**	**0.315**	**7.00**

Events for Subcatchment PDA4 IMP: PDA4 IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR CURRENT	3.41	5.39	0.397	3.17
10YR CURRENT	5.23	8.31	0.624	4.99
25YR CURRENT	6.45	10.27	0.776	6.21
100YR CURRENT	**8.95**	**14.27**	**1.088**	**8.70**

Events for Link P1A: P1A

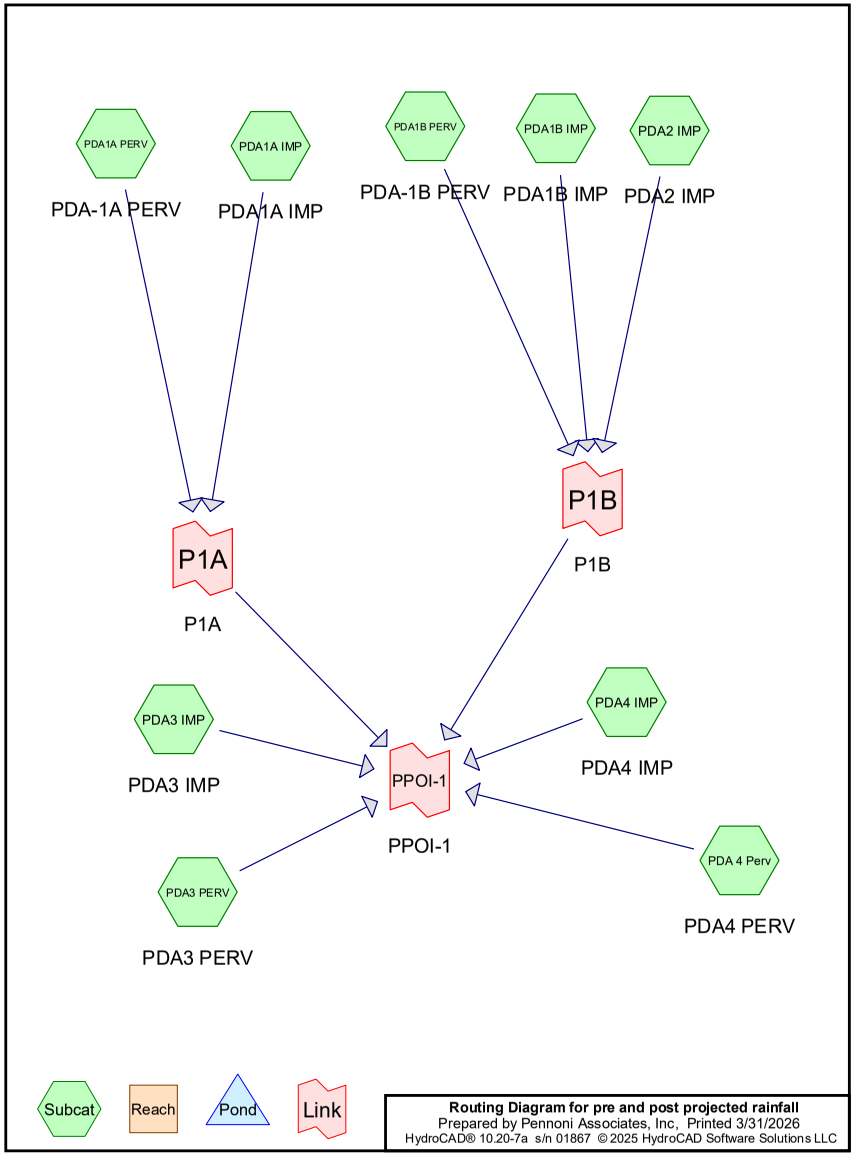
Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
2YR CURRENT	4.40	4.40	**0.00**
10YR CURRENT	6.88	6.88	0.00
25YR CURRENT	8.54	8.54	0.00
100YR CURRENT	**11.95**	**11.95**	0.00

Events for Link P1B: P1B

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
2YR CURRENT	10.13	10.13	**0.00**
10YR CURRENT	16.02	16.02	0.00
25YR CURRENT	20.03	20.03	0.00
100YR CURRENT	**28.34**	**28.34**	0.00

Events for Link PPOI-1: PPOI-1

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
2YR CURRENT	24.80	24.80	**0.00**
10YR CURRENT	39.18	39.18	0.00
25YR CURRENT	48.89	48.89	0.00
100YR CURRENT	**68.86**	**68.86**	0.00



Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC	P2 (inches)
1	2YR PROJECTED	NOAA 24-hr	C	Default	24.00	1	3.91	2	3.91
2	10YR PROJECTED	NOAA 24-hr	C	Default	24.00	1	6.17	2	3.91
3	25YR PROJECTED	NOAA 24-hr	C	Default	24.00	1	8.03	2	3.91
4	100YR PROJECTED	NOAA 24-hr	C	Default	24.00	1	11.84	2	3.91

PROPOSED PROJECTED

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.250	39	>75% Grass cover, Good, HSG A (PDA1B PERV)
1.110	84	>75% Grass cover, Good, HSG D (PDA 4 Perv, PDA1A PERV, PDA1B PERV, PDA3 PERV)
0.100	96	Gravel surface, HSG A (PDA1B IMP)
0.070	96	Gravel surface, HSG D (PDA1B IMP)
0.120	98	Impervious non vehicular (PDA3 IMP)
0.110	98	Impervious non vehicular, HSG D (PDA1B IMP)
3.330	98	Impervious vehicular (PDA1A IMP, PDA1B IMP, PDA2 IMP, PDA3 IMP, PDA4 IMP)
2.980	98	Roofs, HSG D (PDA1A IMP, PDA1B IMP)
8.070	**94**	**TOTAL AREA**

Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.350	HSG A	PDA1B IMP, PDA1B PERV
0.000	HSG B	
0.000	HSG C	
4.270	HSG D	PDA 4 Perv, PDA1A IMP, PDA1A PERV, PDA1B IMP, PDA1B PERV, PDA3 PERV
3.450	Other	PDA1A IMP, PDA1B IMP, PDA2 IMP, PDA3 IMP, PDA4 IMP
8.070		**TOTAL AREA**

Ground Covers (selected nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.250	0.000	0.000	1.110	0.000	1.360	>75% Grass cover, Good	PDA 4 Perv, PDA1A PERV, PDA1B PERV, PDA3 PERV
0.100	0.000	0.000	0.070	0.000	0.170	Gravel surface	PDA1B IMP
0.000	0.000	0.000	0.110	0.120	0.230	Impervious non vehicular	PDA1B IMP, PDA3 IMP
0.000	0.000	0.000	0.000	3.330	3.330	Impervious vehicular	PDA1A IMP, PDA1B IMP, PDA2 IMP, PDA3 IMP, PDA4 IMP
0.000	0.000	0.000	2.980	0.000	2.980	Roofs	PDA1A IMP, PDA1B IMP
0.350	**0.000**	**0.000**	**4.270**	**3.450**	**8.070**	**TOTAL AREA**	

Pipe Listing (selected nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)	N Na
1	PDA 4 Perv	0.00	0.00	48.0	0.0040	0.015	0.0	15.0	0.0	
2	PDA1A IMP	0.00	0.00	185.0	0.0057	0.015	0.0	30.0	0.0	
3	PDA1A PERV	0.00	0.00	22.0	0.0075	0.015	0.0	18.0	0.0	
4	PDA1A PERV	0.00	0.00	211.0	0.0021	0.015	0.0	30.0	0.0	
5	PDA1A PERV	0.00	0.00	185.0	0.0057	0.015	0.0	30.0	0.0	
6	PDA1B IMP	0.00	0.00	238.0	0.0024	0.015	0.0	18.0	0.0	
7	PDA1B IMP	0.00	0.00	92.0	0.0031	0.015	0.0	18.0	0.0	
8	PDA1B IMP	0.00	0.00	93.0	0.0011	0.015	0.0	18.0	0.0	
9	PDA1B IMP	0.00	0.00	95.0	0.0075	0.015	0.0	18.0	0.0	
10	PDA1B IMP	0.00	0.00	76.0	0.0046	0.015	0.0	18.0	0.0	
11	PDA1B PERV	0.00	0.00	238.0	0.0024	0.015	0.0	18.0	0.0	
12	PDA1B PERV	0.00	0.00	92.0	0.0031	0.015	0.0	18.0	0.0	
13	PDA1B PERV	0.00	0.00	93.0	0.0110	0.015	0.0	18.0	0.0	
14	PDA1B PERV	0.00	0.00	95.0	0.0075	0.015	0.0	18.0	0.0	
15	PDA1B PERV	0.00	0.00	76.0	0.0046	0.015	0.0	18.0	0.0	
16	PDA3 IMP	0.00	0.00	172.0	0.0039	0.015	0.0	24.0	0.0	
17	PDA3 IMP	0.00	0.00	27.0	0.0120	0.015	0.0	24.0	0.0	
18	PDA3 IMP	0.00	0.00	439.0	0.0015	0.015	0.0	60.0	0.0	
19	PDA3 PERV	0.00	0.00	42.0	0.0150	0.015	0.0	15.0	0.0	
20	PDA4 IMP	0.00	0.00	100.0	0.0039	0.015	0.0	18.0	0.0	
21	PDA4 IMP	0.00	0.00	100.0	0.0020	0.015	0.0	24.0	0.0	

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment PDA 4 Perv: PDA4 PERV Runoff Area=0.110 ac 0.00% Impervious Runoff Depth>2.29"
Flow Length=117' Tc=1.2 min CN=84 Runoff=0.37 cfs 0.021 af

Subcatchment PDA1AIMP: PDA1A IMP Runoff Area=1.110 ac 100.00% Impervious Runoff Depth>3.67"
Flow Length=332' Tc=2.2 min CN=98 Runoff=4.83 cfs 0.340 af

Subcatchment PDA1APERV: PDA-1APERV Runoff Area=0.270 ac 0.00% Impervious Runoff Depth>2.28"
Flow Length=518' Tc=13.5 min CN=84 Runoff=0.45 cfs 0.051 af

Subcatchment PDA1B IMP: PDA1B IMP Runoff Area=2.680 ac 93.66% Impervious Runoff Depth>3.67"
Flow Length=618' Tc=4.1 min CN=98 Runoff=10.26 cfs 0.820 af

Subcatchment PDA1B PERV: PDA-1B PERV Runoff Area=0.440 ac 0.00% Impervious Runoff Depth>0.62"
Flow Length=761' Tc=5.4 min CN=58 Runoff=0.22 cfs 0.023 af

Subcatchment PDA2 IMP: PDA2 IMP Runoff Area=0.310 ac 100.00% Impervious Runoff Depth>3.67"
Flow Length=351' Tc=2.2 min CN=98 Runoff=1.35 cfs 0.095 af

Subcatchment PDA3 IMP: PDA3 IMP Runoff Area=1.110 ac 100.00% Impervious Runoff Depth>3.67"
Flow Length=804' Tc=4.7 min CN=98 Runoff=4.08 cfs 0.339 af

Subcatchment PDA3 PERV: PDA3 PERV Runoff Area=0.540 ac 0.00% Impervious Runoff Depth>2.29"
Flow Length=131' Tc=3.4 min CN=84 Runoff=1.56 cfs 0.103 af

Subcatchment PDA4 IMP: PDA4 IMP Runoff Area=1.500 ac 100.00% Impervious Runoff Depth>3.67"
Flow Length=388' Tc=2.9 min CN=98 Runoff=6.22 cfs 0.459 af

Link P1A: P1A Inflow=5.13 cfs 0.391 af
Primary=5.13 cfs 0.391 af

Link P1B: P1B Inflow=11.73 cfs 0.937 af
Primary=11.73 cfs 0.937 af

Link PPOI-1: PPOI-1 Inflow=28.87 cfs 2.251 af
Primary=28.87 cfs 2.251 af

Total Runoff Area = 8.070 ac Runoff Volume = 2.251 af Average Runoff Depth = 3.35"
18.96% Pervious = 1.530 ac 81.04% Impervious = 6.540 ac

Summary for Subcatchment PDA 4 Perv: PDA4 PERV

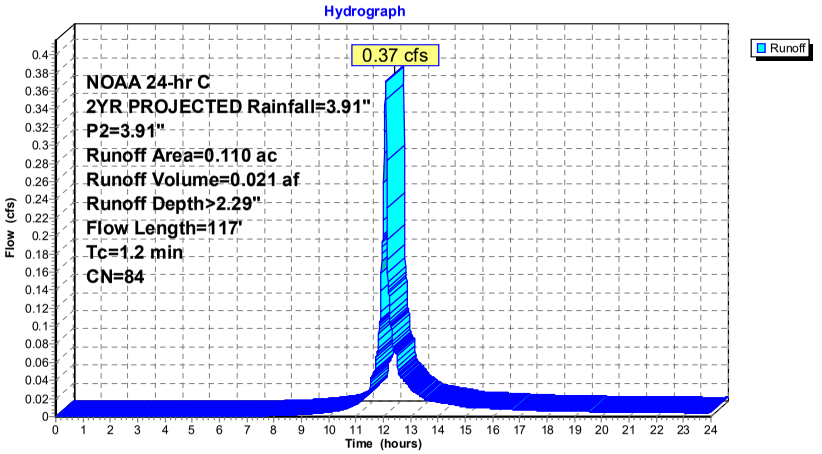
Runoff = 0.37 cfs @ 12.10 hrs, Volume= 0.021 af, Depth> 2.29"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR PROJECTED Rainfall=3.91", P2=3.91"

Area (ac)	CN	Description
* 0.110	84	>75% Grass cover, Good, HSG D
0.110		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	5	0.3300	0.32		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
0.6	64	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.3	48	0.0040	2.89	3.54	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
1.2	117	Total			

Subcatchment PDA 4 Perv: PDA4 PERV



Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.12	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.12	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.12	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.13	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.13	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.13	0.00	0.00
0.30	0.01	0.00	0.00	2.90	0.13	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.14	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.14	0.00	0.00
0.45	0.02	0.00	0.00	3.05	0.14	0.00	0.00
0.50	0.02	0.00	0.00	3.10	0.14	0.00	0.00
0.55	0.02	0.00	0.00	3.15	0.15	0.00	0.00
0.60	0.03	0.00	0.00	3.20	0.15	0.00	0.00
0.65	0.03	0.00	0.00	3.25	0.15	0.00	0.00
0.70	0.03	0.00	0.00	3.30	0.15	0.00	0.00
0.75	0.03	0.00	0.00	3.35	0.16	0.00	0.00
0.80	0.03	0.00	0.00	3.40	0.16	0.00	0.00
0.85	0.04	0.00	0.00	3.45	0.16	0.00	0.00
0.90	0.04	0.00	0.00	3.50	0.16	0.00	0.00
0.95	0.04	0.00	0.00	3.55	0.17	0.00	0.00
1.00	0.04	0.00	0.00	3.60	0.17	0.00	0.00
1.05	0.04	0.00	0.00	3.65	0.17	0.00	0.00
1.10	0.05	0.00	0.00	3.70	0.17	0.00	0.00
1.15	0.05	0.00	0.00	3.75	0.18	0.00	0.00
1.20	0.05	0.00	0.00	3.80	0.18	0.00	0.00
1.25	0.05	0.00	0.00	3.85	0.18	0.00	0.00
1.30	0.06	0.00	0.00	3.90	0.19	0.00	0.00
1.35	0.06	0.00	0.00	3.95	0.19	0.00	0.00
1.40	0.06	0.00	0.00	4.00	0.19	0.00	0.00
1.45	0.06	0.00	0.00	4.05	0.19	0.00	0.00
1.50	0.07	0.00	0.00	4.10	0.20	0.00	0.00
1.55	0.07	0.00	0.00	4.15	0.20	0.00	0.00
1.60	0.07	0.00	0.00	4.20	0.20	0.00	0.00
1.65	0.07	0.00	0.00	4.25	0.21	0.00	0.00
1.70	0.07	0.00	0.00	4.30	0.21	0.00	0.00
1.75	0.08	0.00	0.00	4.35	0.21	0.00	0.00
1.80	0.08	0.00	0.00	4.40	0.21	0.00	0.00
1.85	0.08	0.00	0.00	4.45	0.22	0.00	0.00
1.90	0.08	0.00	0.00	4.50	0.22	0.00	0.00
1.95	0.09	0.00	0.00	4.55	0.22	0.00	0.00
2.00	0.09	0.00	0.00	4.60	0.23	0.00	0.00
2.05	0.09	0.00	0.00	4.65	0.23	0.00	0.00
2.10	0.09	0.00	0.00	4.70	0.23	0.00	0.00
2.15	0.10	0.00	0.00	4.75	0.23	0.00	0.00
2.20	0.10	0.00	0.00	4.80	0.24	0.00	0.00
2.25	0.10	0.00	0.00	4.85	0.24	0.00	0.00
2.30	0.10	0.00	0.00	4.90	0.24	0.00	0.00
2.35	0.11	0.00	0.00	4.95	0.25	0.00	0.00
2.40	0.11	0.00	0.00	5.00	0.25	0.00	0.00
2.45	0.11	0.00	0.00	5.05	0.25	0.00	0.00
2.50	0.11	0.00	0.00	5.10	0.25	0.00	0.00
2.55	0.12	0.00	0.00	5.15	0.26	0.00	0.00

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.26	0.00	0.00	7.80	0.45	0.00	0.00
5.25	0.26	0.00	0.00	7.85	0.45	0.00	0.00
5.30	0.27	0.00	0.00	7.90	0.46	0.00	0.00
5.35	0.27	0.00	0.00	7.95	0.46	0.00	0.00
5.40	0.27	0.00	0.00	8.00	0.47	0.00	0.00
5.45	0.28	0.00	0.00	8.05	0.47	0.00	0.00
5.50	0.28	0.00	0.00	8.10	0.48	0.00	0.00
5.55	0.28	0.00	0.00	8.15	0.48	0.01	0.00
5.60	0.28	0.00	0.00	8.20	0.49	0.01	0.00
5.65	0.29	0.00	0.00	8.25	0.49	0.01	0.00
5.70	0.29	0.00	0.00	8.30	0.50	0.01	0.00
5.75	0.29	0.00	0.00	8.35	0.50	0.01	0.00
5.80	0.30	0.00	0.00	8.40	0.51	0.01	0.00
5.85	0.30	0.00	0.00	8.45	0.51	0.01	0.00
5.90	0.30	0.00	0.00	8.50	0.52	0.01	0.00
5.95	0.31	0.00	0.00	8.55	0.52	0.01	0.00
6.00	0.31	0.00	0.00	8.60	0.53	0.01	0.00
6.05	0.31	0.00	0.00	8.65	0.53	0.01	0.00
6.10	0.32	0.00	0.00	8.70	0.54	0.01	0.00
6.15	0.32	0.00	0.00	8.75	0.54	0.01	0.00
6.20	0.32	0.00	0.00	8.80	0.55	0.01	0.00
6.25	0.33	0.00	0.00	8.85	0.55	0.01	0.00
6.30	0.33	0.00	0.00	8.90	0.56	0.02	0.00
6.35	0.33	0.00	0.00	8.95	0.57	0.02	0.00
6.40	0.34	0.00	0.00	9.00	0.57	0.02	0.00
6.45	0.34	0.00	0.00	9.05	0.58	0.02	0.00
6.50	0.34	0.00	0.00	9.10	0.58	0.02	0.00
6.55	0.35	0.00	0.00	9.15	0.59	0.02	0.00
6.60	0.35	0.00	0.00	9.20	0.59	0.02	0.00
6.65	0.35	0.00	0.00	9.25	0.60	0.02	0.00
6.70	0.36	0.00	0.00	9.30	0.61	0.02	0.00
6.75	0.36	0.00	0.00	9.35	0.61	0.03	0.00
6.80	0.37	0.00	0.00	9.40	0.62	0.03	0.00
6.85	0.37	0.00	0.00	9.45	0.63	0.03	0.00
6.90	0.37	0.00	0.00	9.50	0.63	0.03	0.00
6.95	0.38	0.00	0.00	9.55	0.64	0.03	0.00
7.00	0.38	0.00	0.00	9.60	0.65	0.03	0.00
7.05	0.39	0.00	0.00	9.65	0.66	0.03	0.00
7.10	0.39	0.00	0.00	9.70	0.66	0.04	0.00
7.15	0.39	0.00	0.00	9.75	0.67	0.04	0.00
7.20	0.40	0.00	0.00	9.80	0.68	0.04	0.00
7.25	0.40	0.00	0.00	9.85	0.69	0.04	0.00
7.30	0.41	0.00	0.00	9.90	0.70	0.04	0.00
7.35	0.41	0.00	0.00	9.95	0.70	0.05	0.00
7.40	0.41	0.00	0.00	10.00	0.71	0.05	0.01
7.45	0.42	0.00	0.00	10.05	0.72	0.05	0.01
7.50	0.42	0.00	0.00	10.10	0.73	0.05	0.01
7.55	0.43	0.00	0.00	10.15	0.74	0.06	0.01
7.60	0.43	0.00	0.00	10.20	0.75	0.06	0.01
7.65	0.44	0.00	0.00	10.25	0.76	0.06	0.01
7.70	0.44	0.00	0.00	10.30	0.77	0.07	0.01
7.75	0.45	0.00	0.00	10.35	0.78	0.07	0.01

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.79	0.07	0.01	13.00	2.97	1.49	0.03
10.45	0.80	0.07	0.01	13.05	2.99	1.51	0.03
10.50	0.81	0.08	0.01	13.10	3.00	1.52	0.03
10.55	0.82	0.08	0.01	13.15	3.02	1.53	0.03
10.60	0.83	0.08	0.01	13.20	3.03	1.54	0.03
10.65	0.84	0.09	0.01	13.25	3.04	1.55	0.02
10.70	0.85	0.09	0.01	13.30	3.06	1.56	0.02
10.75	0.87	0.10	0.01	13.35	3.07	1.57	0.02
10.80	0.88	0.10	0.01	13.40	3.08	1.58	0.02
10.85	0.89	0.11	0.01	13.45	3.09	1.59	0.02
10.90	0.91	0.11	0.01	13.50	3.10	1.60	0.02
10.95	0.92	0.12	0.01	13.55	3.11	1.61	0.02
11.00	0.94	0.13	0.01	13.60	3.12	1.62	0.02
11.05	0.96	0.13	0.02	13.65	3.13	1.63	0.02
11.10	0.97	0.14	0.02	13.70	3.14	1.63	0.02
11.15	0.99	0.15	0.02	13.75	3.15	1.64	0.02
11.20	1.01	0.16	0.02	13.80	3.16	1.65	0.02
11.25	1.03	0.17	0.02	13.85	3.17	1.66	0.02
11.30	1.06	0.18	0.02	13.90	3.18	1.67	0.02
11.35	1.08	0.19	0.02	13.95	3.19	1.67	0.02
11.40	1.10	0.20	0.02	14.00	3.20	1.68	0.02
11.45	1.13	0.21	0.03	14.05	3.21	1.69	0.02
11.50	1.16	0.22	0.03	14.10	3.21	1.69	0.02
11.55	1.19	0.24	0.04	14.15	3.22	1.70	0.02
11.60	1.23	0.26	0.04	14.20	3.23	1.71	0.02
11.65	1.28	0.29	0.05	14.25	3.24	1.71	0.01
11.70	1.32	0.31	0.05	14.30	3.25	1.72	0.01
11.75	1.37	0.34	0.07	14.35	3.25	1.73	0.01
11.80	1.43	0.37	0.07	14.40	3.26	1.73	0.01
11.85	1.51	0.42	0.10	14.45	3.27	1.74	0.01
11.90	1.59	0.47	0.11	14.50	3.28	1.75	0.01
11.95	1.73	0.56	0.18	14.55	3.28	1.75	0.01
12.00	1.86	0.65	0.20	14.60	3.29	1.76	0.01
12.05	2.09	0.81	0.33	14.65	3.30	1.76	0.01
12.10	2.32	0.98	**0.37**	14.70	3.30	1.77	0.01
12.15	2.40	1.04	0.17	14.75	3.31	1.77	0.01
12.20	2.48	1.10	0.14	14.80	3.32	1.78	0.01
12.25	2.54	1.14	0.10	14.85	3.32	1.78	0.01
12.30	2.59	1.19	0.10	14.90	3.33	1.79	0.01
12.35	2.63	1.22	0.08	14.95	3.33	1.79	0.01
12.40	2.68	1.25	0.07	15.00	3.34	1.80	0.01
12.45	2.72	1.29	0.07	15.05	3.34	1.80	0.01
12.50	2.75	1.32	0.07	15.10	3.35	1.81	0.01
12.55	2.78	1.34	0.05	15.15	3.36	1.81	0.01
12.60	2.81	1.36	0.05	15.20	3.36	1.82	0.01
12.65	2.83	1.38	0.04	15.25	3.37	1.82	0.01
12.70	2.85	1.40	0.04	15.30	3.37	1.83	0.01
12.75	2.88	1.41	0.04	15.35	3.38	1.83	0.01
12.80	2.90	1.43	0.04	15.40	3.38	1.84	0.01
12.85	2.92	1.45	0.04	15.45	3.39	1.84	0.01
12.90	2.94	1.46	0.04	15.50	3.39	1.84	0.01
12.95	2.95	1.48	0.03	15.55	3.40	1.85	0.01

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	3.40	1.85	0.01	18.20	3.61	2.03	0.01
15.65	3.41	1.86	0.01	18.25	3.62	2.04	0.01
15.70	3.41	1.86	0.01	18.30	3.62	2.04	0.01
15.75	3.42	1.87	0.01	18.35	3.62	2.04	0.01
15.80	3.42	1.87	0.01	18.40	3.63	2.04	0.01
15.85	3.43	1.87	0.01	18.45	3.63	2.05	0.01
15.90	3.43	1.88	0.01	18.50	3.63	2.05	0.01
15.95	3.44	1.88	0.01	18.55	3.63	2.05	0.01
16.00	3.44	1.89	0.01	18.60	3.64	2.05	0.01
16.05	3.45	1.89	0.01	18.65	3.64	2.06	0.01
16.10	3.45	1.89	0.01	18.70	3.64	2.06	0.01
16.15	3.46	1.90	0.01	18.75	3.65	2.06	0.01
16.20	3.46	1.90	0.01	18.80	3.65	2.07	0.01
16.25	3.46	1.91	0.01	18.85	3.65	2.07	0.01
16.30	3.47	1.91	0.01	18.90	3.66	2.07	0.01
16.35	3.47	1.91	0.01	18.95	3.66	2.07	0.01
16.40	3.48	1.92	0.01	19.00	3.66	2.08	0.01
16.45	3.48	1.92	0.01	19.05	3.66	2.08	0.01
16.50	3.49	1.93	0.01	19.10	3.67	2.08	0.01
16.55	3.49	1.93	0.01	19.15	3.67	2.08	0.01
16.60	3.50	1.93	0.01	19.20	3.67	2.09	0.01
16.65	3.50	1.94	0.01	19.25	3.68	2.09	0.01
16.70	3.50	1.94	0.01	19.30	3.68	2.09	0.01
16.75	3.51	1.94	0.01	19.35	3.68	2.09	0.01
16.80	3.51	1.95	0.01	19.40	3.68	2.10	0.01
16.85	3.52	1.95	0.01	19.45	3.69	2.10	0.01
16.90	3.52	1.95	0.01	19.50	3.69	2.10	0.01
16.95	3.52	1.96	0.01	19.55	3.69	2.10	0.01
17.00	3.53	1.96	0.01	19.60	3.70	2.11	0.01
17.05	3.53	1.96	0.01	19.65	3.70	2.11	0.01
17.10	3.54	1.97	0.01	19.70	3.70	2.11	0.01
17.15	3.54	1.97	0.01	19.75	3.70	2.11	0.01
17.20	3.54	1.97	0.01	19.80	3.71	2.12	0.01
17.25	3.55	1.98	0.01	19.85	3.71	2.12	0.01
17.30	3.55	1.98	0.01	19.90	3.71	2.12	0.01
17.35	3.56	1.98	0.01	19.95	3.72	2.12	0.01
17.40	3.56	1.99	0.01	20.00	3.72	2.12	0.01
17.45	3.56	1.99	0.01	20.05	3.72	2.13	0.01
17.50	3.57	1.99	0.01	20.10	3.72	2.13	0.01
17.55	3.57	2.00	0.01	20.15	3.73	2.13	0.01
17.60	3.57	2.00	0.01	20.20	3.73	2.13	0.01
17.65	3.58	2.00	0.01	20.25	3.73	2.14	0.01
17.70	3.58	2.01	0.01	20.30	3.74	2.14	0.01
17.75	3.58	2.01	0.01	20.35	3.74	2.14	0.01
17.80	3.59	2.01	0.01	20.40	3.74	2.14	0.01
17.85	3.59	2.01	0.01	20.45	3.74	2.15	0.01
17.90	3.59	2.02	0.01	20.50	3.75	2.15	0.01
17.95	3.60	2.02	0.01	20.55	3.75	2.15	0.01
18.00	3.60	2.02	0.01	20.60	3.75	2.15	0.01
18.05	3.60	2.03	0.01	20.65	3.75	2.16	0.01
18.10	3.61	2.03	0.01	20.70	3.76	2.16	0.01
18.15	3.61	2.03	0.01	20.75	3.76	2.16	0.01

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.76	2.16	0.01	23.40	3.88	2.27	0.00
20.85	3.76	2.16	0.01	23.45	3.89	2.27	0.00
20.90	3.77	2.17	0.01	23.50	3.89	2.27	0.00
20.95	3.77	2.17	0.00	23.55	3.89	2.28	0.00
21.00	3.77	2.17	0.00	23.60	3.89	2.28	0.00
21.05	3.77	2.17	0.00	23.65	3.89	2.28	0.00
21.10	3.78	2.18	0.00	23.70	3.90	2.28	0.00
21.15	3.78	2.18	0.00	23.75	3.90	2.28	0.00
21.20	3.78	2.18	0.00	23.80	3.90	2.28	0.00
21.25	3.78	2.18	0.00	23.85	3.90	2.29	0.00
21.30	3.79	2.18	0.00	23.90	3.90	2.29	0.00
21.35	3.79	2.19	0.00	23.95	3.91	2.29	0.00
21.40	3.79	2.19	0.00	24.00	**3.91**	**2.29**	0.00
21.45	3.79	2.19	0.00				
21.50	3.80	2.19	0.00				
21.55	3.80	2.20	0.00				
21.60	3.80	2.20	0.00				
21.65	3.80	2.20	0.00				
21.70	3.81	2.20	0.00				
21.75	3.81	2.20	0.00				
21.80	3.81	2.21	0.00				
21.85	3.81	2.21	0.00				
21.90	3.82	2.21	0.00				
21.95	3.82	2.21	0.00				
22.00	3.82	2.21	0.00				
22.05	3.82	2.22	0.00				
22.10	3.83	2.22	0.00				
22.15	3.83	2.22	0.00				
22.20	3.83	2.22	0.00				
22.25	3.83	2.22	0.00				
22.30	3.84	2.23	0.00				
22.35	3.84	2.23	0.00				
22.40	3.84	2.23	0.00				
22.45	3.84	2.23	0.00				
22.50	3.84	2.23	0.00				
22.55	3.85	2.24	0.00				
22.60	3.85	2.24	0.00				
22.65	3.85	2.24	0.00				
22.70	3.85	2.24	0.00				
22.75	3.86	2.24	0.00				
22.80	3.86	2.25	0.00				
22.85	3.86	2.25	0.00				
22.90	3.86	2.25	0.00				
22.95	3.87	2.25	0.00				
23.00	3.87	2.25	0.00				
23.05	3.87	2.26	0.00				
23.10	3.87	2.26	0.00				
23.15	3.87	2.26	0.00				
23.20	3.88	2.26	0.00				
23.25	3.88	2.26	0.00				
23.30	3.88	2.27	0.00				
23.35	3.88	2.27	0.00				

Summary for Subcatchment PDA1A IMP: PDA1A IMP

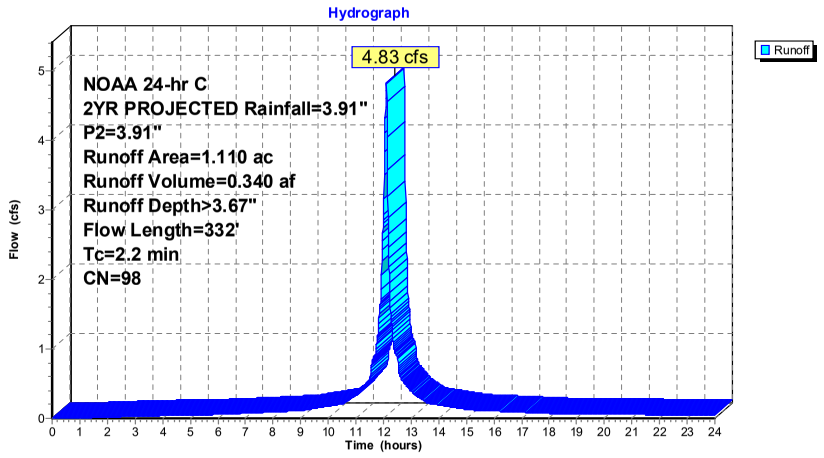
Runoff = 4.83 cfs @ 12.11 hrs, Volume= 0.340 af, Depth> 3.67"
Routed to Link P1A : P1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR PROJECTED Rainfall=3.91", P2=3.91"

	Area (ac)	CN	Description
*	0.340	98	Impervious vehicular
	0.770	98	Roofs, HSG D
	1.110	98	Weighted Average
	1.110		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0160	1.39		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.4	47	0.0100	2.03		**Shallow Concentrated Flow, paved** Paved Kv= 20.3 fps
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
2.2	332	Total			

Subcatchment PDA1A IMP: PDA1A IMP



Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.12	0.02	0.03
0.05	0.00	0.00	0.00	2.65	0.12	0.02	0.03
0.10	0.01	0.00	0.00	2.70	0.12	0.02	0.03
0.15	0.01	0.00	0.00	2.75	0.13	0.02	0.03
0.20	0.01	0.00	0.00	2.80	0.13	0.03	0.03
0.25	0.01	0.00	0.00	2.85	0.13	0.03	0.03
0.30	0.01	0.00	0.00	2.90	0.13	0.03	0.03
0.35	0.02	0.00	0.00	2.95	0.14	0.03	0.03
0.40	0.02	0.00	0.00	3.00	0.14	0.03	0.03
0.45	0.02	0.00	0.00	3.05	0.14	0.03	0.03
0.50	0.02	0.00	0.00	3.10	0.14	0.03	0.03
0.55	0.02	0.00	0.00	3.15	0.15	0.04	0.03
0.60	0.03	0.00	0.00	3.20	0.15	0.04	0.03
0.65	0.03	0.00	0.00	3.25	0.15	0.04	0.03
0.70	0.03	0.00	0.00	3.30	0.15	0.04	0.03
0.75	0.03	0.00	0.00	3.35	0.16	0.04	0.03
0.80	0.03	0.00	0.00	3.40	0.16	0.04	0.03
0.85	0.04	0.00	0.00	3.45	0.16	0.04	0.04
0.90	0.04	0.00	0.00	3.50	0.16	0.05	0.04
0.95	0.04	0.00	0.00	3.55	0.17	0.05	0.04
1.00	0.04	0.00	0.00	3.60	0.17	0.05	0.04
1.05	0.04	0.00	0.00	3.65	0.17	0.05	0.04
1.10	0.05	0.00	0.00	3.70	0.17	0.05	0.04
1.15	0.05	0.00	0.00	3.75	0.18	0.05	0.04
1.20	0.05	0.00	0.00	3.80	0.18	0.06	0.04
1.25	0.05	0.00	0.00	3.85	0.18	0.06	0.04
1.30	0.06	0.00	0.01	3.90	0.19	0.06	0.04
1.35	0.06	0.00	0.01	3.95	0.19	0.06	0.04
1.40	0.06	0.00	0.01	4.00	0.19	0.06	0.04
1.45	0.06	0.00	0.01	4.05	0.19	0.07	0.04
1.50	0.07	0.00	0.01	4.10	0.20	0.07	0.04
1.55	0.07	0.00	0.01	4.15	0.20	0.07	0.04
1.60	0.07	0.00	0.01	4.20	0.20	0.07	0.04
1.65	0.07	0.00	0.01	4.25	0.21	0.07	0.04
1.70	0.07	0.00	0.01	4.30	0.21	0.08	0.04
1.75	0.08	0.01	0.01	4.35	0.21	0.08	0.04
1.80	0.08	0.01	0.01	4.40	0.21	0.08	0.04
1.85	0.08	0.01	0.02	4.45	0.22	0.08	0.05
1.90	0.08	0.01	0.02	4.50	0.22	0.08	0.05
1.95	0.09	0.01	0.02	4.55	0.22	0.09	0.05
2.00	0.09	0.01	0.02	4.60	0.23	0.09	0.05
2.05	0.09	0.01	0.02	4.65	0.23	0.09	0.05
2.10	0.09	0.01	0.02	4.70	0.23	0.09	0.05
2.15	0.10	0.01	0.02	4.75	0.23	0.09	0.05
2.20	0.10	0.01	0.02	4.80	0.24	0.10	0.05
2.25	0.10	0.01	0.02	4.85	0.24	0.10	0.05
2.30	0.10	0.01	0.02	4.90	0.24	0.10	0.05
2.35	0.11	0.02	0.02	4.95	0.25	0.10	0.05
2.40	0.11	0.02	0.02	5.00	0.25	0.10	0.05
2.45	0.11	0.02	0.02	5.05	0.25	0.11	0.05
2.50	0.11	0.02	0.02	5.10	0.25	0.11	0.05
2.55	0.12	0.02	0.03	5.15	0.26	0.11	0.05

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.26	0.11	0.05	7.80	0.45	0.27	0.09
5.25	0.26	0.12	0.05	7.85	0.45	0.28	0.09
5.30	0.27	0.12	0.05	7.90	0.46	0.28	0.09
5.35	0.27	0.12	0.05	7.95	0.46	0.29	0.09
5.40	0.27	0.12	0.05	8.00	0.47	0.29	0.09
5.45	0.28	0.13	0.05	8.05	0.47	0.29	0.10
5.50	0.28	0.13	0.05	8.10	0.48	0.30	0.10
5.55	0.28	0.13	0.05	8.15	0.48	0.30	0.10
5.60	0.28	0.13	0.05	8.20	0.49	0.31	0.10
5.65	0.29	0.14	0.05	8.25	0.49	0.31	0.10
5.70	0.29	0.14	0.05	8.30	0.50	0.32	0.10
5.75	0.29	0.14	0.06	8.35	0.50	0.32	0.10
5.80	0.30	0.14	0.06	8.40	0.51	0.32	0.10
5.85	0.30	0.15	0.06	8.45	0.51	0.33	0.10
5.90	0.30	0.15	0.06	8.50	0.52	0.33	0.10
5.95	0.31	0.15	0.06	8.55	0.52	0.34	0.10
6.00	0.31	0.15	0.06	8.60	0.53	0.34	0.11
6.05	0.31	0.16	0.06	8.65	0.53	0.35	0.11
6.10	0.32	0.16	0.06	8.70	0.54	0.35	0.11
6.15	0.32	0.16	0.06	8.75	0.54	0.36	0.11
6.20	0.32	0.16	0.06	8.80	0.55	0.36	0.11
6.25	0.33	0.17	0.06	8.85	0.55	0.37	0.11
6.30	0.33	0.17	0.06	8.90	0.56	0.37	0.11
6.35	0.33	0.17	0.06	8.95	0.57	0.38	0.11
6.40	0.34	0.18	0.06	9.00	0.57	0.38	0.11
6.45	0.34	0.18	0.07	9.05	0.58	0.39	0.12
6.50	0.34	0.18	0.07	9.10	0.58	0.39	0.12
6.55	0.35	0.18	0.07	9.15	0.59	0.40	0.12
6.60	0.35	0.19	0.07	9.20	0.59	0.40	0.12
6.65	0.35	0.19	0.07	9.25	0.60	0.41	0.13
6.70	0.36	0.19	0.07	9.30	0.61	0.42	0.13
6.75	0.36	0.20	0.07	9.35	0.61	0.42	0.14
6.80	0.37	0.20	0.07	9.40	0.62	0.43	0.14
6.85	0.37	0.20	0.07	9.45	0.63	0.44	0.14
6.90	0.37	0.21	0.07	9.50	0.63	0.44	0.14
6.95	0.38	0.21	0.07	9.55	0.64	0.45	0.15
7.00	0.38	0.21	0.08	9.60	0.65	0.46	0.15
7.05	0.39	0.22	0.08	9.65	0.66	0.46	0.16
7.10	0.39	0.22	0.08	9.70	0.66	0.47	0.16
7.15	0.39	0.22	0.08	9.75	0.67	0.48	0.16
7.20	0.40	0.23	0.08	9.80	0.68	0.48	0.16
7.25	0.40	0.23	0.08	9.85	0.69	0.49	0.17
7.30	0.41	0.23	0.08	9.90	0.70	0.50	0.17
7.35	0.41	0.24	0.08	9.95	0.70	0.51	0.17
7.40	0.41	0.24	0.08	10.00	0.71	0.52	0.18
7.45	0.42	0.25	0.08	10.05	0.72	0.52	0.18
7.50	0.42	0.25	0.08	10.10	0.73	0.53	0.18
7.55	0.43	0.25	0.09	10.15	0.74	0.54	0.19
7.60	0.43	0.26	0.09	10.20	0.75	0.55	0.19
7.65	0.44	0.26	0.09	10.25	0.76	0.56	0.19
7.70	0.44	0.26	0.09	10.30	0.77	0.57	0.20
7.75	0.45	0.27	0.09	10.35	0.78	0.58	0.20

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.79	0.59	0.20	13.00	2.97	2.74	0.40
10.45	0.80	0.59	0.21	13.05	2.99	2.76	0.37
10.50	0.81	0.60	0.21	13.10	3.00	2.77	0.35
10.55	0.82	0.61	0.22	13.15	3.02	2.79	0.33
10.60	0.83	0.62	0.23	13.20	3.03	2.80	0.32
10.65	0.84	0.64	0.25	13.25	3.04	2.81	0.31
10.70	0.85	0.65	0.26	13.30	3.06	2.83	0.30
10.75	0.87	0.66	0.27	13.35	3.07	2.84	0.28
10.80	0.88	0.67	0.28	13.40	3.08	2.85	0.27
10.85	0.89	0.69	0.30	13.45	3.09	2.86	0.26
10.90	0.91	0.70	0.31	13.50	3.10	2.87	0.25
10.95	0.92	0.72	0.32	13.55	3.11	2.88	0.23
11.00	0.94	0.73	0.33	13.60	3.12	2.89	0.22
11.05	0.96	0.75	0.36	13.65	3.13	2.90	0.22
11.10	0.97	0.77	0.37	13.70	3.14	2.91	0.21
11.15	0.99	0.78	0.40	13.75	3.15	2.92	0.21
11.20	1.01	0.80	0.42	13.80	3.16	2.93	0.21
11.25	1.03	0.82	0.45	13.85	3.17	2.94	0.20
11.30	1.06	0.85	0.47	13.90	3.18	2.95	0.20
11.35	1.08	0.87	0.50	13.95	3.19	2.96	0.20
11.40	1.10	0.89	0.51	14.00	3.20	2.96	0.19
11.45	1.13	0.92	0.54	14.05	3.21	2.97	0.19
11.50	1.16	0.94	0.55	14.10	3.21	2.98	0.19
11.55	1.19	0.98	0.72	14.15	3.22	2.99	0.18
11.60	1.23	1.02	0.82	14.20	3.23	3.00	0.18
11.65	1.28	1.06	0.88	14.25	3.24	3.01	0.18
11.70	1.32	1.10	0.90	14.30	3.25	3.01	0.18
11.75	1.37	1.16	1.10	14.35	3.25	3.02	0.17
11.80	1.43	1.21	1.21	14.40	3.26	3.03	0.17
11.85	1.51	1.29	1.51	14.45	3.27	3.04	0.16
11.90	1.59	1.37	1.68	14.50	3.28	3.04	0.16
11.95	1.73	1.50	2.43	14.55	3.28	3.05	0.16
12.00	1.86	1.64	2.86	14.60	3.29	3.06	0.16
12.05	2.09	1.87	4.11	14.65	3.30	3.06	0.15
12.10	2.32	2.09	**4.79**	14.70	3.30	3.07	0.15
12.15	2.40	2.17	**3.19**	14.75	3.31	3.08	0.15
12.20	2.48	2.25	2.18	14.80	3.32	3.08	0.14
12.25	2.54	2.31	1.59	14.85	3.32	3.09	0.14
12.30	2.59	2.36	1.35	14.90	3.33	3.09	0.14
12.35	2.63	2.40	1.10	14.95	3.33	3.10	0.13
12.40	2.68	2.45	0.97	15.00	3.34	3.11	0.13
12.45	2.72	2.48	0.91	15.05	3.34	3.11	0.13
12.50	2.75	2.52	0.89	15.10	3.35	3.12	0.12
12.55	2.78	2.55	0.71	15.15	3.36	3.12	0.12
12.60	2.81	2.57	0.61	15.20	3.36	3.13	0.12
12.65	2.83	2.60	0.56	15.25	3.37	3.13	0.12
12.70	2.85	2.62	0.54	15.30	3.37	3.14	0.12
12.75	2.88	2.64	0.51	15.35	3.38	3.14	0.12
12.80	2.90	2.67	0.49	15.40	3.38	3.15	0.12
12.85	2.92	2.69	0.46	15.45	3.39	3.15	0.12
12.90	2.94	2.70	0.45	15.50	3.39	3.16	0.12
12.95	2.95	2.72	0.41	15.55	3.40	3.16	0.11

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	3.40	3.17	0.11	18.20	3.61	3.38	0.07
15.65	3.41	3.17	0.11	18.25	3.62	3.38	0.07
15.70	3.41	3.18	0.11	18.30	3.62	3.39	0.07
15.75	3.42	3.18	0.11	18.35	3.62	3.39	0.07
15.80	3.42	3.19	0.11	18.40	3.63	3.39	0.07
15.85	3.43	3.19	0.11	18.45	3.63	3.39	0.07
15.90	3.43	3.20	0.11	18.50	3.63	3.40	0.07
15.95	3.44	3.20	0.11	18.55	3.63	3.40	0.07
16.00	3.44	3.21	0.11	18.60	3.64	3.40	0.07
16.05	3.45	3.21	0.11	18.65	3.64	3.41	0.07
16.10	3.45	3.22	0.11	18.70	3.64	3.41	0.07
16.15	3.46	3.22	0.10	18.75	3.65	3.41	0.07
16.20	3.46	3.23	0.10	18.80	3.65	3.42	0.07
16.25	3.46	3.23	0.10	18.85	3.65	3.42	0.07
16.30	3.47	3.24	0.10	18.90	3.66	3.42	0.07
16.35	3.47	3.24	0.10	18.95	3.66	3.42	0.07
16.40	3.48	3.24	0.10	19.00	3.66	3.43	0.07
16.45	3.48	3.25	0.10	19.05	3.66	3.43	0.07
16.50	3.49	3.25	0.10	19.10	3.67	3.43	0.07
16.55	3.49	3.26	0.10	19.15	3.67	3.44	0.07
16.60	3.50	3.26	0.10	19.20	3.67	3.44	0.07
16.65	3.50	3.27	0.10	19.25	3.68	3.44	0.07
16.70	3.50	3.27	0.09	19.30	3.68	3.44	0.07
16.75	3.51	3.27	0.09	19.35	3.68	3.45	0.06
16.80	3.51	3.28	0.09	19.40	3.68	3.45	0.06
16.85	3.52	3.28	0.09	19.45	3.69	3.45	0.06
16.90	3.52	3.29	0.09	19.50	3.69	3.46	0.06
16.95	3.52	3.29	0.09	19.55	3.69	3.46	0.06
17.00	3.53	3.30	0.09	19.60	3.70	3.46	0.06
17.05	3.53	3.30	0.09	19.65	3.70	3.46	0.06
17.10	3.54	3.30	0.09	19.70	3.70	3.47	0.06
17.15	3.54	3.31	0.09	19.75	3.70	3.47	0.06
17.20	3.54	3.31	0.09	19.80	3.71	3.47	0.06
17.25	3.55	3.31	0.08	19.85	3.71	3.48	0.06
17.30	3.55	3.32	0.08	19.90	3.71	3.48	0.06
17.35	3.56	3.32	0.08	19.95	3.72	3.48	0.06
17.40	3.56	3.33	0.08	20.00	3.72	3.48	0.06
17.45	3.56	3.33	0.08	20.05	3.72	3.49	0.06
17.50	3.57	3.33	0.08	20.10	3.72	3.49	0.06
17.55	3.57	3.34	0.08	20.15	3.73	3.49	0.06
17.60	3.57	3.34	0.08	20.20	3.73	3.50	0.06
17.65	3.58	3.34	0.08	20.25	3.73	3.50	0.06
17.70	3.58	3.35	0.08	20.30	3.74	3.50	0.06
17.75	3.58	3.35	0.08	20.35	3.74	3.50	0.06
17.80	3.59	3.35	0.08	20.40	3.74	3.51	0.06
17.85	3.59	3.36	0.07	20.45	3.74	3.51	0.06
17.90	3.59	3.36	0.07	20.50	3.75	3.51	0.06
17.95	3.60	3.36	0.07	20.55	3.75	3.51	0.06
18.00	3.60	3.37	0.07	20.60	3.75	3.52	0.06
18.05	3.60	3.37	0.07	20.65	3.75	3.52	0.06
18.10	3.61	3.37	0.07	20.70	3.76	3.52	0.06
18.15	3.61	3.38	0.07	20.75	3.76	3.52	0.06

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.76	3.53	0.06	23.40	3.88	3.65	0.05
20.85	3.76	3.53	0.06	23.45	3.89	3.65	0.05
20.90	3.77	3.53	0.06	23.50	3.89	3.65	0.05
20.95	3.77	3.54	0.06	23.55	3.89	3.66	0.05
21.00	3.77	3.54	0.06	23.60	3.89	3.66	0.05
21.05	3.77	3.54	0.06	23.65	3.89	3.66	0.05
21.10	3.78	3.54	0.06	23.70	3.90	3.66	0.05
21.15	3.78	3.55	0.06	23.75	3.90	3.66	0.05
21.20	3.78	3.55	0.06	23.80	3.90	3.67	0.05
21.25	3.78	3.55	0.06	23.85	3.90	3.67	0.05
21.30	3.79	3.55	0.06	23.90	3.90	3.67	0.05
21.35	3.79	3.56	0.06	23.95	3.91	3.67	0.05
21.40	3.79	3.56	0.06	24.00	**3.91**	**3.68**	0.05
21.45	3.79	3.56	0.06				
21.50	3.80	3.56	0.06				
21.55	3.80	3.57	0.06				
21.60	3.80	3.57	0.06				
21.65	3.80	3.57	0.05				
21.70	3.81	3.57	0.05				
21.75	3.81	3.58	0.05				
21.80	3.81	3.58	0.05				
21.85	3.81	3.58	0.05				
21.90	3.82	3.58	0.05				
21.95	3.82	3.58	0.05				
22.00	3.82	3.59	0.05				
22.05	3.82	3.59	0.05				
22.10	3.83	3.59	0.05				
22.15	3.83	3.59	0.05				
22.20	3.83	3.60	0.05				
22.25	3.83	3.60	0.05				
22.30	3.84	3.60	0.05				
22.35	3.84	3.60	0.05				
22.40	3.84	3.61	0.05				
22.45	3.84	3.61	0.05				
22.50	3.84	3.61	0.05				
22.55	3.85	3.61	0.05				
22.60	3.85	3.61	0.05				
22.65	3.85	3.62	0.05				
22.70	3.85	3.62	0.05				
22.75	3.86	3.62	0.05				
22.80	3.86	3.62	0.05				
22.85	3.86	3.63	0.05				
22.90	3.86	3.63	0.05				
22.95	3.87	3.63	0.05				
23.00	3.87	3.63	0.05				
23.05	3.87	3.63	0.05				
23.10	3.87	3.64	0.05				
23.15	3.87	3.64	0.05				
23.20	3.88	3.64	0.05				
23.25	3.88	3.64	0.05				
23.30	3.88	3.65	0.05				
23.35	3.88	3.65	0.05				

Summary for Subcatchment PDA1A PERV: PDA-1A PERV

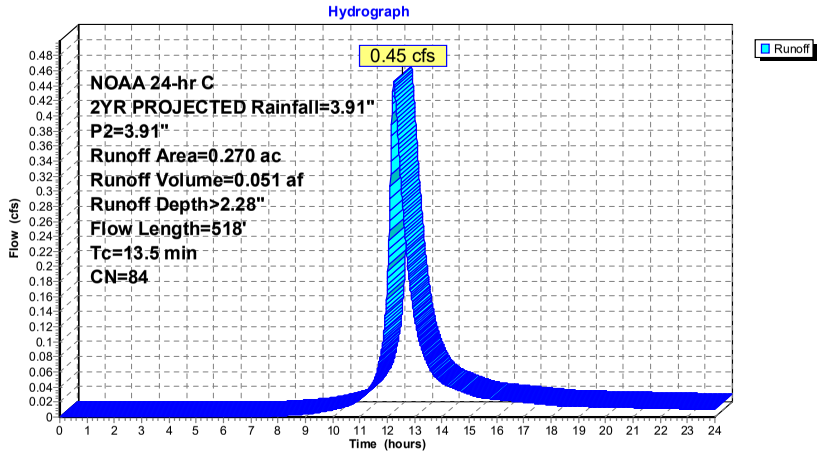
Runoff = 0.45 cfs @ 12.24 hrs, Volume= 0.051 af, Depth> 2.28"
Routed to Link P1A : P1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR PROJECTED Rainfall=3.91", P2=3.91"

	Area (ac)	CN	Description
*	0.270	84	>75% Grass cover, Good, HSG D
	0.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	100	0.0100	0.14		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
0.1	22	0.0075	4.46	7.88	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP-2 Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
13.5	518	Total			

Subcatchment PDA1A PERV: PDA-1A PERV



Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.12	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.12	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.12	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.13	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.13	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.13	0.00	0.00
0.30	0.01	0.00	0.00	2.90	0.13	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.14	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.14	0.00	0.00
0.45	0.02	0.00	0.00	3.05	0.14	0.00	0.00
0.50	0.02	0.00	0.00	3.10	0.14	0.00	0.00
0.55	0.02	0.00	0.00	3.15	0.15	0.00	0.00
0.60	0.03	0.00	0.00	3.20	0.15	0.00	0.00
0.65	0.03	0.00	0.00	3.25	0.15	0.00	0.00
0.70	0.03	0.00	0.00	3.30	0.15	0.00	0.00
0.75	0.03	0.00	0.00	3.35	0.16	0.00	0.00
0.80	0.03	0.00	0.00	3.40	0.16	0.00	0.00
0.85	0.04	0.00	0.00	3.45	0.16	0.00	0.00
0.90	0.04	0.00	0.00	3.50	0.16	0.00	0.00
0.95	0.04	0.00	0.00	3.55	0.17	0.00	0.00
1.00	0.04	0.00	0.00	3.60	0.17	0.00	0.00
1.05	0.04	0.00	0.00	3.65	0.17	0.00	0.00
1.10	0.05	0.00	0.00	3.70	0.17	0.00	0.00
1.15	0.05	0.00	0.00	3.75	0.18	0.00	0.00
1.20	0.05	0.00	0.00	3.80	0.18	0.00	0.00
1.25	0.05	0.00	0.00	3.85	0.18	0.00	0.00
1.30	0.06	0.00	0.00	3.90	0.19	0.00	0.00
1.35	0.06	0.00	0.00	3.95	0.19	0.00	0.00
1.40	0.06	0.00	0.00	4.00	0.19	0.00	0.00
1.45	0.06	0.00	0.00	4.05	0.19	0.00	0.00
1.50	0.07	0.00	0.00	4.10	0.20	0.00	0.00
1.55	0.07	0.00	0.00	4.15	0.20	0.00	0.00
1.60	0.07	0.00	0.00	4.20	0.20	0.00	0.00
1.65	0.07	0.00	0.00	4.25	0.21	0.00	0.00
1.70	0.07	0.00	0.00	4.30	0.21	0.00	0.00
1.75	0.08	0.00	0.00	4.35	0.21	0.00	0.00
1.80	0.08	0.00	0.00	4.40	0.21	0.00	0.00
1.85	0.08	0.00	0.00	4.45	0.22	0.00	0.00
1.90	0.08	0.00	0.00	4.50	0.22	0.00	0.00
1.95	0.09	0.00	0.00	4.55	0.22	0.00	0.00
2.00	0.09	0.00	0.00	4.60	0.23	0.00	0.00
2.05	0.09	0.00	0.00	4.65	0.23	0.00	0.00
2.10	0.09	0.00	0.00	4.70	0.23	0.00	0.00
2.15	0.10	0.00	0.00	4.75	0.23	0.00	0.00
2.20	0.10	0.00	0.00	4.80	0.24	0.00	0.00
2.25	0.10	0.00	0.00	4.85	0.24	0.00	0.00
2.30	0.10	0.00	0.00	4.90	0.24	0.00	0.00
2.35	0.11	0.00	0.00	4.95	0.25	0.00	0.00
2.40	0.11	0.00	0.00	5.00	0.25	0.00	0.00
2.45	0.11	0.00	0.00	5.05	0.25	0.00	0.00
2.50	0.11	0.00	0.00	5.10	0.25	0.00	0.00
2.55	0.12	0.00	0.00	5.15	0.26	0.00	0.00

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.26	0.00	0.00	7.80	0.45	0.00	0.00
5.25	0.26	0.00	0.00	7.85	0.45	0.00	0.00
5.30	0.27	0.00	0.00	7.90	0.46	0.00	0.00
5.35	0.27	0.00	0.00	7.95	0.46	0.00	0.00
5.40	0.27	0.00	0.00	8.00	0.47	0.00	0.00
5.45	0.28	0.00	0.00	8.05	0.47	0.00	0.00
5.50	0.28	0.00	0.00	8.10	0.48	0.00	0.00
5.55	0.28	0.00	0.00	8.15	0.48	0.01	0.00
5.60	0.28	0.00	0.00	8.20	0.49	0.01	0.00
5.65	0.29	0.00	0.00	8.25	0.49	0.01	0.00
5.70	0.29	0.00	0.00	8.30	0.50	0.01	0.00
5.75	0.29	0.00	0.00	8.35	0.50	0.01	0.00
5.80	0.30	0.00	0.00	8.40	0.51	0.01	0.00
5.85	0.30	0.00	0.00	8.45	0.51	0.01	0.00
5.90	0.30	0.00	0.00	8.50	0.52	0.01	0.00
5.95	0.31	0.00	0.00	8.55	0.52	0.01	0.00
6.00	0.31	0.00	0.00	8.60	0.53	0.01	0.00
6.05	0.31	0.00	0.00	8.65	0.53	0.01	0.00
6.10	0.32	0.00	0.00	8.70	0.54	0.01	0.00
6.15	0.32	0.00	0.00	8.75	0.54	0.01	0.00
6.20	0.32	0.00	0.00	8.80	0.55	0.01	0.00
6.25	0.33	0.00	0.00	8.85	0.55	0.01	0.00
6.30	0.33	0.00	0.00	8.90	0.56	0.02	0.00
6.35	0.33	0.00	0.00	8.95	0.57	0.02	0.00
6.40	0.34	0.00	0.00	9.00	0.57	0.02	0.00
6.45	0.34	0.00	0.00	9.05	0.58	0.02	0.00
6.50	0.34	0.00	0.00	9.10	0.58	0.02	0.00
6.55	0.35	0.00	0.00	9.15	0.59	0.02	0.00
6.60	0.35	0.00	0.00	9.20	0.59	0.02	0.00
6.65	0.35	0.00	0.00	9.25	0.60	0.02	0.01
6.70	0.36	0.00	0.00	9.30	0.61	0.02	0.01
6.75	0.36	0.00	0.00	9.35	0.61	0.03	0.01
6.80	0.37	0.00	0.00	9.40	0.62	0.03	0.01
6.85	0.37	0.00	0.00	9.45	0.63	0.03	0.01
6.90	0.37	0.00	0.00	9.50	0.63	0.03	0.01
6.95	0.38	0.00	0.00	9.55	0.64	0.03	0.01
7.00	0.38	0.00	0.00	9.60	0.65	0.03	0.01
7.05	0.39	0.00	0.00	9.65	0.66	0.03	0.01
7.10	0.39	0.00	0.00	9.70	0.66	0.04	0.01
7.15	0.39	0.00	0.00	9.75	0.67	0.04	0.01
7.20	0.40	0.00	0.00	9.80	0.68	0.04	0.01
7.25	0.40	0.00	0.00	9.85	0.69	0.04	0.01
7.30	0.41	0.00	0.00	9.90	0.70	0.04	0.01
7.35	0.41	0.00	0.00	9.95	0.70	0.05	0.01
7.40	0.41	0.00	0.00	10.00	0.71	0.05	0.01
7.45	0.42	0.00	0.00	10.05	0.72	0.05	0.01
7.50	0.42	0.00	0.00	10.10	0.73	0.05	0.01
7.55	0.43	0.00	0.00	10.15	0.74	0.06	0.01
7.60	0.43	0.00	0.00	10.20	0.75	0.06	0.01
7.65	0.44	0.00	0.00	10.25	0.76	0.06	0.01
7.70	0.44	0.00	0.00	10.30	0.77	0.07	0.01
7.75	0.45	0.00	0.00	10.35	0.78	0.07	0.01

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.79	0.07	0.01	13.00	2.97	1.49	0.13
10.45	0.80	0.07	0.01	13.05	2.99	1.51	0.12
10.50	0.81	0.08	0.01	13.10	3.00	1.52	0.11
10.55	0.82	0.08	0.01	13.15	3.02	1.53	0.10
10.60	0.83	0.08	0.02	13.20	3.03	1.54	0.10
10.65	0.84	0.09	0.02	13.25	3.04	1.55	0.09
10.70	0.85	0.09	0.02	13.30	3.06	1.56	0.09
10.75	0.87	0.10	0.02	13.35	3.07	1.57	0.08
10.80	0.88	0.10	0.02	13.40	3.08	1.58	0.08
10.85	0.89	0.11	0.02	13.45	3.09	1.59	0.07
10.90	0.91	0.11	0.02	13.50	3.10	1.60	0.07
10.95	0.92	0.12	0.02	13.55	3.11	1.61	0.06
11.00	0.94	0.13	0.02	13.60	3.12	1.62	0.06
11.05	0.96	0.13	0.03	13.65	3.13	1.63	0.06
11.10	0.97	0.14	0.03	13.70	3.14	1.63	0.06
11.15	0.99	0.15	0.03	13.75	3.15	1.64	0.05
11.20	1.01	0.16	0.03	13.80	3.16	1.65	0.05
11.25	1.03	0.17	0.03	13.85	3.17	1.66	0.05
11.30	1.06	0.18	0.04	13.90	3.18	1.67	0.05
11.35	1.08	0.19	0.04	13.95	3.19	1.67	0.05
11.40	1.10	0.20	0.04	14.00	3.20	1.68	0.05
11.45	1.13	0.21	0.04	14.05	3.21	1.69	0.04
11.50	1.16	0.22	0.05	14.10	3.21	1.69	0.04
11.55	1.19	0.24	0.05	14.15	3.22	1.70	0.04
11.60	1.23	0.26	0.06	14.20	3.23	1.71	0.04
11.65	1.28	0.29	0.06	14.25	3.24	1.71	0.04
11.70	1.32	0.31	0.07	14.30	3.25	1.72	0.04
11.75	1.37	0.34	0.08	14.35	3.25	1.73	0.04
11.80	1.43	0.37	0.09	14.40	3.26	1.73	0.04
11.85	1.51	0.42	0.10	14.45	3.27	1.74	0.04
11.90	1.59	0.47	0.12	14.50	3.28	1.75	0.04
11.95	1.73	0.56	0.14	14.55	3.28	1.75	0.04
12.00	1.86	0.65	0.18	14.60	3.29	1.76	0.04
12.05	2.09	0.81	0.22	14.65	3.30	1.76	0.04
12.10	2.32	0.98	0.29	14.70	3.30	1.77	0.03
12.15	2.40	1.04	0.37	14.75	3.31	1.77	0.03
12.20	2.48	1.10	**0.43**	14.80	3.32	1.78	0.03
12.25	2.54	1.14	**0.44**	14.85	3.32	1.78	0.03
12.30	2.59	1.19	0.42	14.90	3.33	1.79	0.03
12.35	2.63	1.22	0.40	14.95	3.33	1.79	0.03
12.40	2.68	1.25	0.37	15.00	3.34	1.80	0.03
12.45	2.72	1.29	0.34	15.05	3.34	1.80	0.03
12.50	2.75	1.32	0.31	15.10	3.35	1.81	0.03
12.55	2.78	1.34	0.29	15.15	3.36	1.81	0.03
12.60	2.81	1.36	0.26	15.20	3.36	1.82	0.03
12.65	2.83	1.38	0.24	15.25	3.37	1.82	0.03
12.70	2.85	1.40	0.22	15.30	3.37	1.83	0.03
12.75	2.88	1.41	0.20	15.35	3.38	1.83	0.03
12.80	2.90	1.43	0.18	15.40	3.38	1.84	0.03
12.85	2.92	1.45	0.17	15.45	3.39	1.84	0.03
12.90	2.94	1.46	0.15	15.50	3.39	1.84	0.03
12.95	2.95	1.48	0.14	15.55	3.40	1.85	0.03

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	3.40	1.85	0.02	18.20	3.61	2.03	0.02
15.65	3.41	1.86	0.02	18.25	3.62	2.04	0.02
15.70	3.41	1.86	0.02	18.30	3.62	2.04	0.02
15.75	3.42	1.87	0.02	18.35	3.62	2.04	0.02
15.80	3.42	1.87	0.02	18.40	3.63	2.04	0.02
15.85	3.43	1.87	0.02	18.45	3.63	2.05	0.01
15.90	3.43	1.88	0.02	18.50	3.63	2.05	0.01
15.95	3.44	1.88	0.02	18.55	3.63	2.05	0.01
16.00	3.44	1.89	0.02	18.60	3.64	2.05	0.01
16.05	3.45	1.89	0.02	18.65	3.64	2.06	0.01
16.10	3.45	1.89	0.02	18.70	3.64	2.06	0.01
16.15	3.46	1.90	0.02	18.75	3.65	2.06	0.01
16.20	3.46	1.90	0.02	18.80	3.65	2.07	0.01
16.25	3.46	1.91	0.02	18.85	3.65	2.07	0.01
16.30	3.47	1.91	0.02	18.90	3.66	2.07	0.01
16.35	3.47	1.91	0.02	18.95	3.66	2.07	0.01
16.40	3.48	1.92	0.02	19.00	3.66	2.08	0.01
16.45	3.48	1.92	0.02	19.05	3.66	2.08	0.01
16.50	3.49	1.93	0.02	19.10	3.67	2.08	0.01
16.55	3.49	1.93	0.02	19.15	3.67	2.08	0.01
16.60	3.50	1.93	0.02	19.20	3.67	2.09	0.01
16.65	3.50	1.94	0.02	19.25	3.68	2.09	0.01
16.70	3.50	1.94	0.02	19.30	3.68	2.09	0.01
16.75	3.51	1.94	0.02	19.35	3.68	2.09	0.01
16.80	3.51	1.95	0.02	19.40	3.68	2.10	0.01
16.85	3.52	1.95	0.02	19.45	3.69	2.10	0.01
16.90	3.52	1.95	0.02	19.50	3.69	2.10	0.01
16.95	3.52	1.96	0.02	19.55	3.69	2.10	0.01
17.00	3.53	1.96	0.02	19.60	3.70	2.11	0.01
17.05	3.53	1.96	0.02	19.65	3.70	2.11	0.01
17.10	3.54	1.97	0.02	19.70	3.70	2.11	0.01
17.15	3.54	1.97	0.02	19.75	3.70	2.11	0.01
17.20	3.54	1.97	0.02	19.80	3.71	2.12	0.01
17.25	3.55	1.98	0.02	19.85	3.71	2.12	0.01
17.30	3.55	1.98	0.02	19.90	3.71	2.12	0.01
17.35	3.56	1.98	0.02	19.95	3.72	2.12	0.01
17.40	3.56	1.99	0.02	20.00	3.72	2.12	0.01
17.45	3.56	1.99	0.02	20.05	3.72	2.13	0.01
17.50	3.57	1.99	0.02	20.10	3.72	2.13	0.01
17.55	3.57	2.00	0.02	20.15	3.73	2.13	0.01
17.60	3.57	2.00	0.02	20.20	3.73	2.13	0.01
17.65	3.58	2.00	0.02	20.25	3.73	2.14	0.01
17.70	3.58	2.01	0.02	20.30	3.74	2.14	0.01
17.75	3.58	2.01	0.02	20.35	3.74	2.14	0.01
17.80	3.59	2.01	0.02	20.40	3.74	2.14	0.01
17.85	3.59	2.01	0.02	20.45	3.74	2.15	0.01
17.90	3.59	2.02	0.02	20.50	3.75	2.15	0.01
17.95	3.60	2.02	0.02	20.55	3.75	2.15	0.01
18.00	3.60	2.02	0.02	20.60	3.75	2.15	0.01
18.05	3.60	2.03	0.02	20.65	3.75	2.16	0.01
18.10	3.61	2.03	0.02	20.70	3.76	2.16	0.01
18.15	3.61	2.03	0.02	20.75	3.76	2.16	0.01

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.76	2.16	0.01	23.40	3.88	2.27	0.01
20.85	3.76	2.16	0.01	23.45	3.89	2.27	0.01
20.90	3.77	2.17	0.01	23.50	3.89	2.27	0.01
20.95	3.77	2.17	0.01	23.55	3.89	2.28	0.01
21.00	3.77	2.17	0.01	23.60	3.89	2.28	0.01
21.05	3.77	2.17	0.01	23.65	3.89	2.28	0.01
21.10	3.78	2.18	0.01	23.70	3.90	2.28	0.01
21.15	3.78	2.18	0.01	23.75	3.90	2.28	0.01
21.20	3.78	2.18	0.01	23.80	3.90	2.28	0.01
21.25	3.78	2.18	0.01	23.85	3.90	2.29	0.01
21.30	3.79	2.18	0.01	23.90	3.90	2.29	0.01
21.35	3.79	2.19	0.01	23.95	3.91	2.29	0.01
21.40	3.79	2.19	0.01	24.00	**3.91**	**2.29**	0.01
21.45	3.79	2.19	0.01				
21.50	3.80	2.19	0.01				
21.55	3.80	2.20	0.01				
21.60	3.80	2.20	0.01				
21.65	3.80	2.20	0.01				
21.70	3.81	2.20	0.01				
21.75	3.81	2.20	0.01				
21.80	3.81	2.21	0.01				
21.85	3.81	2.21	0.01				
21.90	3.82	2.21	0.01				
21.95	3.82	2.21	0.01				
22.00	3.82	2.21	0.01				
22.05	3.82	2.22	0.01				
22.10	3.83	2.22	0.01				
22.15	3.83	2.22	0.01				
22.20	3.83	2.22	0.01				
22.25	3.83	2.22	0.01				
22.30	3.84	2.23	0.01				
22.35	3.84	2.23	0.01				
22.40	3.84	2.23	0.01				
22.45	3.84	2.23	0.01				
22.50	3.84	2.23	0.01				
22.55	3.85	2.24	0.01				
22.60	3.85	2.24	0.01				
22.65	3.85	2.24	0.01				
22.70	3.85	2.24	0.01				
22.75	3.86	2.24	0.01				
22.80	3.86	2.25	0.01				
22.85	3.86	2.25	0.01				
22.90	3.86	2.25	0.01				
22.95	3.87	2.25	0.01				
23.00	3.87	2.25	0.01				
23.05	3.87	2.26	0.01				
23.10	3.87	2.26	0.01				
23.15	3.87	2.26	0.01				
23.20	3.88	2.26	0.01				
23.25	3.88	2.26	0.01				
23.30	3.88	2.27	0.01				
23.35	3.88	2.27	0.01				

Summary for Subcatchment PDA1B IMP: PDA1B IMP

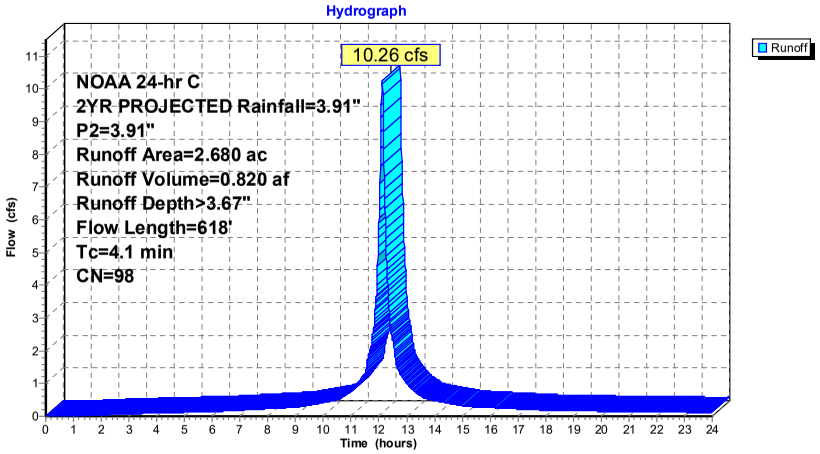
Runoff = 10.26 cfs @ 12.12 hrs, Volume= 0.820 af, Depth> 3.67"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR PROJECTED Rainfall=3.91", P2=3.91"

	Area (ac)	CN	Description
	0.100	96	Gravel surface, HSG A
	0.070	96	Gravel surface, HSG D
*	0.190	98	Impervious vehicular
	2.210	98	Roofs, HSG D
*	0.110	98	Impervious non vehicular, HSG D
	2.680	98	Weighted Average
	0.170		6.34% Pervious Area
	2.510		93.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	8	0.0100	0.70		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.1	16	0.0150	1.84		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.9	93	0.0011	1.71	3.02	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
4.1	618	Total			

Subcatchment PDA1B IMP: PDA1B IMP



Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.12	0.02	0.06
0.05	0.00	0.00	0.00	2.65	0.12	0.02	0.06
0.10	0.01	0.00	0.00	2.70	0.12	0.02	0.06
0.15	0.01	0.00	0.00	2.75	0.13	0.02	0.07
0.20	0.01	0.00	0.00	2.80	0.13	0.03	0.07
0.25	0.01	0.00	0.00	2.85	0.13	0.03	0.07
0.30	0.01	0.00	0.00	2.90	0.13	0.03	0.07
0.35	0.02	0.00	0.00	2.95	0.14	0.03	0.07
0.40	0.02	0.00	0.00	3.00	0.14	0.03	0.07
0.45	0.02	0.00	0.00	3.05	0.14	0.03	0.07
0.50	0.02	0.00	0.00	3.10	0.14	0.03	0.08
0.55	0.02	0.00	0.00	3.15	0.15	0.04	0.08
0.60	0.03	0.00	0.00	3.20	0.15	0.04	0.08
0.65	0.03	0.00	0.00	3.25	0.15	0.04	0.08
0.70	0.03	0.00	0.00	3.30	0.15	0.04	0.08
0.75	0.03	0.00	0.00	3.35	0.16	0.04	0.08
0.80	0.03	0.00	0.00	3.40	0.16	0.04	0.08
0.85	0.04	0.00	0.00	3.45	0.16	0.04	0.08
0.90	0.04	0.00	0.00	3.50	0.16	0.05	0.09
0.95	0.04	0.00	0.00	3.55	0.17	0.05	0.09
1.00	0.04	0.00	0.00	3.60	0.17	0.05	0.09
1.05	0.04	0.00	0.00	3.65	0.17	0.05	0.09
1.10	0.05	0.00	0.00	3.70	0.17	0.05	0.09
1.15	0.05	0.00	0.00	3.75	0.18	0.05	0.09
1.20	0.05	0.00	0.01	3.80	0.18	0.06	0.09
1.25	0.05	0.00	0.01	3.85	0.18	0.06	0.09
1.30	0.06	0.00	0.01	3.90	0.19	0.06	0.10
1.35	0.06	0.00	0.01	3.95	0.19	0.06	0.10
1.40	0.06	0.00	0.02	4.00	0.19	0.06	0.10
1.45	0.06	0.00	0.02	4.05	0.19	0.07	0.10
1.50	0.07	0.00	0.02	4.10	0.20	0.07	0.10
1.55	0.07	0.00	0.02	4.15	0.20	0.07	0.10
1.60	0.07	0.00	0.02	4.20	0.20	0.07	0.10
1.65	0.07	0.00	0.03	4.25	0.21	0.07	0.10
1.70	0.07	0.00	0.03	4.30	0.21	0.08	0.10
1.75	0.08	0.01	0.03	4.35	0.21	0.08	0.11
1.80	0.08	0.01	0.03	4.40	0.21	0.08	0.11
1.85	0.08	0.01	0.03	4.45	0.22	0.08	0.11
1.90	0.08	0.01	0.04	4.50	0.22	0.08	0.11
1.95	0.09	0.01	0.04	4.55	0.22	0.09	0.11
2.00	0.09	0.01	0.04	4.60	0.23	0.09	0.11
2.05	0.09	0.01	0.04	4.65	0.23	0.09	0.11
2.10	0.09	0.01	0.04	4.70	0.23	0.09	0.11
2.15	0.10	0.01	0.05	4.75	0.23	0.09	0.11
2.20	0.10	0.01	0.05	4.80	0.24	0.10	0.11
2.25	0.10	0.01	0.05	4.85	0.24	0.10	0.12
2.30	0.10	0.01	0.05	4.90	0.24	0.10	0.12
2.35	0.11	0.02	0.05	4.95	0.25	0.10	0.12
2.40	0.11	0.02	0.05	5.00	0.25	0.10	0.12
2.45	0.11	0.02	0.06	5.05	0.25	0.11	0.12
2.50	0.11	0.02	0.06	5.10	0.25	0.11	0.12
2.55	0.12	0.02	0.06	5.15	0.26	0.11	0.12

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.26	0.11	0.12	7.80	0.45	0.27	0.22
5.25	0.26	0.12	0.12	7.85	0.45	0.28	0.22
5.30	0.27	0.12	0.12	7.90	0.46	0.28	0.22
5.35	0.27	0.12	0.13	7.95	0.46	0.29	0.22
5.40	0.27	0.12	0.13	8.00	0.47	0.29	0.23
5.45	0.28	0.13	0.13	8.05	0.47	0.29	0.23
5.50	0.28	0.13	0.13	8.10	0.48	0.30	0.23
5.55	0.28	0.13	0.13	8.15	0.48	0.30	0.23
5.60	0.28	0.13	0.13	8.20	0.49	0.31	0.23
5.65	0.29	0.14	0.13	8.25	0.49	0.31	0.24
5.70	0.29	0.14	0.13	8.30	0.50	0.32	0.24
5.75	0.29	0.14	0.13	8.35	0.50	0.32	0.24
5.80	0.30	0.14	0.13	8.40	0.51	0.32	0.24
5.85	0.30	0.15	0.13	8.45	0.51	0.33	0.25
5.90	0.30	0.15	0.14	8.50	0.52	0.33	0.25
5.95	0.31	0.15	0.14	8.55	0.52	0.34	0.25
6.00	0.31	0.15	0.14	8.60	0.53	0.34	0.25
6.05	0.31	0.16	0.14	8.65	0.53	0.35	0.25
6.10	0.32	0.16	0.14	8.70	0.54	0.35	0.26
6.15	0.32	0.16	0.14	8.75	0.54	0.36	0.26
6.20	0.32	0.16	0.14	8.80	0.55	0.36	0.26
6.25	0.33	0.17	0.15	8.85	0.55	0.37	0.26
6.30	0.33	0.17	0.15	8.90	0.56	0.37	0.27
6.35	0.33	0.17	0.15	8.95	0.57	0.38	0.27
6.40	0.34	0.18	0.15	9.00	0.57	0.38	0.27
6.45	0.34	0.18	0.16	9.05	0.58	0.39	0.28
6.50	0.34	0.18	0.16	9.10	0.58	0.39	0.28
6.55	0.35	0.18	0.16	9.15	0.59	0.40	0.29
6.60	0.35	0.19	0.16	9.20	0.59	0.40	0.30
6.65	0.35	0.19	0.16	9.25	0.60	0.41	0.30
6.70	0.36	0.19	0.17	9.30	0.61	0.42	0.31
6.75	0.36	0.20	0.17	9.35	0.61	0.42	0.32
6.80	0.37	0.20	0.17	9.40	0.62	0.43	0.33
6.85	0.37	0.20	0.17	9.45	0.63	0.44	0.33
6.90	0.37	0.21	0.17	9.50	0.63	0.44	0.34
6.95	0.38	0.21	0.18	9.55	0.64	0.45	0.35
7.00	0.38	0.21	0.18	9.60	0.65	0.46	0.36
7.05	0.39	0.22	0.18	9.65	0.66	0.46	0.37
7.10	0.39	0.22	0.18	9.70	0.66	0.47	0.37
7.15	0.39	0.22	0.19	9.75	0.67	0.48	0.38
7.20	0.40	0.23	0.19	9.80	0.68	0.48	0.39
7.25	0.40	0.23	0.19	9.85	0.69	0.49	0.40
7.30	0.41	0.23	0.19	9.90	0.70	0.50	0.41
7.35	0.41	0.24	0.19	9.95	0.70	0.51	0.41
7.40	0.41	0.24	0.20	10.00	0.71	0.52	0.42
7.45	0.42	0.25	0.20	10.05	0.72	0.52	0.43
7.50	0.42	0.25	0.20	10.10	0.73	0.53	0.44
7.55	0.43	0.25	0.20	10.15	0.74	0.54	0.44
7.60	0.43	0.26	0.21	10.20	0.75	0.55	0.45
7.65	0.44	0.26	0.21	10.25	0.76	0.56	0.46
7.70	0.44	0.26	0.21	10.30	0.77	0.57	0.47
7.75	0.45	0.27	0.21	10.35	0.78	0.58	0.48

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.79	0.59	0.48	13.00	2.97	2.74	1.01
10.45	0.80	0.59	0.49	13.05	2.99	2.76	0.95
10.50	0.81	0.60	0.50	13.10	3.00	2.77	0.90
10.55	0.82	0.61	0.52	13.15	3.02	2.79	0.85
10.60	0.83	0.62	0.54	13.20	3.03	2.80	0.81
10.65	0.84	0.64	0.57	13.25	3.04	2.81	0.78
10.70	0.85	0.65	0.60	13.30	3.06	2.83	0.75
10.75	0.87	0.66	0.63	13.35	3.07	2.84	0.72
10.80	0.88	0.67	0.66	13.40	3.08	2.85	0.69
10.85	0.89	0.69	0.68	13.45	3.09	2.86	0.66
10.90	0.91	0.70	0.72	13.50	3.10	2.87	0.63
10.95	0.92	0.72	0.74	13.55	3.11	2.88	0.60
11.00	0.94	0.73	0.78	13.60	3.12	2.89	0.57
11.05	0.96	0.75	0.82	13.65	3.13	2.90	0.55
11.10	0.97	0.77	0.87	13.70	3.14	2.91	0.53
11.15	0.99	0.78	0.92	13.75	3.15	2.92	0.52
11.20	1.01	0.80	0.97	13.80	3.16	2.93	0.51
11.25	1.03	0.82	1.03	13.85	3.17	2.94	0.50
11.30	1.06	0.85	1.08	13.90	3.18	2.95	0.49
11.35	1.08	0.87	1.14	13.95	3.19	2.96	0.49
11.40	1.10	0.89	1.20	14.00	3.20	2.96	0.48
11.45	1.13	0.92	1.25	14.05	3.21	2.97	0.47
11.50	1.16	0.94	1.29	14.10	3.21	2.98	0.46
11.55	1.19	0.98	1.48	14.15	3.22	2.99	0.45
11.60	1.23	1.02	1.77	14.20	3.23	3.00	0.45
11.65	1.28	1.06	1.95	14.25	3.24	3.01	0.44
11.70	1.32	1.10	2.07	14.30	3.25	3.01	0.43
11.75	1.37	1.16	2.32	14.35	3.25	3.02	0.42
11.80	1.43	1.21	2.66	14.40	3.26	3.03	0.41
11.85	1.51	1.29	3.10	14.45	3.27	3.04	0.41
11.90	1.59	1.37	3.63	14.50	3.28	3.04	0.40
11.95	1.73	1.50	4.60	14.55	3.28	3.05	0.39
12.00	1.86	1.64	5.88	14.60	3.29	3.06	0.38
12.05	2.09	1.87	7.65	14.65	3.30	3.06	0.37
12.10	2.32	2.09	**9.84**	14.70	3.30	3.07	0.37
12.15	2.40	2.17	**9.27**	14.75	3.31	3.08	0.36
12.20	2.48	2.25	6.95	14.80	3.32	3.08	0.35
12.25	2.54	2.31	5.44	14.85	3.32	3.09	0.34
12.30	2.59	2.36	4.31	14.90	3.33	3.09	0.34
12.35	2.63	2.40	3.49	14.95	3.33	3.10	0.33
12.40	2.68	2.45	2.85	15.00	3.34	3.11	0.32
12.45	2.72	2.48	2.51	15.05	3.34	3.11	0.31
12.50	2.75	2.52	2.31	15.10	3.35	3.12	0.30
12.55	2.78	2.55	2.03	15.15	3.36	3.12	0.30
12.60	2.81	2.57	1.71	15.20	3.36	3.13	0.29
12.65	2.83	2.60	1.53	15.25	3.37	3.13	0.29
12.70	2.85	2.62	1.41	15.30	3.37	3.14	0.29
12.75	2.88	2.64	1.32	15.35	3.38	3.14	0.29
12.80	2.90	2.67	1.24	15.40	3.38	3.15	0.29
12.85	2.92	2.69	1.18	15.45	3.39	3.15	0.28
12.90	2.94	2.70	1.12	15.50	3.39	3.16	0.28
12.95	2.95	2.72	1.07	15.55	3.40	3.16	0.28

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	3.40	3.17	0.28	18.20	3.61	3.38	0.17
15.65	3.41	3.17	0.27	18.25	3.62	3.38	0.17
15.70	3.41	3.18	0.27	18.30	3.62	3.39	0.17
15.75	3.42	3.18	0.27	18.35	3.62	3.39	0.17
15.80	3.42	3.19	0.27	18.40	3.63	3.39	0.17
15.85	3.43	3.19	0.27	18.45	3.63	3.39	0.17
15.90	3.43	3.20	0.26	18.50	3.63	3.40	0.17
15.95	3.44	3.20	0.26	18.55	3.63	3.40	0.17
16.00	3.44	3.21	0.26	18.60	3.64	3.40	0.16
16.05	3.45	3.21	0.26	18.65	3.64	3.41	0.16
16.10	3.45	3.22	0.26	18.70	3.64	3.41	0.16
16.15	3.46	3.22	0.25	18.75	3.65	3.41	0.16
16.20	3.46	3.23	0.25	18.80	3.65	3.42	0.16
16.25	3.46	3.23	0.25	18.85	3.65	3.42	0.16
16.30	3.47	3.24	0.25	18.90	3.66	3.42	0.16
16.35	3.47	3.24	0.25	18.95	3.66	3.42	0.16
16.40	3.48	3.24	0.24	19.00	3.66	3.43	0.16
16.45	3.48	3.25	0.24	19.05	3.66	3.43	0.16
16.50	3.49	3.25	0.24	19.10	3.67	3.43	0.16
16.55	3.49	3.26	0.24	19.15	3.67	3.44	0.16
16.60	3.50	3.26	0.23	19.20	3.67	3.44	0.16
16.65	3.50	3.27	0.23	19.25	3.68	3.44	0.16
16.70	3.50	3.27	0.23	19.30	3.68	3.44	0.16
16.75	3.51	3.27	0.23	19.35	3.68	3.45	0.16
16.80	3.51	3.28	0.23	19.40	3.68	3.45	0.16
16.85	3.52	3.28	0.22	19.45	3.69	3.45	0.16
16.90	3.52	3.29	0.22	19.50	3.69	3.46	0.16
16.95	3.52	3.29	0.22	19.55	3.69	3.46	0.15
17.00	3.53	3.30	0.22	19.60	3.70	3.46	0.15
17.05	3.53	3.30	0.22	19.65	3.70	3.46	0.15
17.10	3.54	3.30	0.21	19.70	3.70	3.47	0.15
17.15	3.54	3.31	0.21	19.75	3.70	3.47	0.15
17.20	3.54	3.31	0.21	19.80	3.71	3.47	0.15
17.25	3.55	3.31	0.21	19.85	3.71	3.48	0.15
17.30	3.55	3.32	0.20	19.90	3.71	3.48	0.15
17.35	3.56	3.32	0.20	19.95	3.72	3.48	0.15
17.40	3.56	3.33	0.20	20.00	3.72	3.48	0.15
17.45	3.56	3.33	0.20	20.05	3.72	3.49	0.15
17.50	3.57	3.33	0.20	20.10	3.72	3.49	0.15
17.55	3.57	3.34	0.20	20.15	3.73	3.49	0.15
17.60	3.57	3.34	0.19	20.20	3.73	3.50	0.15
17.65	3.58	3.34	0.19	20.25	3.73	3.50	0.15
17.70	3.58	3.35	0.19	20.30	3.74	3.50	0.15
17.75	3.58	3.35	0.19	20.35	3.74	3.50	0.15
17.80	3.59	3.35	0.18	20.40	3.74	3.51	0.15
17.85	3.59	3.36	0.18	20.45	3.74	3.51	0.15
17.90	3.59	3.36	0.18	20.50	3.75	3.51	0.14
17.95	3.60	3.36	0.18	20.55	3.75	3.51	0.14
18.00	3.60	3.37	0.18	20.60	3.75	3.52	0.14
18.05	3.60	3.37	0.17	20.65	3.75	3.52	0.14
18.10	3.61	3.37	0.17	20.70	3.76	3.52	0.14
18.15	3.61	3.38	0.17	20.75	3.76	3.52	0.14

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.76	3.53	0.14	23.40	3.88	3.65	0.12
20.85	3.76	3.53	0.14	23.45	3.89	3.65	0.11
20.90	3.77	3.53	0.14	23.50	3.89	3.65	0.11
20.95	3.77	3.54	0.14	23.55	3.89	3.66	0.11
21.00	3.77	3.54	0.14	23.60	3.89	3.66	0.11
21.05	3.77	3.54	0.14	23.65	3.89	3.66	0.11
21.10	3.78	3.54	0.14	23.70	3.90	3.66	0.11
21.15	3.78	3.55	0.14	23.75	3.90	3.66	0.11
21.20	3.78	3.55	0.14	23.80	3.90	3.67	0.11
21.25	3.78	3.55	0.14	23.85	3.90	3.67	0.11
21.30	3.79	3.55	0.14	23.90	3.90	3.67	0.11
21.35	3.79	3.56	0.14	23.95	3.91	3.67	0.11
21.40	3.79	3.56	0.14	24.00	**3.91**	**3.68**	0.12
21.45	3.79	3.56	0.14				
21.50	3.80	3.56	0.13				
21.55	3.80	3.57	0.13				
21.60	3.80	3.57	0.13				
21.65	3.80	3.57	0.13				
21.70	3.81	3.57	0.13				
21.75	3.81	3.58	0.13				
21.80	3.81	3.58	0.13				
21.85	3.81	3.58	0.13				
21.90	3.82	3.58	0.13				
21.95	3.82	3.58	0.13				
22.00	3.82	3.59	0.13				
22.05	3.82	3.59	0.13				
22.10	3.83	3.59	0.13				
22.15	3.83	3.59	0.13				
22.20	3.83	3.60	0.13				
22.25	3.83	3.60	0.13				
22.30	3.84	3.60	0.13				
22.35	3.84	3.60	0.13				
22.40	3.84	3.61	0.13				
22.45	3.84	3.61	0.12				
22.50	3.84	3.61	0.12				
22.55	3.85	3.61	0.12				
22.60	3.85	3.61	0.12				
22.65	3.85	3.62	0.12				
22.70	3.85	3.62	0.12				
22.75	3.86	3.62	0.12				
22.80	3.86	3.62	0.12				
22.85	3.86	3.63	0.12				
22.90	3.86	3.63	0.12				
22.95	3.87	3.63	0.12				
23.00	3.87	3.63	0.12				
23.05	3.87	3.63	0.12				
23.10	3.87	3.64	0.12				
23.15	3.87	3.64	0.12				
23.20	3.88	3.64	0.12				
23.25	3.88	3.64	0.12				
23.30	3.88	3.65	0.12				
23.35	3.88	3.65	0.12				

Summary for Subcatchment PDA1B PERV: PDA-1B PERV

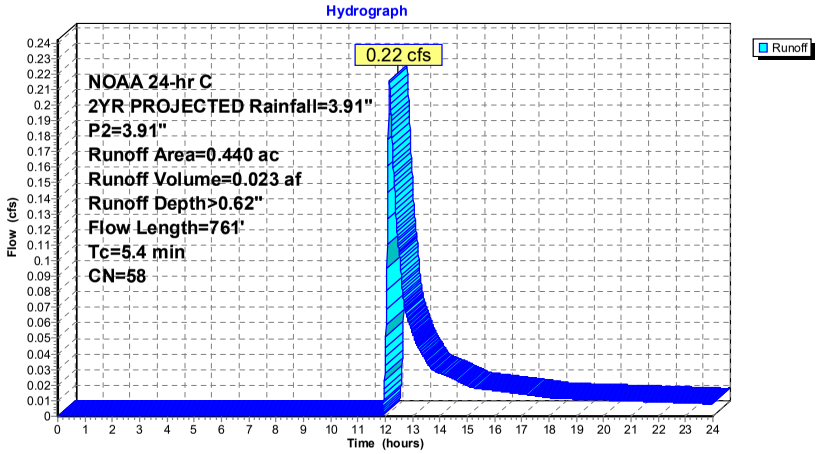
Runoff = 0.22 cfs @ 12.15 hrs, Volume= 0.023 af, Depth> 0.62"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR PROJECTED Rainfall=3.91", P2=3.91"

	Area (ac)	CN	Description
	0.250	39	>75% Grass cover, Good, HSG A
*	0.190	84	>75% Grass cover, Good, HSG D
	0.440	58	Weighted Average
	0.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	93	0.0100	1.14		**Sheet Flow, Grass** Smooth surfaces n= 0.011 P2= 3.91"
0.8	74	0.0100	1.50		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.3	93	0.0110	5.40	9.55	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
5.4	761	Total			

Subcatchment PDA1B PERV: PDA-1B PERV



Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.12	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.12	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.12	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.13	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.13	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.13	0.00	0.00
0.30	0.01	0.00	0.00	2.90	0.13	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.14	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.14	0.00	0.00
0.45	0.02	0.00	0.00	3.05	0.14	0.00	0.00
0.50	0.02	0.00	0.00	3.10	0.14	0.00	0.00
0.55	0.02	0.00	0.00	3.15	0.15	0.00	0.00
0.60	0.03	0.00	0.00	3.20	0.15	0.00	0.00
0.65	0.03	0.00	0.00	3.25	0.15	0.00	0.00
0.70	0.03	0.00	0.00	3.30	0.15	0.00	0.00
0.75	0.03	0.00	0.00	3.35	0.16	0.00	0.00
0.80	0.03	0.00	0.00	3.40	0.16	0.00	0.00
0.85	0.04	0.00	0.00	3.45	0.16	0.00	0.00
0.90	0.04	0.00	0.00	3.50	0.16	0.00	0.00
0.95	0.04	0.00	0.00	3.55	0.17	0.00	0.00
1.00	0.04	0.00	0.00	3.60	0.17	0.00	0.00
1.05	0.04	0.00	0.00	3.65	0.17	0.00	0.00
1.10	0.05	0.00	0.00	3.70	0.17	0.00	0.00
1.15	0.05	0.00	0.00	3.75	0.18	0.00	0.00
1.20	0.05	0.00	0.00	3.80	0.18	0.00	0.00
1.25	0.05	0.00	0.00	3.85	0.18	0.00	0.00
1.30	0.06	0.00	0.00	3.90	0.19	0.00	0.00
1.35	0.06	0.00	0.00	3.95	0.19	0.00	0.00
1.40	0.06	0.00	0.00	4.00	0.19	0.00	0.00
1.45	0.06	0.00	0.00	4.05	0.19	0.00	0.00
1.50	0.07	0.00	0.00	4.10	0.20	0.00	0.00
1.55	0.07	0.00	0.00	4.15	0.20	0.00	0.00
1.60	0.07	0.00	0.00	4.20	0.20	0.00	0.00
1.65	0.07	0.00	0.00	4.25	0.21	0.00	0.00
1.70	0.07	0.00	0.00	4.30	0.21	0.00	0.00
1.75	0.08	0.00	0.00	4.35	0.21	0.00	0.00
1.80	0.08	0.00	0.00	4.40	0.21	0.00	0.00
1.85	0.08	0.00	0.00	4.45	0.22	0.00	0.00
1.90	0.08	0.00	0.00	4.50	0.22	0.00	0.00
1.95	0.09	0.00	0.00	4.55	0.22	0.00	0.00
2.00	0.09	0.00	0.00	4.60	0.23	0.00	0.00
2.05	0.09	0.00	0.00	4.65	0.23	0.00	0.00
2.10	0.09	0.00	0.00	4.70	0.23	0.00	0.00
2.15	0.10	0.00	0.00	4.75	0.23	0.00	0.00
2.20	0.10	0.00	0.00	4.80	0.24	0.00	0.00
2.25	0.10	0.00	0.00	4.85	0.24	0.00	0.00
2.30	0.10	0.00	0.00	4.90	0.24	0.00	0.00
2.35	0.11	0.00	0.00	4.95	0.25	0.00	0.00
2.40	0.11	0.00	0.00	5.00	0.25	0.00	0.00
2.45	0.11	0.00	0.00	5.05	0.25	0.00	0.00
2.50	0.11	0.00	0.00	5.10	0.25	0.00	0.00
2.55	0.12	0.00	0.00	5.15	0.26	0.00	0.00

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.26	0.00	0.00	7.80	0.45	0.00	0.00
5.25	0.26	0.00	0.00	7.85	0.45	0.00	0.00
5.30	0.27	0.00	0.00	7.90	0.46	0.00	0.00
5.35	0.27	0.00	0.00	7.95	0.46	0.00	0.00
5.40	0.27	0.00	0.00	8.00	0.47	0.00	0.00
5.45	0.28	0.00	0.00	8.05	0.47	0.00	0.00
5.50	0.28	0.00	0.00	8.10	0.48	0.00	0.00
5.55	0.28	0.00	0.00	8.15	0.48	0.00	0.00
5.60	0.28	0.00	0.00	8.20	0.49	0.00	0.00
5.65	0.29	0.00	0.00	8.25	0.49	0.00	0.00
5.70	0.29	0.00	0.00	8.30	0.50	0.00	0.00
5.75	0.29	0.00	0.00	8.35	0.50	0.00	0.00
5.80	0.30	0.00	0.00	8.40	0.51	0.00	0.00
5.85	0.30	0.00	0.00	8.45	0.51	0.00	0.00
5.90	0.30	0.00	0.00	8.50	0.52	0.00	0.00
5.95	0.31	0.00	0.00	8.55	0.52	0.00	0.00
6.00	0.31	0.00	0.00	8.60	0.53	0.00	0.00
6.05	0.31	0.00	0.00	8.65	0.53	0.00	0.00
6.10	0.32	0.00	0.00	8.70	0.54	0.00	0.00
6.15	0.32	0.00	0.00	8.75	0.54	0.00	0.00
6.20	0.32	0.00	0.00	8.80	0.55	0.00	0.00
6.25	0.33	0.00	0.00	8.85	0.55	0.00	0.00
6.30	0.33	0.00	0.00	8.90	0.56	0.00	0.00
6.35	0.33	0.00	0.00	8.95	0.57	0.00	0.00
6.40	0.34	0.00	0.00	9.00	0.57	0.00	0.00
6.45	0.34	0.00	0.00	9.05	0.58	0.00	0.00
6.50	0.34	0.00	0.00	9.10	0.58	0.00	0.00
6.55	0.35	0.00	0.00	9.15	0.59	0.00	0.00
6.60	0.35	0.00	0.00	9.20	0.59	0.00	0.00
6.65	0.35	0.00	0.00	9.25	0.60	0.00	0.00
6.70	0.36	0.00	0.00	9.30	0.61	0.00	0.00
6.75	0.36	0.00	0.00	9.35	0.61	0.00	0.00
6.80	0.37	0.00	0.00	9.40	0.62	0.00	0.00
6.85	0.37	0.00	0.00	9.45	0.63	0.00	0.00
6.90	0.37	0.00	0.00	9.50	0.63	0.00	0.00
6.95	0.38	0.00	0.00	9.55	0.64	0.00	0.00
7.00	0.38	0.00	0.00	9.60	0.65	0.00	0.00
7.05	0.39	0.00	0.00	9.65	0.66	0.00	0.00
7.10	0.39	0.00	0.00	9.70	0.66	0.00	0.00
7.15	0.39	0.00	0.00	9.75	0.67	0.00	0.00
7.20	0.40	0.00	0.00	9.80	0.68	0.00	0.00
7.25	0.40	0.00	0.00	9.85	0.69	0.00	0.00
7.30	0.41	0.00	0.00	9.90	0.70	0.00	0.00
7.35	0.41	0.00	0.00	9.95	0.70	0.00	0.00
7.40	0.41	0.00	0.00	10.00	0.71	0.00	0.00
7.45	0.42	0.00	0.00	10.05	0.72	0.00	0.00
7.50	0.42	0.00	0.00	10.10	0.73	0.00	0.00
7.55	0.43	0.00	0.00	10.15	0.74	0.00	0.00
7.60	0.43	0.00	0.00	10.20	0.75	0.00	0.00
7.65	0.44	0.00	0.00	10.25	0.76	0.00	0.00
7.70	0.44	0.00	0.00	10.30	0.77	0.00	0.00
7.75	0.45	0.00	0.00	10.35	0.78	0.00	0.00

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.79	0.00	0.00	13.00	2.97	0.26	0.05
10.45	0.80	0.00	0.00	13.05	2.99	0.27	0.05
10.50	0.81	0.00	0.00	13.10	3.00	0.27	0.05
10.55	0.82	0.00	0.00	13.15	3.02	0.28	0.05
10.60	0.83	0.00	0.00	13.20	3.03	0.28	0.04
10.65	0.84	0.00	0.00	13.25	3.04	0.29	0.04
10.70	0.85	0.00	0.00	13.30	3.06	0.29	0.04
10.75	0.87	0.00	0.00	13.35	3.07	0.30	0.04
10.80	0.88	0.00	0.00	13.40	3.08	0.30	0.04
10.85	0.89	0.00	0.00	13.45	3.09	0.30	0.04
10.90	0.91	0.00	0.00	13.50	3.10	0.31	0.04
10.95	0.92	0.00	0.00	13.55	3.11	0.31	0.03
11.00	0.94	0.00	0.00	13.60	3.12	0.31	0.03
11.05	0.96	0.00	0.00	13.65	3.13	0.32	0.03
11.10	0.97	0.00	0.00	13.70	3.14	0.32	0.03
11.15	0.99	0.00	0.00	13.75	3.15	0.32	0.03
11.20	1.01	0.00	0.00	13.80	3.16	0.33	0.03
11.25	1.03	0.00	0.00	13.85	3.17	0.33	0.03
11.30	1.06	0.00	0.00	13.90	3.18	0.33	0.03
11.35	1.08	0.00	0.00	13.95	3.19	0.34	0.03
11.40	1.10	0.00	0.00	14.00	3.20	0.34	0.03
11.45	1.13	0.00	0.00	14.05	3.21	0.34	0.03
11.50	1.16	0.00	0.00	14.10	3.21	0.35	0.03
11.55	1.19	0.00	0.00	14.15	3.22	0.35	0.03
11.60	1.23	0.00	0.00	14.20	3.23	0.35	0.03
11.65	1.28	0.00	0.00	14.25	3.24	0.35	0.03
11.70	1.32	0.00	0.00	14.30	3.25	0.36	0.03
11.75	1.37	0.00	0.00	14.35	3.25	0.36	0.03
11.80	1.43	0.00	0.00	14.40	3.26	0.36	0.02
11.85	1.51	0.00	0.00	14.45	3.27	0.37	0.02
11.90	1.59	0.00	0.00	14.50	3.28	0.37	0.02
11.95	1.73	0.01	0.01	14.55	3.28	0.37	0.02
12.00	1.86	0.02	0.04	14.60	3.29	0.37	0.02
12.05	2.09	0.05	0.08	14.65	3.30	0.38	0.02
12.10	2.32	0.09	0.16	14.70	3.30	0.38	0.02
12.15	2.40	0.11	**0.22**	14.75	3.31	0.38	0.02
12.20	2.48	0.13	0.20	14.80	3.32	0.38	0.02
12.25	2.54	0.14	0.18	14.85	3.32	0.38	0.02
12.30	2.59	0.16	0.16	14.90	3.33	0.39	0.02
12.35	2.63	0.17	0.14	14.95	3.33	0.39	0.02
12.40	2.68	0.18	0.13	15.00	3.34	0.39	0.02
12.45	2.72	0.19	0.11	15.05	3.34	0.39	0.02
12.50	2.75	0.20	0.11	15.10	3.35	0.40	0.02
12.55	2.78	0.21	0.10	15.15	3.36	0.40	0.02
12.60	2.81	0.21	0.09	15.20	3.36	0.40	0.02
12.65	2.83	0.22	0.08	15.25	3.37	0.40	0.02
12.70	2.85	0.23	0.07	15.30	3.37	0.40	0.02
12.75	2.88	0.23	0.07	15.35	3.38	0.41	0.02
12.80	2.90	0.24	0.06	15.40	3.38	0.41	0.02
12.85	2.92	0.25	0.06	15.45	3.39	0.41	0.02
12.90	2.94	0.25	0.06	15.50	3.39	0.41	0.02
12.95	2.95	0.26	0.06	15.55	3.40	0.41	0.02

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	3.40	0.42	0.02	18.20	3.61	0.50	0.01
15.65	3.41	0.42	0.02	18.25	3.62	0.50	0.01
15.70	3.41	0.42	0.02	18.30	3.62	0.50	0.01
15.75	3.42	0.42	0.02	18.35	3.62	0.50	0.01
15.80	3.42	0.42	0.02	18.40	3.63	0.50	0.01
15.85	3.43	0.42	0.02	18.45	3.63	0.50	0.01
15.90	3.43	0.43	0.02	18.50	3.63	0.51	0.01
15.95	3.44	0.43	0.02	18.55	3.63	0.51	0.01
16.00	3.44	0.43	0.02	18.60	3.64	0.51	0.01
16.05	3.45	0.43	0.02	18.65	3.64	0.51	0.01
16.10	3.45	0.43	0.02	18.70	3.64	0.51	0.01
16.15	3.46	0.44	0.02	18.75	3.65	0.51	0.01
16.20	3.46	0.44	0.02	18.80	3.65	0.51	0.01
16.25	3.46	0.44	0.02	18.85	3.65	0.51	0.01
16.30	3.47	0.44	0.02	18.90	3.66	0.52	0.01
16.35	3.47	0.44	0.02	18.95	3.66	0.52	0.01
16.40	3.48	0.44	0.02	19.00	3.66	0.52	0.01
16.45	3.48	0.45	0.02	19.05	3.66	0.52	0.01
16.50	3.49	0.45	0.02	19.10	3.67	0.52	0.01
16.55	3.49	0.45	0.02	19.15	3.67	0.52	0.01
16.60	3.50	0.45	0.02	19.20	3.67	0.52	0.01
16.65	3.50	0.45	0.02	19.25	3.68	0.52	0.01
16.70	3.50	0.45	0.01	19.30	3.68	0.53	0.01
16.75	3.51	0.46	0.01	19.35	3.68	0.53	0.01
16.80	3.51	0.46	0.01	19.40	3.68	0.53	0.01
16.85	3.52	0.46	0.01	19.45	3.69	0.53	0.01
16.90	3.52	0.46	0.01	19.50	3.69	0.53	0.01
16.95	3.52	0.46	0.01	19.55	3.69	0.53	0.01
17.00	3.53	0.46	0.01	19.60	3.70	0.53	0.01
17.05	3.53	0.47	0.01	19.65	3.70	0.53	0.01
17.10	3.54	0.47	0.01	19.70	3.70	0.53	0.01
17.15	3.54	0.47	0.01	19.75	3.70	0.54	0.01
17.20	3.54	0.47	0.01	19.80	3.71	0.54	0.01
17.25	3.55	0.47	0.01	19.85	3.71	0.54	0.01
17.30	3.55	0.47	0.01	19.90	3.71	0.54	0.01
17.35	3.56	0.47	0.01	19.95	3.72	0.54	0.01
17.40	3.56	0.48	0.01	20.00	3.72	0.54	0.01
17.45	3.56	0.48	0.01	20.05	3.72	0.54	0.01
17.50	3.57	0.48	0.01	20.10	3.72	0.54	0.01
17.55	3.57	0.48	0.01	20.15	3.73	0.55	0.01
17.60	3.57	0.48	0.01	20.20	3.73	0.55	0.01
17.65	3.58	0.48	0.01	20.25	3.73	0.55	0.01
17.70	3.58	0.48	0.01	20.30	3.74	0.55	0.01
17.75	3.58	0.49	0.01	20.35	3.74	0.55	0.01
17.80	3.59	0.49	0.01	20.40	3.74	0.55	0.01
17.85	3.59	0.49	0.01	20.45	3.74	0.55	0.01
17.90	3.59	0.49	0.01	20.50	3.75	0.55	0.01
17.95	3.60	0.49	0.01	20.55	3.75	0.55	0.01
18.00	3.60	0.49	0.01	20.60	3.75	0.56	0.01
18.05	3.60	0.49	0.01	20.65	3.75	0.56	0.01
18.10	3.61	0.50	0.01	20.70	3.76	0.56	0.01
18.15	3.61	0.50	0.01	20.75	3.76	0.56	0.01

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.76	0.56	0.01	23.40	3.88	0.61	0.01
20.85	3.76	0.56	0.01	23.45	3.89	0.61	0.01
20.90	3.77	0.56	0.01	23.50	3.89	0.62	0.01
20.95	3.77	0.56	0.01	23.55	3.89	0.62	0.01
21.00	3.77	0.56	0.01	23.60	3.89	0.62	0.01
21.05	3.77	0.57	0.01	23.65	3.89	0.62	0.01
21.10	3.78	0.57	0.01	23.70	3.90	0.62	0.01
21.15	3.78	0.57	0.01	23.75	3.90	0.62	0.01
21.20	3.78	0.57	0.01	23.80	3.90	0.62	0.01
21.25	3.78	0.57	0.01	23.85	3.90	0.62	0.01
21.30	3.79	0.57	0.01	23.90	3.90	0.62	0.01
21.35	3.79	0.57	0.01	23.95	3.91	0.62	0.01
21.40	3.79	0.57	0.01	24.00	**3.91**	**0.62**	0.01
21.45	3.79	0.57	0.01				
21.50	3.80	0.58	0.01				
21.55	3.80	0.58	0.01				
21.60	3.80	0.58	0.01				
21.65	3.80	0.58	0.01				
21.70	3.81	0.58	0.01				
21.75	3.81	0.58	0.01				
21.80	3.81	0.58	0.01				
21.85	3.81	0.58	0.01				
21.90	3.82	0.58	0.01				
21.95	3.82	0.58	0.01				
22.00	3.82	0.59	0.01				
22.05	3.82	0.59	0.01				
22.10	3.83	0.59	0.01				
22.15	3.83	0.59	0.01				
22.20	3.83	0.59	0.01				
22.25	3.83	0.59	0.01				
22.30	3.84	0.59	0.01				
22.35	3.84	0.59	0.01				
22.40	3.84	0.59	0.01				
22.45	3.84	0.59	0.01				
22.50	3.84	0.60	0.01				
22.55	3.85	0.60	0.01				
22.60	3.85	0.60	0.01				
22.65	3.85	0.60	0.01				
22.70	3.85	0.60	0.01				
22.75	3.86	0.60	0.01				
22.80	3.86	0.60	0.01				
22.85	3.86	0.60	0.01				
22.90	3.86	0.60	0.01				
22.95	3.87	0.60	0.01				
23.00	3.87	0.61	0.01				
23.05	3.87	0.61	0.01				
23.10	3.87	0.61	0.01				
23.15	3.87	0.61	0.01				
23.20	3.88	0.61	0.01				
23.25	3.88	0.61	0.01				
23.30	3.88	0.61	0.01				
23.35	3.88	0.61	0.01				

Summary for Subcatchment PDA2 IMP: PDA2 IMP

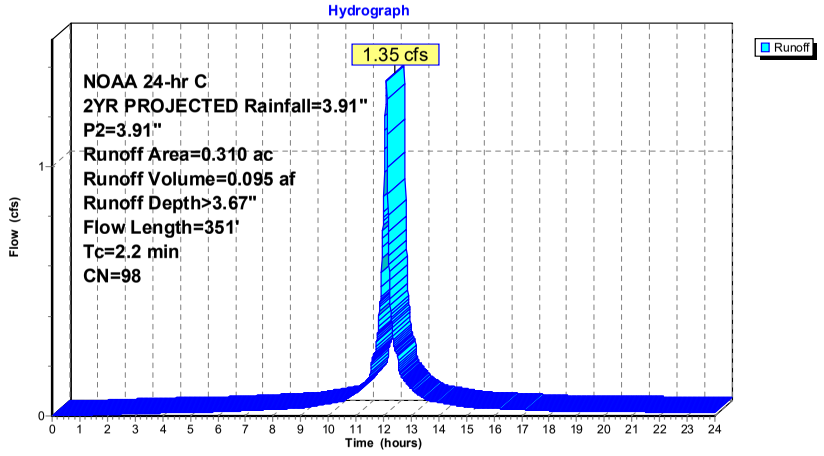
Runoff = 1.35 cfs @ 12.11 hrs, Volume= 0.095 af, Depth> 3.67"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR PROJECTED Rainfall=3.91", P2=3.91"

	Area (ac)	CN	Description
*	0.310	98	Impervious vehicular
	0.310		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	100	0.0180	1.46		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
1.1	251	0.0360	3.85		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
2.2	351	Total			

Subcatchment PDA2 IMP: PDA2 IMP



Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.12	0.02	0.01
0.05	0.00	0.00	0.00	2.65	0.12	0.02	0.01
0.10	0.01	0.00	0.00	2.70	0.12	0.02	0.01
0.15	0.01	0.00	0.00	2.75	0.13	0.02	0.01
0.20	0.01	0.00	0.00	2.80	0.13	0.03	0.01
0.25	0.01	0.00	0.00	2.85	0.13	0.03	0.01
0.30	0.01	0.00	0.00	2.90	0.13	0.03	0.01
0.35	0.02	0.00	0.00	2.95	0.14	0.03	0.01
0.40	0.02	0.00	0.00	3.00	0.14	0.03	0.01
0.45	0.02	0.00	0.00	3.05	0.14	0.03	0.01
0.50	0.02	0.00	0.00	3.10	0.14	0.03	0.01
0.55	0.02	0.00	0.00	3.15	0.15	0.04	0.01
0.60	0.03	0.00	0.00	3.20	0.15	0.04	0.01
0.65	0.03	0.00	0.00	3.25	0.15	0.04	0.01
0.70	0.03	0.00	0.00	3.30	0.15	0.04	0.01
0.75	0.03	0.00	0.00	3.35	0.16	0.04	0.01
0.80	0.03	0.00	0.00	3.40	0.16	0.04	0.01
0.85	0.04	0.00	0.00	3.45	0.16	0.04	0.01
0.90	0.04	0.00	0.00	3.50	0.16	0.05	0.01
0.95	0.04	0.00	0.00	3.55	0.17	0.05	0.01
1.00	0.04	0.00	0.00	3.60	0.17	0.05	0.01
1.05	0.04	0.00	0.00	3.65	0.17	0.05	0.01
1.10	0.05	0.00	0.00	3.70	0.17	0.05	0.01
1.15	0.05	0.00	0.00	3.75	0.18	0.05	0.01
1.20	0.05	0.00	0.00	3.80	0.18	0.06	0.01
1.25	0.05	0.00	0.00	3.85	0.18	0.06	0.01
1.30	0.06	0.00	0.00	3.90	0.19	0.06	0.01
1.35	0.06	0.00	0.00	3.95	0.19	0.06	0.01
1.40	0.06	0.00	0.00	4.00	0.19	0.06	0.01
1.45	0.06	0.00	0.00	4.05	0.19	0.07	0.01
1.50	0.07	0.00	0.00	4.10	0.20	0.07	0.01
1.55	0.07	0.00	0.00	4.15	0.20	0.07	0.01
1.60	0.07	0.00	0.00	4.20	0.20	0.07	0.01
1.65	0.07	0.00	0.00	4.25	0.21	0.07	0.01
1.70	0.07	0.00	0.00	4.30	0.21	0.08	0.01
1.75	0.08	0.01	0.00	4.35	0.21	0.08	0.01
1.80	0.08	0.01	0.00	4.40	0.21	0.08	0.01
1.85	0.08	0.01	0.00	4.45	0.22	0.08	0.01
1.90	0.08	0.01	0.00	4.50	0.22	0.08	0.01
1.95	0.09	0.01	0.00	4.55	0.22	0.09	0.01
2.00	0.09	0.01	0.00	4.60	0.23	0.09	0.01
2.05	0.09	0.01	0.01	4.65	0.23	0.09	0.01
2.10	0.09	0.01	0.01	4.70	0.23	0.09	0.01
2.15	0.10	0.01	0.01	4.75	0.23	0.09	0.01
2.20	0.10	0.01	0.01	4.80	0.24	0.10	0.01
2.25	0.10	0.01	0.01	4.85	0.24	0.10	0.01
2.30	0.10	0.01	0.01	4.90	0.24	0.10	0.01
2.35	0.11	0.02	0.01	4.95	0.25	0.10	0.01
2.40	0.11	0.02	0.01	5.00	0.25	0.10	0.01
2.45	0.11	0.02	0.01	5.05	0.25	0.11	0.01
2.50	0.11	0.02	0.01	5.10	0.25	0.11	0.01
2.55	0.12	0.02	0.01	5.15	0.26	0.11	0.01

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.26	0.11	0.01	7.80	0.45	0.27	0.03
5.25	0.26	0.12	0.01	7.85	0.45	0.28	0.03
5.30	0.27	0.12	0.01	7.90	0.46	0.28	0.03
5.35	0.27	0.12	0.01	7.95	0.46	0.29	0.03
5.40	0.27	0.12	0.01	8.00	0.47	0.29	0.03
5.45	0.28	0.13	0.01	8.05	0.47	0.29	0.03
5.50	0.28	0.13	0.01	8.10	0.48	0.30	0.03
5.55	0.28	0.13	0.02	8.15	0.48	0.30	0.03
5.60	0.28	0.13	0.02	8.20	0.49	0.31	0.03
5.65	0.29	0.14	0.02	8.25	0.49	0.31	0.03
5.70	0.29	0.14	0.02	8.30	0.50	0.32	0.03
5.75	0.29	0.14	0.02	8.35	0.50	0.32	0.03
5.80	0.30	0.14	0.02	8.40	0.51	0.32	0.03
5.85	0.30	0.15	0.02	8.45	0.51	0.33	0.03
5.90	0.30	0.15	0.02	8.50	0.52	0.33	0.03
5.95	0.31	0.15	0.02	8.55	0.52	0.34	0.03
6.00	0.31	0.15	0.02	8.60	0.53	0.34	0.03
6.05	0.31	0.16	0.02	8.65	0.53	0.35	0.03
6.10	0.32	0.16	0.02	8.70	0.54	0.35	0.03
6.15	0.32	0.16	0.02	8.75	0.54	0.36	0.03
6.20	0.32	0.16	0.02	8.80	0.55	0.36	0.03
6.25	0.33	0.17	0.02	8.85	0.55	0.37	0.03
6.30	0.33	0.17	0.02	8.90	0.56	0.37	0.03
6.35	0.33	0.17	0.02	8.95	0.57	0.38	0.03
6.40	0.34	0.18	0.02	9.00	0.57	0.38	0.03
6.45	0.34	0.18	0.02	9.05	0.58	0.39	0.03
6.50	0.34	0.18	0.02	9.10	0.58	0.39	0.03
6.55	0.35	0.18	0.02	9.15	0.59	0.40	0.03
6.60	0.35	0.19	0.02	9.20	0.59	0.40	0.03
6.65	0.35	0.19	0.02	9.25	0.60	0.41	0.04
6.70	0.36	0.19	0.02	9.30	0.61	0.42	0.04
6.75	0.36	0.20	0.02	9.35	0.61	0.42	0.04
6.80	0.37	0.20	0.02	9.40	0.62	0.43	0.04
6.85	0.37	0.20	0.02	9.45	0.63	0.44	0.04
6.90	0.37	0.21	0.02	9.50	0.63	0.44	0.04
6.95	0.38	0.21	0.02	9.55	0.64	0.45	0.04
7.00	0.38	0.21	0.02	9.60	0.65	0.46	0.04
7.05	0.39	0.22	0.02	9.65	0.66	0.46	0.04
7.10	0.39	0.22	0.02	9.70	0.66	0.47	0.04
7.15	0.39	0.22	0.02	9.75	0.67	0.48	0.05
7.20	0.40	0.23	0.02	9.80	0.68	0.48	0.05
7.25	0.40	0.23	0.02	9.85	0.69	0.49	0.05
7.30	0.41	0.23	0.02	9.90	0.70	0.50	0.05
7.35	0.41	0.24	0.02	9.95	0.70	0.51	0.05
7.40	0.41	0.24	0.02	10.00	0.71	0.52	0.05
7.45	0.42	0.25	0.02	10.05	0.72	0.52	0.05
7.50	0.42	0.25	0.02	10.10	0.73	0.53	0.05
7.55	0.43	0.25	0.02	10.15	0.74	0.54	0.05
7.60	0.43	0.26	0.02	10.20	0.75	0.55	0.05
7.65	0.44	0.26	0.02	10.25	0.76	0.56	0.05
7.70	0.44	0.26	0.02	10.30	0.77	0.57	0.05
7.75	0.45	0.27	0.02	10.35	0.78	0.58	0.06

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.79	0.59	0.06	13.00	2.97	2.74	0.11
10.45	0.80	0.59	0.06	13.05	2.99	2.76	0.10
10.50	0.81	0.60	0.06	13.10	3.00	2.77	0.10
10.55	0.82	0.61	0.06	13.15	3.02	2.79	0.09
10.60	0.83	0.62	0.06	13.20	3.03	2.80	0.09
10.65	0.84	0.64	0.07	13.25	3.04	2.81	0.09
10.70	0.85	0.65	0.07	13.30	3.06	2.83	0.08
10.75	0.87	0.66	0.08	13.35	3.07	2.84	0.08
10.80	0.88	0.67	0.08	13.40	3.08	2.85	0.08
10.85	0.89	0.69	0.08	13.45	3.09	2.86	0.07
10.90	0.91	0.70	0.09	13.50	3.10	2.87	0.07
10.95	0.92	0.72	0.09	13.55	3.11	2.88	0.06
11.00	0.94	0.73	0.09	13.60	3.12	2.89	0.06
11.05	0.96	0.75	0.10	13.65	3.13	2.90	0.06
11.10	0.97	0.77	0.10	13.70	3.14	2.91	0.06
11.15	0.99	0.78	0.11	13.75	3.15	2.92	0.06
11.20	1.01	0.80	0.12	13.80	3.16	2.93	0.06
11.25	1.03	0.82	0.13	13.85	3.17	2.94	0.06
11.30	1.06	0.85	0.13	13.90	3.18	2.95	0.06
11.35	1.08	0.87	0.14	13.95	3.19	2.96	0.06
11.40	1.10	0.89	0.14	14.00	3.20	2.96	0.05
11.45	1.13	0.92	0.15	14.05	3.21	2.97	0.05
11.50	1.16	0.94	0.15	14.10	3.21	2.98	0.05
11.55	1.19	0.98	0.20	14.15	3.22	2.99	0.05
11.60	1.23	1.02	0.23	14.20	3.23	3.00	0.05
11.65	1.28	1.06	0.25	14.25	3.24	3.01	0.05
11.70	1.32	1.10	0.25	14.30	3.25	3.01	0.05
11.75	1.37	1.16	0.31	14.35	3.25	3.02	0.05
11.80	1.43	1.21	0.34	14.40	3.26	3.03	0.05
11.85	1.51	1.29	0.42	14.45	3.27	3.04	0.05
11.90	1.59	1.37	0.47	14.50	3.28	3.04	0.05
11.95	1.73	1.50	0.68	14.55	3.28	3.05	0.04
12.00	1.86	1.64	0.80	14.60	3.29	3.06	0.04
12.05	2.09	1.87	1.15	14.65	3.30	3.06	0.04
12.10	2.32	2.09	**1.34**	14.70	3.30	3.07	0.04
12.15	2.40	2.17	**0.89**	14.75	3.31	3.08	0.04
12.20	2.48	2.25	0.61	14.80	3.32	3.08	0.04
12.25	2.54	2.31	0.44	14.85	3.32	3.09	0.04
12.30	2.59	2.36	0.38	14.90	3.33	3.09	0.04
12.35	2.63	2.40	0.31	14.95	3.33	3.10	0.04
12.40	2.68	2.45	0.27	15.00	3.34	3.11	0.04
12.45	2.72	2.48	0.25	15.05	3.34	3.11	0.04
12.50	2.75	2.52	0.25	15.10	3.35	3.12	0.03
12.55	2.78	2.55	0.20	15.15	3.36	3.12	0.03
12.60	2.81	2.57	0.17	15.20	3.36	3.13	0.03
12.65	2.83	2.60	0.16	15.25	3.37	3.13	0.03
12.70	2.85	2.62	0.15	15.30	3.37	3.14	0.03
12.75	2.88	2.64	0.14	15.35	3.38	3.14	0.03
12.80	2.90	2.67	0.14	15.40	3.38	3.15	0.03
12.85	2.92	2.69	0.13	15.45	3.39	3.15	0.03
12.90	2.94	2.70	0.12	15.50	3.39	3.16	0.03
12.95	2.95	2.72	0.12	15.55	3.40	3.16	0.03

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	3.40	3.17	0.03	18.20	3.61	3.38	0.02
15.65	3.41	3.17	0.03	18.25	3.62	3.38	0.02
15.70	3.41	3.18	0.03	18.30	3.62	3.39	0.02
15.75	3.42	3.18	0.03	18.35	3.62	3.39	0.02
15.80	3.42	3.19	0.03	18.40	3.63	3.39	0.02
15.85	3.43	3.19	0.03	18.45	3.63	3.39	0.02
15.90	3.43	3.20	0.03	18.50	3.63	3.40	0.02
15.95	3.44	3.20	0.03	18.55	3.63	3.40	0.02
16.00	3.44	3.21	0.03	18.60	3.64	3.40	0.02
16.05	3.45	3.21	0.03	18.65	3.64	3.41	0.02
16.10	3.45	3.22	0.03	18.70	3.64	3.41	0.02
16.15	3.46	3.22	0.03	18.75	3.65	3.41	0.02
16.20	3.46	3.23	0.03	18.80	3.65	3.42	0.02
16.25	3.46	3.23	0.03	18.85	3.65	3.42	0.02
16.30	3.47	3.24	0.03	18.90	3.66	3.42	0.02
16.35	3.47	3.24	0.03	18.95	3.66	3.42	0.02
16.40	3.48	3.24	0.03	19.00	3.66	3.43	0.02
16.45	3.48	3.25	0.03	19.05	3.66	3.43	0.02
16.50	3.49	3.25	0.03	19.10	3.67	3.43	0.02
16.55	3.49	3.26	0.03	19.15	3.67	3.44	0.02
16.60	3.50	3.26	0.03	19.20	3.67	3.44	0.02
16.65	3.50	3.27	0.03	19.25	3.68	3.44	0.02
16.70	3.50	3.27	0.03	19.30	3.68	3.44	0.02
16.75	3.51	3.27	0.03	19.35	3.68	3.45	0.02
16.80	3.51	3.28	0.03	19.40	3.68	3.45	0.02
16.85	3.52	3.28	0.03	19.45	3.69	3.45	0.02
16.90	3.52	3.29	0.03	19.50	3.69	3.46	0.02
16.95	3.52	3.29	0.03	19.55	3.69	3.46	0.02
17.00	3.53	3.30	0.03	19.60	3.70	3.46	0.02
17.05	3.53	3.30	0.02	19.65	3.70	3.46	0.02
17.10	3.54	3.30	0.02	19.70	3.70	3.47	0.02
17.15	3.54	3.31	0.02	19.75	3.70	3.47	0.02
17.20	3.54	3.31	0.02	19.80	3.71	3.47	0.02
17.25	3.55	3.31	0.02	19.85	3.71	3.48	0.02
17.30	3.55	3.32	0.02	19.90	3.71	3.48	0.02
17.35	3.56	3.32	0.02	19.95	3.72	3.48	0.02
17.40	3.56	3.33	0.02	20.00	3.72	3.48	0.02
17.45	3.56	3.33	0.02	20.05	3.72	3.49	0.02
17.50	3.57	3.33	0.02	20.10	3.72	3.49	0.02
17.55	3.57	3.34	0.02	20.15	3.73	3.49	0.02
17.60	3.57	3.34	0.02	20.20	3.73	3.50	0.02
17.65	3.58	3.34	0.02	20.25	3.73	3.50	0.02
17.70	3.58	3.35	0.02	20.30	3.74	3.50	0.02
17.75	3.58	3.35	0.02	20.35	3.74	3.50	0.02
17.80	3.59	3.35	0.02	20.40	3.74	3.51	0.02
17.85	3.59	3.36	0.02	20.45	3.74	3.51	0.02
17.90	3.59	3.36	0.02	20.50	3.75	3.51	0.02
17.95	3.60	3.36	0.02	20.55	3.75	3.51	0.02
18.00	3.60	3.37	0.02	20.60	3.75	3.52	0.02
18.05	3.60	3.37	0.02	20.65	3.75	3.52	0.02
18.10	3.61	3.37	0.02	20.70	3.76	3.52	0.02
18.15	3.61	3.38	0.02	20.75	3.76	3.52	0.02

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.76	3.53	0.02	23.40	3.88	3.65	0.01
20.85	3.76	3.53	0.02	23.45	3.89	3.65	0.01
20.90	3.77	3.53	0.02	23.50	3.89	3.65	0.01
20.95	3.77	3.54	0.02	23.55	3.89	3.66	0.01
21.00	3.77	3.54	0.02	23.60	3.89	3.66	0.01
21.05	3.77	3.54	0.02	23.65	3.89	3.66	0.01
21.10	3.78	3.54	0.02	23.70	3.90	3.66	0.01
21.15	3.78	3.55	0.02	23.75	3.90	3.66	0.01
21.20	3.78	3.55	0.02	23.80	3.90	3.67	0.01
21.25	3.78	3.55	0.02	23.85	3.90	3.67	0.01
21.30	3.79	3.55	0.02	23.90	3.90	3.67	0.01
21.35	3.79	3.56	0.02	23.95	3.91	3.67	0.01
21.40	3.79	3.56	0.02	24.00	**3.91**	**3.68**	0.02
21.45	3.79	3.56	0.02				
21.50	3.80	3.56	0.02				
21.55	3.80	3.57	0.02				
21.60	3.80	3.57	0.02				
21.65	3.80	3.57	0.02				
21.70	3.81	3.57	0.02				
21.75	3.81	3.58	0.02				
21.80	3.81	3.58	0.02				
21.85	3.81	3.58	0.02				
21.90	3.82	3.58	0.02				
21.95	3.82	3.58	0.01				
22.00	3.82	3.59	0.01				
22.05	3.82	3.59	0.01				
22.10	3.83	3.59	0.01				
22.15	3.83	3.59	0.01				
22.20	3.83	3.60	0.01				
22.25	3.83	3.60	0.01				
22.30	3.84	3.60	0.01				
22.35	3.84	3.60	0.01				
22.40	3.84	3.61	0.01				
22.45	3.84	3.61	0.01				
22.50	3.84	3.61	0.01				
22.55	3.85	3.61	0.01				
22.60	3.85	3.61	0.01				
22.65	3.85	3.62	0.01				
22.70	3.85	3.62	0.01				
22.75	3.86	3.62	0.01				
22.80	3.86	3.62	0.01				
22.85	3.86	3.63	0.01				
22.90	3.86	3.63	0.01				
22.95	3.87	3.63	0.01				
23.00	3.87	3.63	0.01				
23.05	3.87	3.63	0.01				
23.10	3.87	3.64	0.01				
23.15	3.87	3.64	0.01				
23.20	3.88	3.64	0.01				
23.25	3.88	3.64	0.01				
23.30	3.88	3.65	0.01				
23.35	3.88	3.65	0.01				

Summary for Subcatchment PDA3 IMP: PDA3 IMP

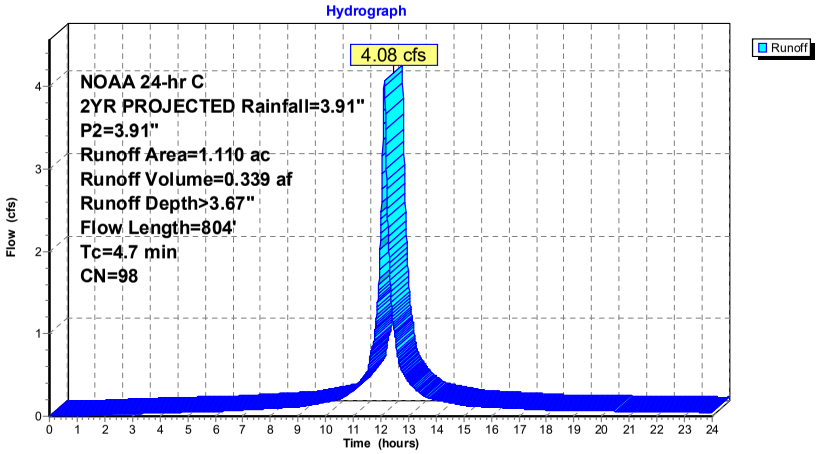
Runoff = 4.08 cfs @ 12.13 hrs, Volume= 0.339 af, Depth> 3.67"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR PROJECTED Rainfall=3.91", P2=3.91"

	Area (ac)	CN	Description
*	0.990	98	Impervious vehicular
*	0.120	98	Impervious non vehicular
	1.110	98	Weighted Average
	1.110		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	100	0.0071	1.00		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.7	172	0.0039	3.90	12.24	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
0.1	27	0.0120	6.84	21.48	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
1.6	439	0.0015	4.45	87.42	**Pipe Channel, RCP_Round 60"** 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.015
4.7	804	Total			

Subcatchment PDA3 IMP: PDA3 IMP



Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.12	0.02	0.02
0.05	0.00	0.00	0.00	2.65	0.12	0.02	0.03
0.10	0.01	0.00	0.00	2.70	0.12	0.02	0.03
0.15	0.01	0.00	0.00	2.75	0.13	0.02	0.03
0.20	0.01	0.00	0.00	2.80	0.13	0.03	0.03
0.25	0.01	0.00	0.00	2.85	0.13	0.03	0.03
0.30	0.01	0.00	0.00	2.90	0.13	0.03	0.03
0.35	0.02	0.00	0.00	2.95	0.14	0.03	0.03
0.40	0.02	0.00	0.00	3.00	0.14	0.03	0.03
0.45	0.02	0.00	0.00	3.05	0.14	0.03	0.03
0.50	0.02	0.00	0.00	3.10	0.14	0.03	0.03
0.55	0.02	0.00	0.00	3.15	0.15	0.04	0.03
0.60	0.03	0.00	0.00	3.20	0.15	0.04	0.03
0.65	0.03	0.00	0.00	3.25	0.15	0.04	0.03
0.70	0.03	0.00	0.00	3.30	0.15	0.04	0.03
0.75	0.03	0.00	0.00	3.35	0.16	0.04	0.03
0.80	0.03	0.00	0.00	3.40	0.16	0.04	0.03
0.85	0.04	0.00	0.00	3.45	0.16	0.04	0.03
0.90	0.04	0.00	0.00	3.50	0.16	0.05	0.04
0.95	0.04	0.00	0.00	3.55	0.17	0.05	0.04
1.00	0.04	0.00	0.00	3.60	0.17	0.05	0.04
1.05	0.04	0.00	0.00	3.65	0.17	0.05	0.04
1.10	0.05	0.00	0.00	3.70	0.17	0.05	0.04
1.15	0.05	0.00	0.00	3.75	0.18	0.05	0.04
1.20	0.05	0.00	0.00	3.80	0.18	0.06	0.04
1.25	0.05	0.00	0.00	3.85	0.18	0.06	0.04
1.30	0.06	0.00	0.00	3.90	0.19	0.06	0.04
1.35	0.06	0.00	0.01	3.95	0.19	0.06	0.04
1.40	0.06	0.00	0.01	4.00	0.19	0.06	0.04
1.45	0.06	0.00	0.01	4.05	0.19	0.07	0.04
1.50	0.07	0.00	0.01	4.10	0.20	0.07	0.04
1.55	0.07	0.00	0.01	4.15	0.20	0.07	0.04
1.60	0.07	0.00	0.01	4.20	0.20	0.07	0.04
1.65	0.07	0.00	0.01	4.25	0.21	0.07	0.04
1.70	0.07	0.00	0.01	4.30	0.21	0.08	0.04
1.75	0.08	0.01	0.01	4.35	0.21	0.08	0.04
1.80	0.08	0.01	0.01	4.40	0.21	0.08	0.04
1.85	0.08	0.01	0.01	4.45	0.22	0.08	0.04
1.90	0.08	0.01	0.01	4.50	0.22	0.08	0.04
1.95	0.09	0.01	0.02	4.55	0.22	0.09	0.05
2.00	0.09	0.01	0.02	4.60	0.23	0.09	0.05
2.05	0.09	0.01	0.02	4.65	0.23	0.09	0.05
2.10	0.09	0.01	0.02	4.70	0.23	0.09	0.05
2.15	0.10	0.01	0.02	4.75	0.23	0.09	0.05
2.20	0.10	0.01	0.02	4.80	0.24	0.10	0.05
2.25	0.10	0.01	0.02	4.85	0.24	0.10	0.05
2.30	0.10	0.01	0.02	4.90	0.24	0.10	0.05
2.35	0.11	0.02	0.02	4.95	0.25	0.10	0.05
2.40	0.11	0.02	0.02	5.00	0.25	0.10	0.05
2.45	0.11	0.02	0.02	5.05	0.25	0.11	0.05
2.50	0.11	0.02	0.02	5.10	0.25	0.11	0.05
2.55	0.12	0.02	0.02	5.15	0.26	0.11	0.05

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.26	0.11	0.05	7.80	0.45	0.27	0.09
5.25	0.26	0.12	0.05	7.85	0.45	0.28	0.09
5.30	0.27	0.12	0.05	7.90	0.46	0.28	0.09
5.35	0.27	0.12	0.05	7.95	0.46	0.29	0.09
5.40	0.27	0.12	0.05	8.00	0.47	0.29	0.09
5.45	0.28	0.13	0.05	8.05	0.47	0.29	0.09
5.50	0.28	0.13	0.05	8.10	0.48	0.30	0.09
5.55	0.28	0.13	0.05	8.15	0.48	0.30	0.10
5.60	0.28	0.13	0.05	8.20	0.49	0.31	0.10
5.65	0.29	0.14	0.05	8.25	0.49	0.31	0.10
5.70	0.29	0.14	0.05	8.30	0.50	0.32	0.10
5.75	0.29	0.14	0.05	8.35	0.50	0.32	0.10
5.80	0.30	0.14	0.06	8.40	0.51	0.32	0.10
5.85	0.30	0.15	0.06	8.45	0.51	0.33	0.10
5.90	0.30	0.15	0.06	8.50	0.52	0.33	0.10
5.95	0.31	0.15	0.06	8.55	0.52	0.34	0.10
6.00	0.31	0.15	0.06	8.60	0.53	0.34	0.10
6.05	0.31	0.16	0.06	8.65	0.53	0.35	0.11
6.10	0.32	0.16	0.06	8.70	0.54	0.35	0.11
6.15	0.32	0.16	0.06	8.75	0.54	0.36	0.11
6.20	0.32	0.16	0.06	8.80	0.55	0.36	0.11
6.25	0.33	0.17	0.06	8.85	0.55	0.37	0.11
6.30	0.33	0.17	0.06	8.90	0.56	0.37	0.11
6.35	0.33	0.17	0.06	8.95	0.57	0.38	0.11
6.40	0.34	0.18	0.06	9.00	0.57	0.38	0.11
6.45	0.34	0.18	0.06	9.05	0.58	0.39	0.11
6.50	0.34	0.18	0.06	9.10	0.58	0.39	0.12
6.55	0.35	0.18	0.07	9.15	0.59	0.40	0.12
6.60	0.35	0.19	0.07	9.20	0.59	0.40	0.12
6.65	0.35	0.19	0.07	9.25	0.60	0.41	0.12
6.70	0.36	0.19	0.07	9.30	0.61	0.42	0.13
6.75	0.36	0.20	0.07	9.35	0.61	0.42	0.13
6.80	0.37	0.20	0.07	9.40	0.62	0.43	0.13
6.85	0.37	0.20	0.07	9.45	0.63	0.44	0.14
6.90	0.37	0.21	0.07	9.50	0.63	0.44	0.14
6.95	0.38	0.21	0.07	9.55	0.64	0.45	0.14
7.00	0.38	0.21	0.07	9.60	0.65	0.46	0.15
7.05	0.39	0.22	0.08	9.65	0.66	0.46	0.15
7.10	0.39	0.22	0.08	9.70	0.66	0.47	0.15
7.15	0.39	0.22	0.08	9.75	0.67	0.48	0.16
7.20	0.40	0.23	0.08	9.80	0.68	0.48	0.16
7.25	0.40	0.23	0.08	9.85	0.69	0.49	0.16
7.30	0.41	0.23	0.08	9.90	0.70	0.50	0.17
7.35	0.41	0.24	0.08	9.95	0.70	0.51	0.17
7.40	0.41	0.24	0.08	10.00	0.71	0.52	0.17
7.45	0.42	0.25	0.08	10.05	0.72	0.52	0.18
7.50	0.42	0.25	0.08	10.10	0.73	0.53	0.18
7.55	0.43	0.25	0.08	10.15	0.74	0.54	0.18
7.60	0.43	0.26	0.09	10.20	0.75	0.55	0.19
7.65	0.44	0.26	0.09	10.25	0.76	0.56	0.19
7.70	0.44	0.26	0.09	10.30	0.77	0.57	0.19
7.75	0.45	0.27	0.09	10.35	0.78	0.58	0.20

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.79	0.59	0.20	13.00	2.97	2.74	0.42
10.45	0.80	0.59	0.20	13.05	2.99	2.76	0.40
10.50	0.81	0.60	0.21	13.10	3.00	2.77	0.38
10.55	0.82	0.61	0.21	13.15	3.02	2.79	0.36
10.60	0.83	0.62	0.22	13.20	3.03	2.80	0.34
10.65	0.84	0.64	0.23	13.25	3.04	2.81	0.33
10.70	0.85	0.65	0.24	13.30	3.06	2.83	0.31
10.75	0.87	0.66	0.26	13.35	3.07	2.84	0.30
10.80	0.88	0.67	0.27	13.40	3.08	2.85	0.29
10.85	0.89	0.69	0.28	13.45	3.09	2.86	0.28
10.90	0.91	0.70	0.29	13.50	3.10	2.87	0.26
10.95	0.92	0.72	0.30	13.55	3.11	2.88	0.25
11.00	0.94	0.73	0.32	13.60	3.12	2.89	0.24
11.05	0.96	0.75	0.33	13.65	3.13	2.90	0.23
11.10	0.97	0.77	0.35	13.70	3.14	2.91	0.22
11.15	0.99	0.78	0.37	13.75	3.15	2.92	0.22
11.20	1.01	0.80	0.40	13.80	3.16	2.93	0.21
11.25	1.03	0.82	0.42	13.85	3.17	2.94	0.21
11.30	1.06	0.85	0.44	13.90	3.18	2.95	0.21
11.35	1.08	0.87	0.46	13.95	3.19	2.96	0.20
11.40	1.10	0.89	0.49	14.00	3.20	2.96	0.20
11.45	1.13	0.92	0.51	14.05	3.21	2.97	0.20
11.50	1.16	0.94	0.53	14.10	3.21	2.98	0.19
11.55	1.19	0.98	0.59	14.15	3.22	2.99	0.19
11.60	1.23	1.02	0.71	14.20	3.23	3.00	0.19
11.65	1.28	1.06	0.78	14.25	3.24	3.01	0.18
11.70	1.32	1.10	0.84	14.30	3.25	3.01	0.18
11.75	1.37	1.16	0.93	14.35	3.25	3.02	0.18
11.80	1.43	1.21	1.07	14.40	3.26	3.03	0.17
11.85	1.51	1.29	1.23	14.45	3.27	3.04	0.17
11.90	1.59	1.37	1.45	14.50	3.28	3.04	0.17
11.95	1.73	1.50	1.79	14.55	3.28	3.05	0.16
12.00	1.86	1.64	2.31	14.60	3.29	3.06	0.16
12.05	2.09	1.87	2.95	14.65	3.30	3.06	0.16
12.10	2.32	2.09	**3.85**	14.70	3.30	3.07	0.15
12.15	2.40	2.17	**3.86**	14.75	3.31	3.08	0.15
12.20	2.48	2.25	3.00	14.80	3.32	3.08	0.15
12.25	2.54	2.31	2.40	14.85	3.32	3.09	0.14
12.30	2.59	2.36	1.93	14.90	3.33	3.09	0.14
12.35	2.63	2.40	1.58	14.95	3.33	3.10	0.14
12.40	2.68	2.45	1.28	15.00	3.34	3.11	0.13
12.45	2.72	2.48	1.11	15.05	3.34	3.11	0.13
12.50	2.75	2.52	1.00	15.10	3.35	3.12	0.13
12.55	2.78	2.55	0.89	15.15	3.36	3.12	0.12
12.60	2.81	2.57	0.75	15.20	3.36	3.13	0.12
12.65	2.83	2.60	0.66	15.25	3.37	3.13	0.12
12.70	2.85	2.62	0.60	15.30	3.37	3.14	0.12
12.75	2.88	2.64	0.56	15.35	3.38	3.14	0.12
12.80	2.90	2.67	0.53	15.40	3.38	3.15	0.12
12.85	2.92	2.69	0.50	15.45	3.39	3.15	0.12
12.90	2.94	2.70	0.47	15.50	3.39	3.16	0.12
12.95	2.95	2.72	0.45	15.55	3.40	3.16	0.12

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	3.40	3.17	0.11	18.20	3.61	3.38	0.07
15.65	3.41	3.17	0.11	18.25	3.62	3.38	0.07
15.70	3.41	3.18	0.11	18.30	3.62	3.39	0.07
15.75	3.42	3.18	0.11	18.35	3.62	3.39	0.07
15.80	3.42	3.19	0.11	18.40	3.63	3.39	0.07
15.85	3.43	3.19	0.11	18.45	3.63	3.39	0.07
15.90	3.43	3.20	0.11	18.50	3.63	3.40	0.07
15.95	3.44	3.20	0.11	18.55	3.63	3.40	0.07
16.00	3.44	3.21	0.11	18.60	3.64	3.40	0.07
16.05	3.45	3.21	0.11	18.65	3.64	3.41	0.07
16.10	3.45	3.22	0.11	18.70	3.64	3.41	0.07
16.15	3.46	3.22	0.11	18.75	3.65	3.41	0.07
16.20	3.46	3.23	0.10	18.80	3.65	3.42	0.07
16.25	3.46	3.23	0.10	18.85	3.65	3.42	0.07
16.30	3.47	3.24	0.10	18.90	3.66	3.42	0.07
16.35	3.47	3.24	0.10	18.95	3.66	3.42	0.07
16.40	3.48	3.24	0.10	19.00	3.66	3.43	0.07
16.45	3.48	3.25	0.10	19.05	3.66	3.43	0.07
16.50	3.49	3.25	0.10	19.10	3.67	3.43	0.07
16.55	3.49	3.26	0.10	19.15	3.67	3.44	0.07
16.60	3.50	3.26	0.10	19.20	3.67	3.44	0.07
16.65	3.50	3.27	0.10	19.25	3.68	3.44	0.07
16.70	3.50	3.27	0.10	19.30	3.68	3.44	0.07
16.75	3.51	3.27	0.09	19.35	3.68	3.45	0.07
16.80	3.51	3.28	0.09	19.40	3.68	3.45	0.06
16.85	3.52	3.28	0.09	19.45	3.69	3.45	0.06
16.90	3.52	3.29	0.09	19.50	3.69	3.46	0.06
16.95	3.52	3.29	0.09	19.55	3.69	3.46	0.06
17.00	3.53	3.30	0.09	19.60	3.70	3.46	0.06
17.05	3.53	3.30	0.09	19.65	3.70	3.46	0.06
17.10	3.54	3.30	0.09	19.70	3.70	3.47	0.06
17.15	3.54	3.31	0.09	19.75	3.70	3.47	0.06
17.20	3.54	3.31	0.09	19.80	3.71	3.47	0.06
17.25	3.55	3.31	0.09	19.85	3.71	3.48	0.06
17.30	3.55	3.32	0.09	19.90	3.71	3.48	0.06
17.35	3.56	3.32	0.08	19.95	3.72	3.48	0.06
17.40	3.56	3.33	0.08	20.00	3.72	3.48	0.06
17.45	3.56	3.33	0.08	20.05	3.72	3.49	0.06
17.50	3.57	3.33	0.08	20.10	3.72	3.49	0.06
17.55	3.57	3.34	0.08	20.15	3.73	3.49	0.06
17.60	3.57	3.34	0.08	20.20	3.73	3.50	0.06
17.65	3.58	3.34	0.08	20.25	3.73	3.50	0.06
17.70	3.58	3.35	0.08	20.30	3.74	3.50	0.06
17.75	3.58	3.35	0.08	20.35	3.74	3.50	0.06
17.80	3.59	3.35	0.08	20.40	3.74	3.51	0.06
17.85	3.59	3.36	0.08	20.45	3.74	3.51	0.06
17.90	3.59	3.36	0.07	20.50	3.75	3.51	0.06
17.95	3.60	3.36	0.07	20.55	3.75	3.51	0.06
18.00	3.60	3.37	0.07	20.60	3.75	3.52	0.06
18.05	3.60	3.37	0.07	20.65	3.75	3.52	0.06
18.10	3.61	3.37	0.07	20.70	3.76	3.52	0.06
18.15	3.61	3.38	0.07	20.75	3.76	3.52	0.06

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.76	3.53	0.06	23.40	3.88	3.65	0.05
20.85	3.76	3.53	0.06	23.45	3.89	3.65	0.05
20.90	3.77	3.53	0.06	23.50	3.89	3.65	0.05
20.95	3.77	3.54	0.06	23.55	3.89	3.66	0.05
21.00	3.77	3.54	0.06	23.60	3.89	3.66	0.05
21.05	3.77	3.54	0.06	23.65	3.89	3.66	0.05
21.10	3.78	3.54	0.06	23.70	3.90	3.66	0.05
21.15	3.78	3.55	0.06	23.75	3.90	3.66	0.05
21.20	3.78	3.55	0.06	23.80	3.90	3.67	0.05
21.25	3.78	3.55	0.06	23.85	3.90	3.67	0.05
21.30	3.79	3.55	0.06	23.90	3.90	3.67	0.05
21.35	3.79	3.56	0.06	23.95	3.91	3.67	0.05
21.40	3.79	3.56	0.06	24.00	**3.91**	**3.68**	0.05
21.45	3.79	3.56	0.06				
21.50	3.80	3.56	0.06				
21.55	3.80	3.57	0.06				
21.60	3.80	3.57	0.06				
21.65	3.80	3.57	0.06				
21.70	3.81	3.57	0.05				
21.75	3.81	3.58	0.05				
21.80	3.81	3.58	0.05				
21.85	3.81	3.58	0.05				
21.90	3.82	3.58	0.05				
21.95	3.82	3.58	0.05				
22.00	3.82	3.59	0.05				
22.05	3.82	3.59	0.05				
22.10	3.83	3.59	0.05				
22.15	3.83	3.59	0.05				
22.20	3.83	3.60	0.05				
22.25	3.83	3.60	0.05				
22.30	3.84	3.60	0.05				
22.35	3.84	3.60	0.05				
22.40	3.84	3.61	0.05				
22.45	3.84	3.61	0.05				
22.50	3.84	3.61	0.05				
22.55	3.85	3.61	0.05				
22.60	3.85	3.61	0.05				
22.65	3.85	3.62	0.05				
22.70	3.85	3.62	0.05				
22.75	3.86	3.62	0.05				
22.80	3.86	3.62	0.05				
22.85	3.86	3.63	0.05				
22.90	3.86	3.63	0.05				
22.95	3.87	3.63	0.05				
23.00	3.87	3.63	0.05				
23.05	3.87	3.63	0.05				
23.10	3.87	3.64	0.05				
23.15	3.87	3.64	0.05				
23.20	3.88	3.64	0.05				
23.25	3.88	3.64	0.05				
23.30	3.88	3.65	0.05				
23.35	3.88	3.65	0.05				

Summary for Subcatchment PDA3 PERV: PDA3 PERV

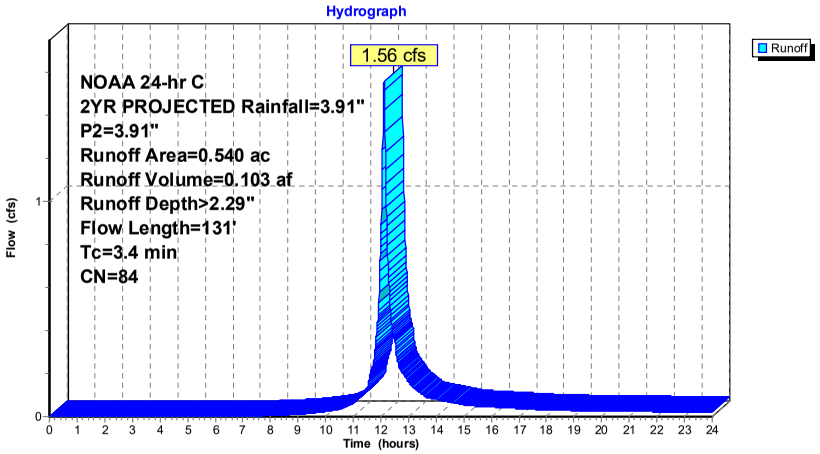
Runoff = 1.56 cfs @ 12.12 hrs, Volume= 0.103 af, Depth> 2.29"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR PROJECTED Rainfall=3.91", P2=3.91"

	Area (ac)	CN	Description
*	0.540	84	>75% Grass cover, Good, HSG D
	0.540		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.7	23	0.0200	0.14		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.1	42	0.0150	5.59	6.86	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
3.4	131	Total			

Subcatchment PDA3 PERV: PDA3 PERV



Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.12	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.12	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.12	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.13	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.13	0.00	0.00
0.25	0.01	0.00	0.00	2.85	0.13	0.00	0.00
0.30	0.01	0.00	0.00	2.90	0.13	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.14	0.00	0.00
0.40	0.02	0.00	0.00	3.00	0.14	0.00	0.00
0.45	0.02	0.00	0.00	3.05	0.14	0.00	0.00
0.50	0.02	0.00	0.00	3.10	0.14	0.00	0.00
0.55	0.02	0.00	0.00	3.15	0.15	0.00	0.00
0.60	0.03	0.00	0.00	3.20	0.15	0.00	0.00
0.65	0.03	0.00	0.00	3.25	0.15	0.00	0.00
0.70	0.03	0.00	0.00	3.30	0.15	0.00	0.00
0.75	0.03	0.00	0.00	3.35	0.16	0.00	0.00
0.80	0.03	0.00	0.00	3.40	0.16	0.00	0.00
0.85	0.04	0.00	0.00	3.45	0.16	0.00	0.00
0.90	0.04	0.00	0.00	3.50	0.16	0.00	0.00
0.95	0.04	0.00	0.00	3.55	0.17	0.00	0.00
1.00	0.04	0.00	0.00	3.60	0.17	0.00	0.00
1.05	0.04	0.00	0.00	3.65	0.17	0.00	0.00
1.10	0.05	0.00	0.00	3.70	0.17	0.00	0.00
1.15	0.05	0.00	0.00	3.75	0.18	0.00	0.00
1.20	0.05	0.00	0.00	3.80	0.18	0.00	0.00
1.25	0.05	0.00	0.00	3.85	0.18	0.00	0.00
1.30	0.06	0.00	0.00	3.90	0.19	0.00	0.00
1.35	0.06	0.00	0.00	3.95	0.19	0.00	0.00
1.40	0.06	0.00	0.00	4.00	0.19	0.00	0.00
1.45	0.06	0.00	0.00	4.05	0.19	0.00	0.00
1.50	0.07	0.00	0.00	4.10	0.20	0.00	0.00
1.55	0.07	0.00	0.00	4.15	0.20	0.00	0.00
1.60	0.07	0.00	0.00	4.20	0.20	0.00	0.00
1.65	0.07	0.00	0.00	4.25	0.21	0.00	0.00
1.70	0.07	0.00	0.00	4.30	0.21	0.00	0.00
1.75	0.08	0.00	0.00	4.35	0.21	0.00	0.00
1.80	0.08	0.00	0.00	4.40	0.21	0.00	0.00
1.85	0.08	0.00	0.00	4.45	0.22	0.00	0.00
1.90	0.08	0.00	0.00	4.50	0.22	0.00	0.00
1.95	0.09	0.00	0.00	4.55	0.22	0.00	0.00
2.00	0.09	0.00	0.00	4.60	0.23	0.00	0.00
2.05	0.09	0.00	0.00	4.65	0.23	0.00	0.00
2.10	0.09	0.00	0.00	4.70	0.23	0.00	0.00
2.15	0.10	0.00	0.00	4.75	0.23	0.00	0.00
2.20	0.10	0.00	0.00	4.80	0.24	0.00	0.00
2.25	0.10	0.00	0.00	4.85	0.24	0.00	0.00
2.30	0.10	0.00	0.00	4.90	0.24	0.00	0.00
2.35	0.11	0.00	0.00	4.95	0.25	0.00	0.00
2.40	0.11	0.00	0.00	5.00	0.25	0.00	0.00
2.45	0.11	0.00	0.00	5.05	0.25	0.00	0.00
2.50	0.11	0.00	0.00	5.10	0.25	0.00	0.00
2.55	0.12	0.00	0.00	5.15	0.26	0.00	0.00

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.26	0.00	0.00	7.80	0.45	0.00	0.00
5.25	0.26	0.00	0.00	7.85	0.45	0.00	0.00
5.30	0.27	0.00	0.00	7.90	0.46	0.00	0.00
5.35	0.27	0.00	0.00	7.95	0.46	0.00	0.00
5.40	0.27	0.00	0.00	8.00	0.47	0.00	0.00
5.45	0.28	0.00	0.00	8.05	0.47	0.00	0.00
5.50	0.28	0.00	0.00	8.10	0.48	0.00	0.00
5.55	0.28	0.00	0.00	8.15	0.48	0.01	0.00
5.60	0.28	0.00	0.00	8.20	0.49	0.01	0.01
5.65	0.29	0.00	0.00	8.25	0.49	0.01	0.01
5.70	0.29	0.00	0.00	8.30	0.50	0.01	0.01
5.75	0.29	0.00	0.00	8.35	0.50	0.01	0.01
5.80	0.30	0.00	0.00	8.40	0.51	0.01	0.01
5.85	0.30	0.00	0.00	8.45	0.51	0.01	0.01
5.90	0.30	0.00	0.00	8.50	0.52	0.01	0.01
5.95	0.31	0.00	0.00	8.55	0.52	0.01	0.01
6.00	0.31	0.00	0.00	8.60	0.53	0.01	0.01
6.05	0.31	0.00	0.00	8.65	0.53	0.01	0.01
6.10	0.32	0.00	0.00	8.70	0.54	0.01	0.01
6.15	0.32	0.00	0.00	8.75	0.54	0.01	0.01
6.20	0.32	0.00	0.00	8.80	0.55	0.01	0.01
6.25	0.33	0.00	0.00	8.85	0.55	0.01	0.01
6.30	0.33	0.00	0.00	8.90	0.56	0.02	0.01
6.35	0.33	0.00	0.00	8.95	0.57	0.02	0.01
6.40	0.34	0.00	0.00	9.00	0.57	0.02	0.01
6.45	0.34	0.00	0.00	9.05	0.58	0.02	0.01
6.50	0.34	0.00	0.00	9.10	0.58	0.02	0.01
6.55	0.35	0.00	0.00	9.15	0.59	0.02	0.01
6.60	0.35	0.00	0.00	9.20	0.59	0.02	0.01
6.65	0.35	0.00	0.00	9.25	0.60	0.02	0.01
6.70	0.36	0.00	0.00	9.30	0.61	0.02	0.01
6.75	0.36	0.00	0.00	9.35	0.61	0.03	0.01
6.80	0.37	0.00	0.00	9.40	0.62	0.03	0.01
6.85	0.37	0.00	0.00	9.45	0.63	0.03	0.02
6.90	0.37	0.00	0.00	9.50	0.63	0.03	0.02
6.95	0.38	0.00	0.00	9.55	0.64	0.03	0.02
7.00	0.38	0.00	0.00	9.60	0.65	0.03	0.02
7.05	0.39	0.00	0.00	9.65	0.66	0.03	0.02
7.10	0.39	0.00	0.00	9.70	0.66	0.04	0.02
7.15	0.39	0.00	0.00	9.75	0.67	0.04	0.02
7.20	0.40	0.00	0.00	9.80	0.68	0.04	0.02
7.25	0.40	0.00	0.00	9.85	0.69	0.04	0.02
7.30	0.41	0.00	0.00	9.90	0.70	0.04	0.02
7.35	0.41	0.00	0.00	9.95	0.70	0.05	0.02
7.40	0.41	0.00	0.00	10.00	0.71	0.05	0.02
7.45	0.42	0.00	0.00	10.05	0.72	0.05	0.02
7.50	0.42	0.00	0.00	10.10	0.73	0.05	0.03
7.55	0.43	0.00	0.00	10.15	0.74	0.06	0.03
7.60	0.43	0.00	0.00	10.20	0.75	0.06	0.03
7.65	0.44	0.00	0.00	10.25	0.76	0.06	0.03
7.70	0.44	0.00	0.00	10.30	0.77	0.07	0.03
7.75	0.45	0.00	0.00	10.35	0.78	0.07	0.03

pre and post projected rainfall *NOAA 24-hr C 2YR PROJECTED Rainfall=3.91", P2=3.91"*
Prepared by Pennoni Associates, Inc Printed 3/31/2026
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Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.79	0.07	0.03	13.00	2.97	1.49	0.16
10.45	0.80	0.07	0.03	13.05	2.99	1.51	0.15
10.50	0.81	0.08	0.03	13.10	3.00	1.52	0.15
10.55	0.82	0.08	0.04	13.15	3.02	1.53	0.14
10.60	0.83	0.08	0.04	13.20	3.03	1.54	0.13
10.65	0.84	0.09	0.04	13.25	3.04	1.55	0.13
10.70	0.85	0.09	0.04	13.30	3.06	1.56	0.12
10.75	0.87	0.10	0.05	13.35	3.07	1.57	0.12
10.80	0.88	0.10	0.05	13.40	3.08	1.58	0.11
10.85	0.89	0.11	0.05	13.45	3.09	1.59	0.11
10.90	0.91	0.11	0.06	13.50	3.10	1.60	0.10
10.95	0.92	0.12	0.06	13.55	3.11	1.61	0.10
11.00	0.94	0.13	0.06	13.60	3.12	1.62	0.09
11.05	0.96	0.13	0.07	13.65	3.13	1.63	0.09
11.10	0.97	0.14	0.07	13.70	3.14	1.63	0.09
11.15	0.99	0.15	0.08	13.75	3.15	1.64	0.09
11.20	1.01	0.16	0.09	13.80	3.16	1.65	0.09
11.25	1.03	0.17	0.09	13.85	3.17	1.66	0.08
11.30	1.06	0.18	0.10	13.90	3.18	1.67	0.08
11.35	1.08	0.19	0.11	13.95	3.19	1.67	0.08
11.40	1.10	0.20	0.12	14.00	3.20	1.68	0.08
11.45	1.13	0.21	0.12	14.05	3.21	1.69	0.08
11.50	1.16	0.22	0.13	14.10	3.21	1.69	0.08
11.55	1.19	0.24	0.16	14.15	3.22	1.70	0.08
11.60	1.23	0.26	0.19	14.20	3.23	1.71	0.08
11.65	1.28	0.29	0.21	14.25	3.24	1.71	0.07
11.70	1.32	0.31	0.23	14.30	3.25	1.72	0.07
11.75	1.37	0.34	0.27	14.35	3.25	1.73	0.07
11.80	1.43	0.37	0.32	14.40	3.26	1.73	0.07
11.85	1.51	0.42	0.39	14.45	3.27	1.74	0.07
11.90	1.59	0.47	0.46	14.50	3.28	1.75	0.07
11.95	1.73	0.56	0.63	14.55	3.28	1.75	0.07
12.00	1.86	0.65	0.82	14.60	3.29	1.76	0.06
12.05	2.09	0.81	1.15	14.65	3.30	1.76	0.06
12.10	2.32	0.98	**1.51**	14.70	3.30	1.77	0.06
12.15	2.40	1.04	**1.33**	14.75	3.31	1.77	0.06
12.20	2.48	1.10	0.97	14.80	3.32	1.78	0.06
12.25	2.54	1.14	0.75	14.85	3.32	1.78	0.06
12.30	2.59	1.19	0.60	14.90	3.33	1.79	0.06
12.35	2.63	1.22	0.49	14.95	3.33	1.79	0.06
12.40	2.68	1.25	0.42	15.00	3.34	1.80	0.05
12.45	2.72	1.29	0.38	15.05	3.34	1.80	0.05
12.50	2.75	1.32	0.36	15.10	3.35	1.81	0.05
12.55	2.78	1.34	0.31	15.15	3.36	1.81	0.05
12.60	2.81	1.36	0.26	15.20	3.36	1.82	0.05
12.65	2.83	1.38	0.24	15.25	3.37	1.82	0.05
12.70	2.85	1.40	0.22	15.30	3.37	1.83	0.05
12.75	2.88	1.41	0.21	15.35	3.38	1.83	0.05
12.80	2.90	1.43	0.20	15.40	3.38	1.84	0.05
12.85	2.92	1.45	0.19	15.45	3.39	1.84	0.05
12.90	2.94	1.46	0.18	15.50	3.39	1.84	0.05
12.95	2.95	1.48	0.17	15.55	3.40	1.85	0.05

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	3.40	1.85	0.05	18.20	3.61	2.03	0.03
15.65	3.41	1.86	0.05	18.25	3.62	2.04	0.03
15.70	3.41	1.86	0.05	18.30	3.62	2.04	0.03
15.75	3.42	1.87	0.05	18.35	3.62	2.04	0.03
15.80	3.42	1.87	0.05	18.40	3.63	2.04	0.03
15.85	3.43	1.87	0.05	18.45	3.63	2.05	0.03
15.90	3.43	1.88	0.05	18.50	3.63	2.05	0.03
15.95	3.44	1.88	0.04	18.55	3.63	2.05	0.03
16.00	3.44	1.89	0.04	18.60	3.64	2.05	0.03
16.05	3.45	1.89	0.04	18.65	3.64	2.06	0.03
16.10	3.45	1.89	0.04	18.70	3.64	2.06	0.03
16.15	3.46	1.90	0.04	18.75	3.65	2.06	0.03
16.20	3.46	1.90	0.04	18.80	3.65	2.07	0.03
16.25	3.46	1.91	0.04	18.85	3.65	2.07	0.03
16.30	3.47	1.91	0.04	18.90	3.66	2.07	0.03
16.35	3.47	1.91	0.04	18.95	3.66	2.07	0.03
16.40	3.48	1.92	0.04	19.00	3.66	2.08	0.03
16.45	3.48	1.92	0.04	19.05	3.66	2.08	0.03
16.50	3.49	1.93	0.04	19.10	3.67	2.08	0.03
16.55	3.49	1.93	0.04	19.15	3.67	2.08	0.03
16.60	3.50	1.93	0.04	19.20	3.67	2.09	0.03
16.65	3.50	1.94	0.04	19.25	3.68	2.09	0.03
16.70	3.50	1.94	0.04	19.30	3.68	2.09	0.03
16.75	3.51	1.94	0.04	19.35	3.68	2.09	0.03
16.80	3.51	1.95	0.04	19.40	3.68	2.10	0.03
16.85	3.52	1.95	0.04	19.45	3.69	2.10	0.03
16.90	3.52	1.95	0.04	19.50	3.69	2.10	0.03
16.95	3.52	1.96	0.04	19.55	3.69	2.10	0.03
17.00	3.53	1.96	0.04	19.60	3.70	2.11	0.03
17.05	3.53	1.96	0.04	19.65	3.70	2.11	0.03
17.10	3.54	1.97	0.04	19.70	3.70	2.11	0.03
17.15	3.54	1.97	0.04	19.75	3.70	2.11	0.03
17.20	3.54	1.97	0.04	19.80	3.71	2.12	0.03
17.25	3.55	1.98	0.04	19.85	3.71	2.12	0.03
17.30	3.55	1.98	0.04	19.90	3.71	2.12	0.03
17.35	3.56	1.98	0.04	19.95	3.72	2.12	0.03
17.40	3.56	1.99	0.03	20.00	3.72	2.12	0.03
17.45	3.56	1.99	0.03	20.05	3.72	2.13	0.03
17.50	3.57	1.99	0.03	20.10	3.72	2.13	0.03
17.55	3.57	2.00	0.03	20.15	3.73	2.13	0.03
17.60	3.57	2.00	0.03	20.20	3.73	2.13	0.03
17.65	3.58	2.00	0.03	20.25	3.73	2.14	0.03
17.70	3.58	2.01	0.03	20.30	3.74	2.14	0.03
17.75	3.58	2.01	0.03	20.35	3.74	2.14	0.03
17.80	3.59	2.01	0.03	20.40	3.74	2.14	0.03
17.85	3.59	2.01	0.03	20.45	3.74	2.15	0.03
17.90	3.59	2.02	0.03	20.50	3.75	2.15	0.03
17.95	3.60	2.02	0.03	20.55	3.75	2.15	0.03
18.00	3.60	2.02	0.03	20.60	3.75	2.15	0.03
18.05	3.60	2.03	0.03	20.65	3.75	2.16	0.03
18.10	3.61	2.03	0.03	20.70	3.76	2.16	0.03
18.15	3.61	2.03	0.03	20.75	3.76	2.16	0.02

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.76	2.16	0.02	23.40	3.88	2.27	0.02
20.85	3.76	2.16	0.02	23.45	3.89	2.27	0.02
20.90	3.77	2.17	0.02	23.50	3.89	2.27	0.02
20.95	3.77	2.17	0.02	23.55	3.89	2.28	0.02
21.00	3.77	2.17	0.02	23.60	3.89	2.28	0.02
21.05	3.77	2.17	0.02	23.65	3.89	2.28	0.02
21.10	3.78	2.18	0.02	23.70	3.90	2.28	0.02
21.15	3.78	2.18	0.02	23.75	3.90	2.28	0.02
21.20	3.78	2.18	0.02	23.80	3.90	2.28	0.02
21.25	3.78	2.18	0.02	23.85	3.90	2.29	0.02
21.30	3.79	2.18	0.02	23.90	3.90	2.29	0.02
21.35	3.79	2.19	0.02	23.95	3.91	2.29	0.02
21.40	3.79	2.19	0.02	24.00	**3.91**	**2.29**	0.02
21.45	3.79	2.19	0.02				
21.50	3.80	2.19	0.02				
21.55	3.80	2.20	0.02				
21.60	3.80	2.20	0.02				
21.65	3.80	2.20	0.02				
21.70	3.81	2.20	0.02				
21.75	3.81	2.20	0.02				
21.80	3.81	2.21	0.02				
21.85	3.81	2.21	0.02				
21.90	3.82	2.21	0.02				
21.95	3.82	2.21	0.02				
22.00	3.82	2.21	0.02				
22.05	3.82	2.22	0.02				
22.10	3.83	2.22	0.02				
22.15	3.83	2.22	0.02				
22.20	3.83	2.22	0.02				
22.25	3.83	2.22	0.02				
22.30	3.84	2.23	0.02				
22.35	3.84	2.23	0.02				
22.40	3.84	2.23	0.02				
22.45	3.84	2.23	0.02				
22.50	3.84	2.23	0.02				
22.55	3.85	2.24	0.02				
22.60	3.85	2.24	0.02				
22.65	3.85	2.24	0.02				
22.70	3.85	2.24	0.02				
22.75	3.86	2.24	0.02				
22.80	3.86	2.25	0.02				
22.85	3.86	2.25	0.02				
22.90	3.86	2.25	0.02				
22.95	3.87	2.25	0.02				
23.00	3.87	2.25	0.02				
23.05	3.87	2.26	0.02				
23.10	3.87	2.26	0.02				
23.15	3.87	2.26	0.02				
23.20	3.88	2.26	0.02				
23.25	3.88	2.26	0.02				
23.30	3.88	2.27	0.02				
23.35	3.88	2.27	0.02				

Summary for Subcatchment PDA4 IMP: PDA4 IMP

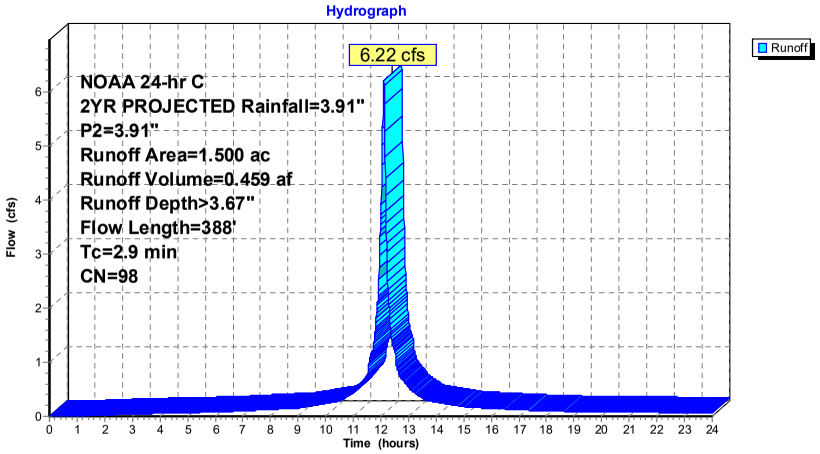
Runoff = 6.22 cfs @ 12.11 hrs, Volume= 0.459 af, Depth> 3.67"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 2YR PROJECTED Rainfall=3.91", P2=3.91"

	Area (ac)	CN	Description
*	1.500	98	Impervious vehicular
	1.500		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0160	1.39		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	88	0.0150	2.49		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.5	100	0.0039	3.22	5.69	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.6	100	0.0020	2.79	8.77	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
2.9	388	Total			

Subcatchment PDA4 IMP: PDA4 IMP



Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.12	0.02	0.03
0.05	0.00	0.00	0.00	2.65	0.12	0.02	0.04
0.10	0.01	0.00	0.00	2.70	0.12	0.02	0.04
0.15	0.01	0.00	0.00	2.75	0.13	0.02	0.04
0.20	0.01	0.00	0.00	2.80	0.13	0.03	0.04
0.25	0.01	0.00	0.00	2.85	0.13	0.03	0.04
0.30	0.01	0.00	0.00	2.90	0.13	0.03	0.04
0.35	0.02	0.00	0.00	2.95	0.14	0.03	0.04
0.40	0.02	0.00	0.00	3.00	0.14	0.03	0.04
0.45	0.02	0.00	0.00	3.05	0.14	0.03	0.04
0.50	0.02	0.00	0.00	3.10	0.14	0.03	0.04
0.55	0.02	0.00	0.00	3.15	0.15	0.04	0.04
0.60	0.03	0.00	0.00	3.20	0.15	0.04	0.04
0.65	0.03	0.00	0.00	3.25	0.15	0.04	0.04
0.70	0.03	0.00	0.00	3.30	0.15	0.04	0.05
0.75	0.03	0.00	0.00	3.35	0.16	0.04	0.05
0.80	0.03	0.00	0.00	3.40	0.16	0.04	0.05
0.85	0.04	0.00	0.00	3.45	0.16	0.04	0.05
0.90	0.04	0.00	0.00	3.50	0.16	0.05	0.05
0.95	0.04	0.00	0.00	3.55	0.17	0.05	0.05
1.00	0.04	0.00	0.00	3.60	0.17	0.05	0.05
1.05	0.04	0.00	0.00	3.65	0.17	0.05	0.05
1.10	0.05	0.00	0.00	3.70	0.17	0.05	0.05
1.15	0.05	0.00	0.00	3.75	0.18	0.05	0.05
1.20	0.05	0.00	0.00	3.80	0.18	0.06	0.05
1.25	0.05	0.00	0.01	3.85	0.18	0.06	0.05
1.30	0.06	0.00	0.01	3.90	0.19	0.06	0.05
1.35	0.06	0.00	0.01	3.95	0.19	0.06	0.05
1.40	0.06	0.00	0.01	4.00	0.19	0.06	0.06
1.45	0.06	0.00	0.01	4.05	0.19	0.07	0.06
1.50	0.07	0.00	0.01	4.10	0.20	0.07	0.06
1.55	0.07	0.00	0.01	4.15	0.20	0.07	0.06
1.60	0.07	0.00	0.01	4.20	0.20	0.07	0.06
1.65	0.07	0.00	0.02	4.25	0.21	0.07	0.06
1.70	0.07	0.00	0.02	4.30	0.21	0.08	0.06
1.75	0.08	0.01	0.02	4.35	0.21	0.08	0.06
1.80	0.08	0.01	0.02	4.40	0.21	0.08	0.06
1.85	0.08	0.01	0.02	4.45	0.22	0.08	0.06
1.90	0.08	0.01	0.02	4.50	0.22	0.08	0.06
1.95	0.09	0.01	0.02	4.55	0.22	0.09	0.06
2.00	0.09	0.01	0.02	4.60	0.23	0.09	0.06
2.05	0.09	0.01	0.02	4.65	0.23	0.09	0.06
2.10	0.09	0.01	0.03	4.70	0.23	0.09	0.06
2.15	0.10	0.01	0.03	4.75	0.23	0.09	0.06
2.20	0.10	0.01	0.03	4.80	0.24	0.10	0.06
2.25	0.10	0.01	0.03	4.85	0.24	0.10	0.07
2.30	0.10	0.01	0.03	4.90	0.24	0.10	0.07
2.35	0.11	0.02	0.03	4.95	0.25	0.10	0.07
2.40	0.11	0.02	0.03	5.00	0.25	0.10	0.07
2.45	0.11	0.02	0.03	5.05	0.25	0.11	0.07
2.50	0.11	0.02	0.03	5.10	0.25	0.11	0.07
2.55	0.12	0.02	0.03	5.15	0.26	0.11	0.07

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.26	0.11	0.07	7.80	0.45	0.27	0.12
5.25	0.26	0.12	0.07	7.85	0.45	0.28	0.12
5.30	0.27	0.12	0.07	7.90	0.46	0.28	0.12
5.35	0.27	0.12	0.07	7.95	0.46	0.29	0.13
5.40	0.27	0.12	0.07	8.00	0.47	0.29	0.13
5.45	0.28	0.13	0.07	8.05	0.47	0.29	0.13
5.50	0.28	0.13	0.07	8.10	0.48	0.30	0.13
5.55	0.28	0.13	0.07	8.15	0.48	0.30	0.13
5.60	0.28	0.13	0.07	8.20	0.49	0.31	0.13
5.65	0.29	0.14	0.07	8.25	0.49	0.31	0.13
5.70	0.29	0.14	0.07	8.30	0.50	0.32	0.13
5.75	0.29	0.14	0.07	8.35	0.50	0.32	0.14
5.80	0.30	0.14	0.08	8.40	0.51	0.32	0.14
5.85	0.30	0.15	0.08	8.45	0.51	0.33	0.14
5.90	0.30	0.15	0.08	8.50	0.52	0.33	0.14
5.95	0.31	0.15	0.08	8.55	0.52	0.34	0.14
6.00	0.31	0.15	0.08	8.60	0.53	0.34	0.14
6.05	0.31	0.16	0.08	8.65	0.53	0.35	0.14
6.10	0.32	0.16	0.08	8.70	0.54	0.35	0.14
6.15	0.32	0.16	0.08	8.75	0.54	0.36	0.15
6.20	0.32	0.16	0.08	8.80	0.55	0.36	0.15
6.25	0.33	0.17	0.08	8.85	0.55	0.37	0.15
6.30	0.33	0.17	0.08	8.90	0.56	0.37	0.15
6.35	0.33	0.17	0.09	8.95	0.57	0.38	0.15
6.40	0.34	0.18	0.09	9.00	0.57	0.38	0.15
6.45	0.34	0.18	0.09	9.05	0.58	0.39	0.16
6.50	0.34	0.18	0.09	9.10	0.58	0.39	0.16
6.55	0.35	0.18	0.09	9.15	0.59	0.40	0.16
6.60	0.35	0.19	0.09	9.20	0.59	0.40	0.17
6.65	0.35	0.19	0.09	9.25	0.60	0.41	0.17
6.70	0.36	0.19	0.09	9.30	0.61	0.42	0.18
6.75	0.36	0.20	0.09	9.35	0.61	0.42	0.18
6.80	0.37	0.20	0.10	9.40	0.62	0.43	0.19
6.85	0.37	0.20	0.10	9.45	0.63	0.44	0.19
6.90	0.37	0.21	0.10	9.50	0.63	0.44	0.19
6.95	0.38	0.21	0.10	9.55	0.64	0.45	0.20
7.00	0.38	0.21	0.10	9.60	0.65	0.46	0.20
7.05	0.39	0.22	0.10	9.65	0.66	0.46	0.21
7.10	0.39	0.22	0.10	9.70	0.66	0.47	0.21
7.15	0.39	0.22	0.11	9.75	0.67	0.48	0.22
7.20	0.40	0.23	0.11	9.80	0.68	0.48	0.22
7.25	0.40	0.23	0.11	9.85	0.69	0.49	0.23
7.30	0.41	0.23	0.11	9.90	0.70	0.50	0.23
7.35	0.41	0.24	0.11	9.95	0.70	0.51	0.23
7.40	0.41	0.24	0.11	10.00	0.71	0.52	0.24
7.45	0.42	0.25	0.11	10.05	0.72	0.52	0.24
7.50	0.42	0.25	0.11	10.10	0.73	0.53	0.25
7.55	0.43	0.25	0.12	10.15	0.74	0.54	0.25
7.60	0.43	0.26	0.12	10.20	0.75	0.55	0.26
7.65	0.44	0.26	0.12	10.25	0.76	0.56	0.26
7.70	0.44	0.26	0.12	10.30	0.77	0.57	0.26
7.75	0.45	0.27	0.12	10.35	0.78	0.58	0.27

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	0.79	0.59	0.27	13.00	2.97	2.74	0.55
10.45	0.80	0.59	0.28	13.05	2.99	2.76	0.51
10.50	0.81	0.60	0.28	13.10	3.00	2.77	0.48
10.55	0.82	0.61	0.30	13.15	3.02	2.79	0.46
10.60	0.83	0.62	0.31	13.20	3.03	2.80	0.44
10.65	0.84	0.64	0.33	13.25	3.04	2.81	0.42
10.70	0.85	0.65	0.34	13.30	3.06	2.83	0.41
10.75	0.87	0.66	0.36	13.35	3.07	2.84	0.39
10.80	0.88	0.67	0.38	13.40	3.08	2.85	0.37
10.85	0.89	0.69	0.40	13.45	3.09	2.86	0.36
10.90	0.91	0.70	0.41	13.50	3.10	2.87	0.34
10.95	0.92	0.72	0.43	13.55	3.11	2.88	0.32
11.00	0.94	0.73	0.44	13.60	3.12	2.89	0.31
11.05	0.96	0.75	0.47	13.65	3.13	2.90	0.30
11.10	0.97	0.77	0.50	13.70	3.14	2.91	0.29
11.15	0.99	0.78	0.53	13.75	3.15	2.92	0.29
11.20	1.01	0.80	0.56	13.80	3.16	2.93	0.28
11.25	1.03	0.82	0.60	13.85	3.17	2.94	0.28
11.30	1.06	0.85	0.62	13.90	3.18	2.95	0.27
11.35	1.08	0.87	0.66	13.95	3.19	2.96	0.27
11.40	1.10	0.89	0.69	14.00	3.20	2.96	0.26
11.45	1.13	0.92	0.72	14.05	3.21	2.97	0.26
11.50	1.16	0.94	0.74	14.10	3.21	2.98	0.26
11.55	1.19	0.98	0.91	14.15	3.22	2.99	0.25
11.60	1.23	1.02	1.07	14.20	3.23	3.00	0.25
11.65	1.28	1.06	1.16	14.25	3.24	3.01	0.24
11.70	1.32	1.10	1.21	14.30	3.25	3.01	0.24
11.75	1.37	1.16	1.41	14.35	3.25	3.02	0.23
11.80	1.43	1.21	1.58	14.40	3.26	3.03	0.23
11.85	1.51	1.29	1.92	14.45	3.27	3.04	0.22
11.90	1.59	1.37	2.19	14.50	3.28	3.04	0.22
11.95	1.73	1.50	2.98	14.55	3.28	3.05	0.22
12.00	1.86	1.64	3.65	14.60	3.29	3.06	0.21
12.05	2.09	1.87	5.02	14.65	3.30	3.06	0.21
12.10	2.32	2.09	**6.13**	14.70	3.30	3.07	0.20
12.15	2.40	2.17	**4.81**	14.75	3.31	3.08	0.20
12.20	2.48	2.25	3.38	14.80	3.32	3.08	0.19
12.25	2.54	2.31	2.50	14.85	3.32	3.09	0.19
12.30	2.59	2.36	1.99	14.90	3.33	3.09	0.19
12.35	2.63	2.40	1.62	14.95	3.33	3.10	0.18
12.40	2.68	2.45	1.39	15.00	3.34	3.11	0.18
12.45	2.72	2.48	1.27	15.05	3.34	3.11	0.17
12.50	2.75	2.52	1.22	15.10	3.35	3.12	0.17
12.55	2.78	2.55	1.03	15.15	3.36	3.12	0.17
12.60	2.81	2.57	0.87	15.20	3.36	3.13	0.16
12.65	2.83	2.60	0.79	15.25	3.37	3.13	0.16
12.70	2.85	2.62	0.74	15.30	3.37	3.14	0.16
12.75	2.88	2.64	0.70	15.35	3.38	3.14	0.16
12.80	2.90	2.67	0.67	15.40	3.38	3.15	0.16
12.85	2.92	2.69	0.64	15.45	3.39	3.15	0.16
12.90	2.94	2.70	0.61	15.50	3.39	3.16	0.16
12.95	2.95	2.72	0.57	15.55	3.40	3.16	0.16

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	3.40	3.17	0.15	18.20	3.61	3.38	0.09
15.65	3.41	3.17	0.15	18.25	3.62	3.38	0.09
15.70	3.41	3.18	0.15	18.30	3.62	3.39	0.09
15.75	3.42	3.18	0.15	18.35	3.62	3.39	0.09
15.80	3.42	3.19	0.15	18.40	3.63	3.39	0.09
15.85	3.43	3.19	0.15	18.45	3.63	3.39	0.09
15.90	3.43	3.20	0.15	18.50	3.63	3.40	0.09
15.95	3.44	3.20	0.15	18.55	3.63	3.40	0.09
16.00	3.44	3.21	0.14	18.60	3.64	3.40	0.09
16.05	3.45	3.21	0.14	18.65	3.64	3.41	0.09
16.10	3.45	3.22	0.14	18.70	3.64	3.41	0.09
16.15	3.46	3.22	0.14	18.75	3.65	3.41	0.09
16.20	3.46	3.23	0.14	18.80	3.65	3.42	0.09
16.25	3.46	3.23	0.14	18.85	3.65	3.42	0.09
16.30	3.47	3.24	0.14	18.90	3.66	3.42	0.09
16.35	3.47	3.24	0.14	18.95	3.66	3.42	0.09
16.40	3.48	3.24	0.14	19.00	3.66	3.43	0.09
16.45	3.48	3.25	0.13	19.05	3.66	3.43	0.09
16.50	3.49	3.25	0.13	19.10	3.67	3.43	0.09
16.55	3.49	3.26	0.13	19.15	3.67	3.44	0.09
16.60	3.50	3.26	0.13	19.20	3.67	3.44	0.09
16.65	3.50	3.27	0.13	19.25	3.68	3.44	0.09
16.70	3.50	3.27	0.13	19.30	3.68	3.44	0.09
16.75	3.51	3.27	0.13	19.35	3.68	3.45	0.09
16.80	3.51	3.28	0.13	19.40	3.68	3.45	0.09
16.85	3.52	3.28	0.12	19.45	3.69	3.45	0.09
16.90	3.52	3.29	0.12	19.50	3.69	3.46	0.09
16.95	3.52	3.29	0.12	19.55	3.69	3.46	0.09
17.00	3.53	3.30	0.12	19.60	3.70	3.46	0.09
17.05	3.53	3.30	0.12	19.65	3.70	3.46	0.09
17.10	3.54	3.30	0.12	19.70	3.70	3.47	0.09
17.15	3.54	3.31	0.12	19.75	3.70	3.47	0.09
17.20	3.54	3.31	0.12	19.80	3.71	3.47	0.09
17.25	3.55	3.31	0.12	19.85	3.71	3.48	0.09
17.30	3.55	3.32	0.11	19.90	3.71	3.48	0.08
17.35	3.56	3.32	0.11	19.95	3.72	3.48	0.08
17.40	3.56	3.33	0.11	20.00	3.72	3.48	0.08
17.45	3.56	3.33	0.11	20.05	3.72	3.49	0.08
17.50	3.57	3.33	0.11	20.10	3.72	3.49	0.08
17.55	3.57	3.34	0.11	20.15	3.73	3.49	0.08
17.60	3.57	3.34	0.11	20.20	3.73	3.50	0.08
17.65	3.58	3.34	0.11	20.25	3.73	3.50	0.08
17.70	3.58	3.35	0.10	20.30	3.74	3.50	0.08
17.75	3.58	3.35	0.10	20.35	3.74	3.50	0.08
17.80	3.59	3.35	0.10	20.40	3.74	3.51	0.08
17.85	3.59	3.36	0.10	20.45	3.74	3.51	0.08
17.90	3.59	3.36	0.10	20.50	3.75	3.51	0.08
17.95	3.60	3.36	0.10	20.55	3.75	3.51	0.08
18.00	3.60	3.37	0.10	20.60	3.75	3.52	0.08
18.05	3.60	3.37	0.10	20.65	3.75	3.52	0.08
18.10	3.61	3.37	0.10	20.70	3.76	3.52	0.08
18.15	3.61	3.38	0.09	20.75	3.76	3.52	0.08

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

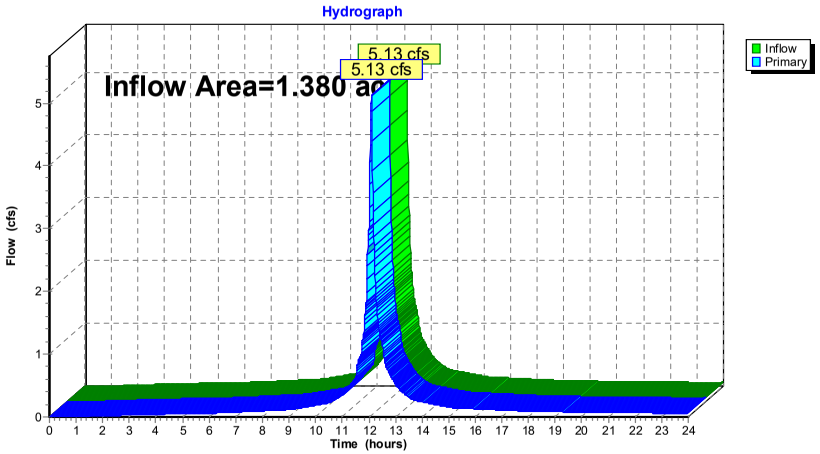
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	3.76	3.53	0.08	23.40	3.88	3.65	0.06
20.85	3.76	3.53	0.08	23.45	3.89	3.65	0.06
20.90	3.77	3.53	0.08	23.50	3.89	3.65	0.06
20.95	3.77	3.54	0.08	23.55	3.89	3.66	0.06
21.00	3.77	3.54	0.08	23.60	3.89	3.66	0.06
21.05	3.77	3.54	0.08	23.65	3.89	3.66	0.06
21.10	3.78	3.54	0.08	23.70	3.90	3.66	0.06
21.15	3.78	3.55	0.08	23.75	3.90	3.66	0.06
21.20	3.78	3.55	0.08	23.80	3.90	3.67	0.06
21.25	3.78	3.55	0.08	23.85	3.90	3.67	0.06
21.30	3.79	3.55	0.08	23.90	3.90	3.67	0.06
21.35	3.79	3.56	0.08	23.95	3.91	3.67	0.07
21.40	3.79	3.56	0.08	24.00	**3.91**	**3.68**	0.07
21.45	3.79	3.56	0.08				
21.50	3.80	3.56	0.08				
21.55	3.80	3.57	0.07				
21.60	3.80	3.57	0.07				
21.65	3.80	3.57	0.07				
21.70	3.81	3.57	0.07				
21.75	3.81	3.58	0.07				
21.80	3.81	3.58	0.07				
21.85	3.81	3.58	0.07				
21.90	3.82	3.58	0.07				
21.95	3.82	3.58	0.07				
22.00	3.82	3.59	0.07				
22.05	3.82	3.59	0.07				
22.10	3.83	3.59	0.07				
22.15	3.83	3.59	0.07				
22.20	3.83	3.60	0.07				
22.25	3.83	3.60	0.07				
22.30	3.84	3.60	0.07				
22.35	3.84	3.60	0.07				
22.40	3.84	3.61	0.07				
22.45	3.84	3.61	0.07				
22.50	3.84	3.61	0.07				
22.55	3.85	3.61	0.07				
22.60	3.85	3.61	0.07				
22.65	3.85	3.62	0.07				
22.70	3.85	3.62	0.07				
22.75	3.86	3.62	0.07				
22.80	3.86	3.62	0.07				
22.85	3.86	3.63	0.07				
22.90	3.86	3.63	0.07				
22.95	3.87	3.63	0.07				
23.00	3.87	3.63	0.07				
23.05	3.87	3.63	0.07				
23.10	3.87	3.64	0.07				
23.15	3.87	3.64	0.07				
23.20	3.88	3.64	0.07				
23.25	3.88	3.64	0.06				
23.30	3.88	3.65	0.06				
23.35	3.88	3.65	0.06				

Summary for Link P1A: P1A

Inflow Area = 1.380 ac, 80.43% Impervious, Inflow Depth > 3.40" for 2YR PROJECTED event
Inflow = 5.13 cfs @ 12.11 hrs, Volume= 0.391 af
Primary = 5.13 cfs @ 12.11 hrs, Volume= 0.391 af, Atten= 0%, Lag= 0.0 min
Routed to Link PPOI-1 : PPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link P1A: P1A



Hydrograph for Link P1A: P1A

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.03	0.00	0.03
0.05	0.00	0.00	0.00	2.65	0.03	0.00	0.03
0.10	0.00	0.00	0.00	2.70	0.03	0.00	0.03
0.15	0.00	0.00	0.00	2.75	0.03	0.00	0.03
0.20	0.00	0.00	0.00	2.80	0.03	0.00	0.03
0.25	0.00	0.00	0.00	2.85	0.03	0.00	0.03
0.30	0.00	0.00	0.00	2.90	0.03	0.00	0.03
0.35	0.00	0.00	0.00	2.95	0.03	0.00	0.03
0.40	0.00	0.00	0.00	3.00	0.03	0.00	0.03
0.45	0.00	0.00	0.00	3.05	0.03	0.00	0.03
0.50	0.00	0.00	0.00	3.10	0.03	0.00	0.03
0.55	0.00	0.00	0.00	3.15	0.03	0.00	0.03
0.60	0.00	0.00	0.00	3.20	0.03	0.00	0.03
0.65	0.00	0.00	0.00	3.25	0.03	0.00	0.03
0.70	0.00	0.00	0.00	3.30	0.03	0.00	0.03
0.75	0.00	0.00	0.00	3.35	0.03	0.00	0.03
0.80	0.00	0.00	0.00	3.40	0.03	0.00	0.03
0.85	0.00	0.00	0.00	3.45	0.04	0.00	0.04
0.90	0.00	0.00	0.00	3.50	0.04	0.00	0.04
0.95	0.00	0.00	0.00	3.55	0.04	0.00	0.04
1.00	0.00	0.00	0.00	3.60	0.04	0.00	0.04
1.05	0.00	0.00	0.00	3.65	0.04	0.00	0.04
1.10	0.00	0.00	0.00	3.70	0.04	0.00	0.04
1.15	0.00	0.00	0.00	3.75	0.04	0.00	0.04
1.20	0.00	0.00	0.00	3.80	0.04	0.00	0.04
1.25	0.00	0.00	0.00	3.85	0.04	0.00	0.04
1.30	0.01	0.00	0.01	3.90	0.04	0.00	0.04
1.35	0.01	0.00	0.01	3.95	0.04	0.00	0.04
1.40	0.01	0.00	0.01	4.00	0.04	0.00	0.04
1.45	0.01	0.00	0.01	4.05	0.04	0.00	0.04
1.50	0.01	0.00	0.01	4.10	0.04	0.00	0.04
1.55	0.01	0.00	0.01	4.15	0.04	0.00	0.04
1.60	0.01	0.00	0.01	4.20	0.04	0.00	0.04
1.65	0.01	0.00	0.01	4.25	0.04	0.00	0.04
1.70	0.01	0.00	0.01	4.30	0.04	0.00	0.04
1.75	0.01	0.00	0.01	4.35	0.04	0.00	0.04
1.80	0.01	0.00	0.01	4.40	0.04	0.00	0.04
1.85	0.02	0.00	0.02	4.45	0.05	0.00	0.05
1.90	0.02	0.00	0.02	4.50	0.05	0.00	0.05
1.95	0.02	0.00	0.02	4.55	0.05	0.00	0.05
2.00	0.02	0.00	0.02	4.60	0.05	0.00	0.05
2.05	0.02	0.00	0.02	4.65	0.05	0.00	0.05
2.10	0.02	0.00	0.02	4.70	0.05	0.00	0.05
2.15	0.02	0.00	0.02	4.75	0.05	0.00	0.05
2.20	0.02	0.00	0.02	4.80	0.05	0.00	0.05
2.25	0.02	0.00	0.02	4.85	0.05	0.00	0.05
2.30	0.02	0.00	0.02	4.90	0.05	0.00	0.05
2.35	0.02	0.00	0.02	4.95	0.05	0.00	0.05
2.40	0.02	0.00	0.02	5.00	0.05	0.00	0.05
2.45	0.02	0.00	0.02	5.05	0.05	0.00	0.05
2.50	0.02	0.00	0.02	5.10	0.05	0.00	0.05
2.55	0.03	0.00	0.03	5.15	0.05	0.00	0.05

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.05	0.00	0.05	7.80	0.09	0.00	0.09
5.25	0.05	0.00	0.05	7.85	0.09	0.00	0.09
5.30	0.05	0.00	0.05	7.90	0.09	0.00	0.09
5.35	0.05	0.00	0.05	7.95	0.09	0.00	0.09
5.40	0.05	0.00	0.05	8.00	0.10	0.00	0.10
5.45	0.05	0.00	0.05	8.05	0.10	0.00	0.10
5.50	0.05	0.00	0.05	8.10	0.10	0.00	0.10
5.55	0.05	0.00	0.05	8.15	0.10	0.00	0.10
5.60	0.05	0.00	0.05	8.20	0.10	0.00	0.10
5.65	0.05	0.00	0.05	8.25	0.10	0.00	0.10
5.70	0.05	0.00	0.05	8.30	0.10	0.00	0.10
5.75	0.06	0.00	0.06	8.35	0.10	0.00	0.10
5.80	0.06	0.00	0.06	8.40	0.10	0.00	0.10
5.85	0.06	0.00	0.06	8.45	0.11	0.00	0.11
5.90	0.06	0.00	0.06	8.50	0.11	0.00	0.11
5.95	0.06	0.00	0.06	8.55	0.11	0.00	0.11
6.00	0.06	0.00	0.06	8.60	0.11	0.00	0.11
6.05	0.06	0.00	0.06	8.65	0.11	0.00	0.11
6.10	0.06	0.00	0.06	8.70	0.11	0.00	0.11
6.15	0.06	0.00	0.06	8.75	0.11	0.00	0.11
6.20	0.06	0.00	0.06	8.80	0.11	0.00	0.11
6.25	0.06	0.00	0.06	8.85	0.11	0.00	0.11
6.30	0.06	0.00	0.06	8.90	0.11	0.00	0.11
6.35	0.06	0.00	0.06	8.95	0.12	0.00	0.12
6.40	0.06	0.00	0.06	9.00	0.12	0.00	0.12
6.45	0.07	0.00	0.07	9.05	0.12	0.00	0.12
6.50	0.07	0.00	0.07	9.10	0.12	0.00	0.12
6.55	0.07	0.00	0.07	9.15	0.13	0.00	0.13
6.60	0.07	0.00	0.07	9.20	0.13	0.00	0.13
6.65	0.07	0.00	0.07	9.25	0.13	0.00	0.13
6.70	0.07	0.00	0.07	9.30	0.14	0.00	0.14
6.75	0.07	0.00	0.07	9.35	0.14	0.00	0.14
6.80	0.07	0.00	0.07	9.40	0.14	0.00	0.14
6.85	0.07	0.00	0.07	9.45	0.15	0.00	0.15
6.90	0.07	0.00	0.07	9.50	0.15	0.00	0.15
6.95	0.07	0.00	0.07	9.55	0.16	0.00	0.16
7.00	0.08	0.00	0.08	9.60	0.16	0.00	0.16
7.05	0.08	0.00	0.08	9.65	0.16	0.00	0.16
7.10	0.08	0.00	0.08	9.70	0.16	0.00	0.16
7.15	0.08	0.00	0.08	9.75	0.17	0.00	0.17
7.20	0.08	0.00	0.08	9.80	0.17	0.00	0.17
7.25	0.08	0.00	0.08	9.85	0.18	0.00	0.18
7.30	0.08	0.00	0.08	9.90	0.18	0.00	0.18
7.35	0.08	0.00	0.08	9.95	0.18	0.00	0.18
7.40	0.08	0.00	0.08	10.00	0.19	0.00	0.19
7.45	0.08	0.00	0.08	10.05	0.19	0.00	0.19
7.50	0.08	0.00	0.08	10.10	0.19	0.00	0.19
7.55	0.09	0.00	0.09	10.15	0.20	0.00	0.20
7.60	0.09	0.00	0.09	10.20	0.20	0.00	0.20
7.65	0.09	0.00	0.09	10.25	0.21	0.00	0.21
7.70	0.09	0.00	0.09	10.30	0.21	0.00	0.21
7.75	0.09	0.00	0.09	10.35	0.21	0.00	0.21

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.22	0.00	0.22	13.00	0.53	0.00	0.53
10.45	0.22	0.00	0.22	13.05	0.49	0.00	0.49
10.50	0.22	0.00	0.22	13.10	0.46	0.00	0.46
10.55	0.24	0.00	0.24	13.15	0.44	0.00	0.44
10.60	0.25	0.00	0.25	13.20	0.42	0.00	0.42
10.65	0.26	0.00	0.26	13.25	0.40	0.00	0.40
10.70	0.27	0.00	0.27	13.30	0.38	0.00	0.38
10.75	0.29	0.00	0.29	13.35	0.36	0.00	0.36
10.80	0.30	0.00	0.30	13.40	0.35	0.00	0.35
10.85	0.32	0.00	0.32	13.45	0.33	0.00	0.33
10.90	0.33	0.00	0.33	13.50	0.32	0.00	0.32
10.95	0.35	0.00	0.35	13.55	0.30	0.00	0.30
11.00	0.36	0.00	0.36	13.60	0.29	0.00	0.29
11.05	0.39	0.00	0.39	13.65	0.28	0.00	0.28
11.10	0.40	0.00	0.40	13.70	0.27	0.00	0.27
11.15	0.43	0.00	0.43	13.75	0.26	0.00	0.26
11.20	0.45	0.00	0.45	13.80	0.26	0.00	0.26
11.25	0.49	0.00	0.49	13.85	0.25	0.00	0.25
11.30	0.50	0.00	0.50	13.90	0.25	0.00	0.25
11.35	0.54	0.00	0.54	13.95	0.24	0.00	0.24
11.40	0.56	0.00	0.56	14.00	0.24	0.00	0.24
11.45	0.58	0.00	0.58	14.05	0.24	0.00	0.24
11.50	0.60	0.00	0.60	14.10	0.23	0.00	0.23
11.55	0.78	0.00	0.78	14.15	0.23	0.00	0.23
11.60	0.88	0.00	0.88	14.20	0.22	0.00	0.22
11.65	0.95	0.00	0.95	14.25	0.22	0.00	0.22
11.70	0.98	0.00	0.98	14.30	0.22	0.00	0.22
11.75	1.18	0.00	1.18	14.35	0.21	0.00	0.21
11.80	1.30	0.00	1.30	14.40	0.21	0.00	0.21
11.85	1.62	0.00	1.62	14.45	0.20	0.00	0.20
11.90	1.80	0.00	1.80	14.50	0.20	0.00	0.20
11.95	2.58	0.00	2.58	14.55	0.19	0.00	0.19
12.00	3.03	0.00	3.03	14.60	0.19	0.00	0.19
12.05	4.33	0.00	4.33	14.65	0.19	0.00	0.19
12.10	**5.08**	0.00	**5.08**	14.70	0.18	0.00	0.18
12.15	**3.56**	0.00	**3.56**	14.75	0.18	0.00	0.18
12.20	2.62	0.00	2.62	14.80	0.18	0.00	0.18
12.25	2.03	0.00	2.03	14.85	0.17	0.00	0.17
12.30	1.77	0.00	1.77	14.90	0.17	0.00	0.17
12.35	1.49	0.00	1.49	14.95	0.16	0.00	0.16
12.40	1.34	0.00	1.34	15.00	0.16	0.00	0.16
12.45	1.25	0.00	1.25	15.05	0.16	0.00	0.16
12.50	1.20	0.00	1.20	15.10	0.15	0.00	0.15
12.55	1.00	0.00	1.00	15.15	0.15	0.00	0.15
12.60	0.87	0.00	0.87	15.20	0.15	0.00	0.15
12.65	0.80	0.00	0.80	15.25	0.15	0.00	0.15
12.70	0.76	0.00	0.76	15.30	0.15	0.00	0.15
12.75	0.71	0.00	0.71	15.35	0.14	0.00	0.14
12.80	0.67	0.00	0.67	15.40	0.14	0.00	0.14
12.85	0.63	0.00	0.63	15.45	0.14	0.00	0.14
12.90	0.60	0.00	0.60	15.50	0.14	0.00	0.14
12.95	0.56	0.00	0.56	15.55	0.14	0.00	0.14

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.14	0.00	0.14	18.20	0.09	0.00	0.09
15.65	0.14	0.00	0.14	18.25	0.08	0.00	0.08
15.70	0.14	0.00	0.14	18.30	0.08	0.00	0.08
15.75	0.14	0.00	0.14	18.35	0.08	0.00	0.08
15.80	0.13	0.00	0.13	18.40	0.08	0.00	0.08
15.85	0.13	0.00	0.13	18.45	0.08	0.00	0.08
15.90	0.13	0.00	0.13	18.50	0.08	0.00	0.08
15.95	0.13	0.00	0.13	18.55	0.08	0.00	0.08
16.00	0.13	0.00	0.13	18.60	0.08	0.00	0.08
16.05	0.13	0.00	0.13	18.65	0.08	0.00	0.08
16.10	0.13	0.00	0.13	18.70	0.08	0.00	0.08
16.15	0.13	0.00	0.13	18.75	0.08	0.00	0.08
16.20	0.13	0.00	0.13	18.80	0.08	0.00	0.08
16.25	0.12	0.00	0.12	18.85	0.08	0.00	0.08
16.30	0.12	0.00	0.12	18.90	0.08	0.00	0.08
16.35	0.12	0.00	0.12	18.95	0.08	0.00	0.08
16.40	0.12	0.00	0.12	19.00	0.08	0.00	0.08
16.45	0.12	0.00	0.12	19.05	0.08	0.00	0.08
16.50	0.12	0.00	0.12	19.10	0.08	0.00	0.08
16.55	0.12	0.00	0.12	19.15	0.08	0.00	0.08
16.60	0.12	0.00	0.12	19.20	0.08	0.00	0.08
16.65	0.12	0.00	0.12	19.25	0.08	0.00	0.08
16.70	0.12	0.00	0.12	19.30	0.08	0.00	0.08
16.75	0.11	0.00	0.11	19.35	0.08	0.00	0.08
16.80	0.11	0.00	0.11	19.40	0.08	0.00	0.08
16.85	0.11	0.00	0.11	19.45	0.08	0.00	0.08
16.90	0.11	0.00	0.11	19.50	0.08	0.00	0.08
16.95	0.11	0.00	0.11	19.55	0.08	0.00	0.08
17.00	0.11	0.00	0.11	19.60	0.08	0.00	0.08
17.05	0.11	0.00	0.11	19.65	0.08	0.00	0.08
17.10	0.11	0.00	0.11	19.70	0.08	0.00	0.08
17.15	0.11	0.00	0.11	19.75	0.08	0.00	0.08
17.20	0.11	0.00	0.11	19.80	0.08	0.00	0.08
17.25	0.10	0.00	0.10	19.85	0.08	0.00	0.08
17.30	0.10	0.00	0.10	19.90	0.08	0.00	0.08
17.35	0.10	0.00	0.10	19.95	0.08	0.00	0.08
17.40	0.10	0.00	0.10	20.00	0.08	0.00	0.08
17.45	0.10	0.00	0.10	20.05	0.08	0.00	0.08
17.50	0.10	0.00	0.10	20.10	0.07	0.00	0.07
17.55	0.10	0.00	0.10	20.15	0.07	0.00	0.07
17.60	0.10	0.00	0.10	20.20	0.07	0.00	0.07
17.65	0.10	0.00	0.10	20.25	0.07	0.00	0.07
17.70	0.09	0.00	0.09	20.30	0.07	0.00	0.07
17.75	0.09	0.00	0.09	20.35	0.07	0.00	0.07
17.80	0.09	0.00	0.09	20.40	0.07	0.00	0.07
17.85	0.09	0.00	0.09	20.45	0.07	0.00	0.07
17.90	0.09	0.00	0.09	20.50	0.07	0.00	0.07
17.95	0.09	0.00	0.09	20.55	0.07	0.00	0.07
18.00	0.09	0.00	0.09	20.60	0.07	0.00	0.07
18.05	0.09	0.00	0.09	20.65	0.07	0.00	0.07
18.10	0.09	0.00	0.09	20.70	0.07	0.00	0.07
18.15	0.09	0.00	0.09	20.75	0.07	0.00	0.07

Hydrograph for Link P1A: P1A (continued)

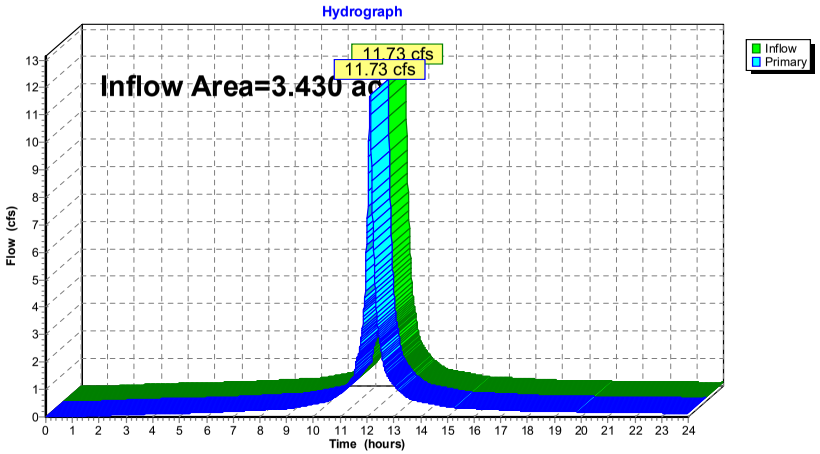
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.07	0.00	0.07	23.40	0.06	0.00	0.06
20.85	0.07	0.00	0.07	23.45	0.06	0.00	0.06
20.90	0.07	0.00	0.07	23.50	0.06	0.00	0.06
20.95	0.07	0.00	0.07	23.55	0.06	0.00	0.06
21.00	0.07	0.00	0.07	23.60	0.06	0.00	0.06
21.05	0.07	0.00	0.07	23.65	0.06	0.00	0.06
21.10	0.07	0.00	0.07	23.70	0.06	0.00	0.06
21.15	0.07	0.00	0.07	23.75	0.06	0.00	0.06
21.20	0.07	0.00	0.07	23.80	0.06	0.00	0.06
21.25	0.07	0.00	0.07	23.85	0.06	0.00	0.06
21.30	0.07	0.00	0.07	23.90	0.05	0.00	0.05
21.35	0.07	0.00	0.07	23.95	0.06	0.00	0.06
21.40	0.07	0.00	0.07	24.00	0.06	0.00	0.06
21.45	0.07	0.00	0.07				
21.50	0.07	0.00	0.07				
21.55	0.07	0.00	0.07				
21.60	0.07	0.00	0.07				
21.65	0.07	0.00	0.07				
21.70	0.07	0.00	0.07				
21.75	0.07	0.00	0.07				
21.80	0.07	0.00	0.07				
21.85	0.07	0.00	0.07				
21.90	0.07	0.00	0.07				
21.95	0.07	0.00	0.07				
22.00	0.06	0.00	0.06				
22.05	0.06	0.00	0.06				
22.10	0.06	0.00	0.06				
22.15	0.06	0.00	0.06				
22.20	0.06	0.00	0.06				
22.25	0.06	0.00	0.06				
22.30	0.06	0.00	0.06				
22.35	0.06	0.00	0.06				
22.40	0.06	0.00	0.06				
22.45	0.06	0.00	0.06				
22.50	0.06	0.00	0.06				
22.55	0.06	0.00	0.06				
22.60	0.06	0.00	0.06				
22.65	0.06	0.00	0.06				
22.70	0.06	0.00	0.06				
22.75	0.06	0.00	0.06				
22.80	0.06	0.00	0.06				
22.85	0.06	0.00	0.06				
22.90	0.06	0.00	0.06				
22.95	0.06	0.00	0.06				
23.00	0.06	0.00	0.06				
23.05	0.06	0.00	0.06				
23.10	0.06	0.00	0.06				
23.15	0.06	0.00	0.06				
23.20	0.06	0.00	0.06				
23.25	0.06	0.00	0.06				
23.30	0.06	0.00	0.06				
23.35	0.06	0.00	0.06				

Summary for Link P1B: P1B

Inflow Area = 3.430 ac, 82.22% Impervious, Inflow Depth > 3.28" for 2YR PROJECTED event
Inflow = 11.73 cfs @ 12.12 hrs, Volume= 0.937 af
Primary = 11.73 cfs @ 12.12 hrs, Volume= 0.937 af, Atten= 0%, Lag= 0.0 min
Routed to Link PPOI-1 : PPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link P1B: P1B



Hydrograph for Link P1B: P1B

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.07	0.00	0.07
0.05	0.00	0.00	0.00	2.65	0.07	0.00	0.07
0.10	0.00	0.00	0.00	2.70	0.07	0.00	0.07
0.15	0.00	0.00	0.00	2.75	0.07	0.00	0.07
0.20	0.00	0.00	0.00	2.80	0.07	0.00	0.07
0.25	0.00	0.00	0.00	2.85	0.08	0.00	0.08
0.30	0.00	0.00	0.00	2.90	0.08	0.00	0.08
0.35	0.00	0.00	0.00	2.95	0.08	0.00	0.08
0.40	0.00	0.00	0.00	3.00	0.08	0.00	0.08
0.45	0.00	0.00	0.00	3.05	0.08	0.00	0.08
0.50	0.00	0.00	0.00	3.10	0.08	0.00	0.08
0.55	0.00	0.00	0.00	3.15	0.09	0.00	0.09
0.60	0.00	0.00	0.00	3.20	0.09	0.00	0.09
0.65	0.00	0.00	0.00	3.25	0.09	0.00	0.09
0.70	0.00	0.00	0.00	3.30	0.09	0.00	0.09
0.75	0.00	0.00	0.00	3.35	0.09	0.00	0.09
0.80	0.00	0.00	0.00	3.40	0.09	0.00	0.09
0.85	0.00	0.00	0.00	3.45	0.09	0.00	0.09
0.90	0.00	0.00	0.00	3.50	0.10	0.00	0.10
0.95	0.00	0.00	0.00	3.55	0.10	0.00	0.10
1.00	0.00	0.00	0.00	3.60	0.10	0.00	0.10
1.05	0.00	0.00	0.00	3.65	0.10	0.00	0.10
1.10	0.00	0.00	0.00	3.70	0.10	0.00	0.10
1.15	0.01	0.00	0.01	3.75	0.10	0.00	0.10
1.20	0.01	0.00	0.01	3.80	0.10	0.00	0.10
1.25	0.01	0.00	0.01	3.85	0.11	0.00	0.11
1.30	0.01	0.00	0.01	3.90	0.11	0.00	0.11
1.35	0.02	0.00	0.02	3.95	0.11	0.00	0.11
1.40	0.02	0.00	0.02	4.00	0.11	0.00	0.11
1.45	0.02	0.00	0.02	4.05	0.11	0.00	0.11
1.50	0.02	0.00	0.02	4.10	0.11	0.00	0.11
1.55	0.03	0.00	0.03	4.15	0.11	0.00	0.11
1.60	0.03	0.00	0.03	4.20	0.11	0.00	0.11
1.65	0.03	0.00	0.03	4.25	0.12	0.00	0.12
1.70	0.03	0.00	0.03	4.30	0.12	0.00	0.12
1.75	0.03	0.00	0.03	4.35	0.12	0.00	0.12
1.80	0.04	0.00	0.04	4.40	0.12	0.00	0.12
1.85	0.04	0.00	0.04	4.45	0.12	0.00	0.12
1.90	0.04	0.00	0.04	4.50	0.12	0.00	0.12
1.95	0.04	0.00	0.04	4.55	0.12	0.00	0.12
2.00	0.05	0.00	0.05	4.60	0.12	0.00	0.12
2.05	0.05	0.00	0.05	4.65	0.12	0.00	0.12
2.10	0.05	0.00	0.05	4.70	0.13	0.00	0.13
2.15	0.05	0.00	0.05	4.75	0.13	0.00	0.13
2.20	0.05	0.00	0.05	4.80	0.13	0.00	0.13
2.25	0.05	0.00	0.05	4.85	0.13	0.00	0.13
2.30	0.06	0.00	0.06	4.90	0.13	0.00	0.13
2.35	0.06	0.00	0.06	4.95	0.13	0.00	0.13
2.40	0.06	0.00	0.06	5.00	0.13	0.00	0.13
2.45	0.06	0.00	0.06	5.05	0.13	0.00	0.13
2.50	0.06	0.00	0.06	5.10	0.13	0.00	0.13
2.55	0.07	0.00	0.07	5.15	0.14	0.00	0.14

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.14	0.00	0.14	7.80	0.24	0.00	0.24
5.25	0.14	0.00	0.14	7.85	0.24	0.00	0.24
5.30	0.14	0.00	0.14	7.90	0.25	0.00	0.25
5.35	0.14	0.00	0.14	7.95	0.25	0.00	0.25
5.40	0.14	0.00	0.14	8.00	0.25	0.00	0.25
5.45	0.14	0.00	0.14	8.05	0.25	0.00	0.25
5.50	0.14	0.00	0.14	8.10	0.26	0.00	0.26
5.55	0.14	0.00	0.14	8.15	0.26	0.00	0.26
5.60	0.15	0.00	0.15	8.20	0.26	0.00	0.26
5.65	0.15	0.00	0.15	8.25	0.26	0.00	0.26
5.70	0.15	0.00	0.15	8.30	0.27	0.00	0.27
5.75	0.15	0.00	0.15	8.35	0.27	0.00	0.27
5.80	0.15	0.00	0.15	8.40	0.27	0.00	0.27
5.85	0.15	0.00	0.15	8.45	0.27	0.00	0.27
5.90	0.15	0.00	0.15	8.50	0.28	0.00	0.28
5.95	0.15	0.00	0.15	8.55	0.28	0.00	0.28
6.00	0.15	0.00	0.15	8.60	0.28	0.00	0.28
6.05	0.15	0.00	0.15	8.65	0.28	0.00	0.28
6.10	0.16	0.00	0.16	8.70	0.29	0.00	0.29
6.15	0.16	0.00	0.16	8.75	0.29	0.00	0.29
6.20	0.16	0.00	0.16	8.80	0.29	0.00	0.29
6.25	0.16	0.00	0.16	8.85	0.29	0.00	0.29
6.30	0.17	0.00	0.17	8.90	0.30	0.00	0.30
6.35	0.17	0.00	0.17	8.95	0.30	0.00	0.30
6.40	0.17	0.00	0.17	9.00	0.30	0.00	0.30
6.45	0.17	0.00	0.17	9.05	0.31	0.00	0.31
6.50	0.18	0.00	0.18	9.10	0.31	0.00	0.31
6.55	0.18	0.00	0.18	9.15	0.32	0.00	0.32
6.60	0.18	0.00	0.18	9.20	0.33	0.00	0.33
6.65	0.18	0.00	0.18	9.25	0.34	0.00	0.34
6.70	0.19	0.00	0.19	9.30	0.35	0.00	0.35
6.75	0.19	0.00	0.19	9.35	0.36	0.00	0.36
6.80	0.19	0.00	0.19	9.40	0.36	0.00	0.36
6.85	0.19	0.00	0.19	9.45	0.37	0.00	0.37
6.90	0.20	0.00	0.20	9.50	0.38	0.00	0.38
6.95	0.20	0.00	0.20	9.55	0.39	0.00	0.39
7.00	0.20	0.00	0.20	9.60	0.40	0.00	0.40
7.05	0.20	0.00	0.20	9.65	0.41	0.00	0.41
7.10	0.21	0.00	0.21	9.70	0.42	0.00	0.42
7.15	0.21	0.00	0.21	9.75	0.43	0.00	0.43
7.20	0.21	0.00	0.21	9.80	0.43	0.00	0.43
7.25	0.21	0.00	0.21	9.85	0.44	0.00	0.44
7.30	0.22	0.00	0.22	9.90	0.45	0.00	0.45
7.35	0.22	0.00	0.22	9.95	0.46	0.00	0.46
7.40	0.22	0.00	0.22	10.00	0.47	0.00	0.47
7.45	0.22	0.00	0.22	10.05	0.48	0.00	0.48
7.50	0.23	0.00	0.23	10.10	0.49	0.00	0.49
7.55	0.23	0.00	0.23	10.15	0.50	0.00	0.50
7.60	0.23	0.00	0.23	10.20	0.51	0.00	0.51
7.65	0.23	0.00	0.23	10.25	0.52	0.00	0.52
7.70	0.24	0.00	0.24	10.30	0.52	0.00	0.52
7.75	0.24	0.00	0.24	10.35	0.53	0.00	0.53

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.54	0.00	0.54	13.00	1.17	0.00	1.17
10.45	0.55	0.00	0.55	13.05	1.11	0.00	1.11
10.50	0.56	0.00	0.56	13.10	1.04	0.00	1.04
10.55	0.58	0.00	0.58	13.15	0.99	0.00	0.99
10.60	0.61	0.00	0.61	13.20	0.95	0.00	0.95
10.65	0.64	0.00	0.64	13.25	0.91	0.00	0.91
10.70	0.67	0.00	0.67	13.30	0.87	0.00	0.87
10.75	0.70	0.00	0.70	13.35	0.84	0.00	0.84
10.80	0.73	0.00	0.73	13.40	0.80	0.00	0.80
10.85	0.77	0.00	0.77	13.45	0.76	0.00	0.76
10.90	0.80	0.00	0.80	13.50	0.73	0.00	0.73
10.95	0.83	0.00	0.83	13.55	0.69	0.00	0.69
11.00	0.87	0.00	0.87	13.60	0.66	0.00	0.66
11.05	0.92	0.00	0.92	13.65	0.64	0.00	0.64
11.10	0.97	0.00	0.97	13.70	0.62	0.00	0.62
11.15	1.03	0.00	1.03	13.75	0.61	0.00	0.61
11.20	1.09	0.00	1.09	13.80	0.60	0.00	0.60
11.25	1.15	0.00	1.15	13.85	0.59	0.00	0.59
11.30	1.21	0.00	1.21	13.90	0.58	0.00	0.58
11.35	1.28	0.00	1.28	13.95	0.57	0.00	0.57
11.40	1.34	0.00	1.34	14.00	0.56	0.00	0.56
11.45	1.40	0.00	1.40	14.05	0.55	0.00	0.55
11.50	1.45	0.00	1.45	14.10	0.54	0.00	0.54
11.55	1.68	0.00	1.68	14.15	0.53	0.00	0.53
11.60	2.00	0.00	2.00	14.20	0.52	0.00	0.52
11.65	2.20	0.00	2.20	14.25	0.51	0.00	0.51
11.70	2.33	0.00	2.33	14.30	0.50	0.00	0.50
11.75	2.63	0.00	2.63	14.35	0.49	0.00	0.49
11.80	3.00	0.00	3.00	14.40	0.49	0.00	0.49
11.85	3.52	0.00	3.52	14.45	0.48	0.00	0.48
11.90	4.11	0.00	4.11	14.50	0.47	0.00	0.47
11.95	5.29	0.00	5.29	14.55	0.46	0.00	0.46
12.00	6.72	0.00	6.72	14.60	0.45	0.00	0.45
12.05	8.88	0.00	8.88	14.65	0.44	0.00	0.44
12.10	**11.34**	0.00	**11.34**	14.70	0.43	0.00	0.43
12.15	**10.38**	0.00	**10.38**	14.75	0.42	0.00	0.42
12.20	7.75	0.00	7.75	14.80	0.41	0.00	0.41
12.25	6.06	0.00	6.06	14.85	0.40	0.00	0.40
12.30	4.84	0.00	4.84	14.90	0.39	0.00	0.39
12.35	3.94	0.00	3.94	14.95	0.38	0.00	0.38
12.40	3.25	0.00	3.25	15.00	0.38	0.00	0.38
12.45	2.88	0.00	2.88	15.05	0.37	0.00	0.37
12.50	2.66	0.00	2.66	15.10	0.36	0.00	0.36
12.55	2.33	0.00	2.33	15.15	0.35	0.00	0.35
12.60	1.97	0.00	1.97	15.20	0.35	0.00	0.35
12.65	1.76	0.00	1.76	15.25	0.34	0.00	0.34
12.70	1.63	0.00	1.63	15.30	0.34	0.00	0.34
12.75	1.53	0.00	1.53	15.35	0.34	0.00	0.34
12.80	1.44	0.00	1.44	15.40	0.34	0.00	0.34
12.85	1.37	0.00	1.37	15.45	0.33	0.00	0.33
12.90	1.31	0.00	1.31	15.50	0.33	0.00	0.33
12.95	1.24	0.00	1.24	15.55	0.33	0.00	0.33

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.33	0.00	0.33	18.20	0.20	0.00	0.20
15.65	0.32	0.00	0.32	18.25	0.20	0.00	0.20
15.70	0.32	0.00	0.32	18.30	0.20	0.00	0.20
15.75	0.32	0.00	0.32	18.35	0.20	0.00	0.20
15.80	0.32	0.00	0.32	18.40	0.20	0.00	0.20
15.85	0.31	0.00	0.31	18.45	0.20	0.00	0.20
15.90	0.31	0.00	0.31	18.50	0.20	0.00	0.20
15.95	0.31	0.00	0.31	18.55	0.20	0.00	0.20
16.00	0.31	0.00	0.31	18.60	0.20	0.00	0.20
16.05	0.30	0.00	0.30	18.65	0.19	0.00	0.19
16.10	0.30	0.00	0.30	18.70	0.19	0.00	0.19
16.15	0.30	0.00	0.30	18.75	0.19	0.00	0.19
16.20	0.30	0.00	0.30	18.80	0.19	0.00	0.19
16.25	0.29	0.00	0.29	18.85	0.19	0.00	0.19
16.30	0.29	0.00	0.29	18.90	0.19	0.00	0.19
16.35	0.29	0.00	0.29	18.95	0.19	0.00	0.19
16.40	0.29	0.00	0.29	19.00	0.19	0.00	0.19
16.45	0.28	0.00	0.28	19.05	0.19	0.00	0.19
16.50	0.28	0.00	0.28	19.10	0.19	0.00	0.19
16.55	0.28	0.00	0.28	19.15	0.19	0.00	0.19
16.60	0.28	0.00	0.28	19.20	0.19	0.00	0.19
16.65	0.27	0.00	0.27	19.25	0.19	0.00	0.19
16.70	0.27	0.00	0.27	19.30	0.19	0.00	0.19
16.75	0.27	0.00	0.27	19.35	0.19	0.00	0.19
16.80	0.27	0.00	0.27	19.40	0.19	0.00	0.19
16.85	0.26	0.00	0.26	19.45	0.18	0.00	0.18
16.90	0.26	0.00	0.26	19.50	0.18	0.00	0.18
16.95	0.26	0.00	0.26	19.55	0.18	0.00	0.18
17.00	0.26	0.00	0.26	19.60	0.18	0.00	0.18
17.05	0.26	0.00	0.26	19.65	0.18	0.00	0.18
17.10	0.25	0.00	0.25	19.70	0.18	0.00	0.18
17.15	0.25	0.00	0.25	19.75	0.18	0.00	0.18
17.20	0.25	0.00	0.25	19.80	0.18	0.00	0.18
17.25	0.24	0.00	0.24	19.85	0.18	0.00	0.18
17.30	0.24	0.00	0.24	19.90	0.18	0.00	0.18
17.35	0.24	0.00	0.24	19.95	0.18	0.00	0.18
17.40	0.24	0.00	0.24	20.00	0.18	0.00	0.18
17.45	0.24	0.00	0.24	20.05	0.18	0.00	0.18
17.50	0.23	0.00	0.23	20.10	0.18	0.00	0.18
17.55	0.23	0.00	0.23	20.15	0.18	0.00	0.18
17.60	0.23	0.00	0.23	20.20	0.18	0.00	0.18
17.65	0.23	0.00	0.23	20.25	0.17	0.00	0.17
17.70	0.22	0.00	0.22	20.30	0.17	0.00	0.17
17.75	0.22	0.00	0.22	20.35	0.17	0.00	0.17
17.80	0.22	0.00	0.22	20.40	0.17	0.00	0.17
17.85	0.22	0.00	0.22	20.45	0.17	0.00	0.17
17.90	0.21	0.00	0.21	20.50	0.17	0.00	0.17
17.95	0.21	0.00	0.21	20.55	0.17	0.00	0.17
18.00	0.21	0.00	0.21	20.60	0.17	0.00	0.17
18.05	0.21	0.00	0.21	20.65	0.17	0.00	0.17
18.10	0.20	0.00	0.20	20.70	0.17	0.00	0.17
18.15	0.20	0.00	0.20	20.75	0.17	0.00	0.17

Hydrograph for Link P1B: P1B (continued)

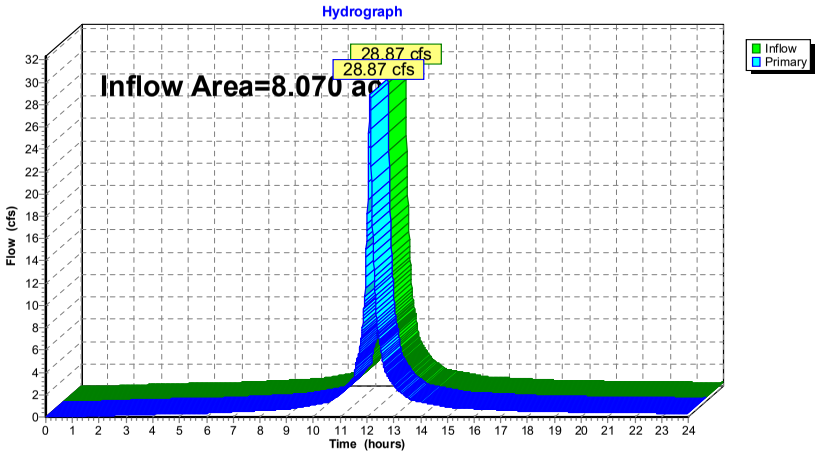
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.17	0.00	0.17	23.40	0.14	0.00	0.14
20.85	0.17	0.00	0.17	23.45	0.14	0.00	0.14
20.90	0.17	0.00	0.17	23.50	0.13	0.00	0.13
20.95	0.17	0.00	0.17	23.55	0.13	0.00	0.13
21.00	0.17	0.00	0.17	23.60	0.13	0.00	0.13
21.05	0.16	0.00	0.16	23.65	0.13	0.00	0.13
21.10	0.16	0.00	0.16	23.70	0.13	0.00	0.13
21.15	0.16	0.00	0.16	23.75	0.13	0.00	0.13
21.20	0.16	0.00	0.16	23.80	0.13	0.00	0.13
21.25	0.16	0.00	0.16	23.85	0.13	0.00	0.13
21.30	0.16	0.00	0.16	23.90	0.13	0.00	0.13
21.35	0.16	0.00	0.16	23.95	0.14	0.00	0.14
21.40	0.16	0.00	0.16	24.00	0.15	0.00	0.15
21.45	0.16	0.00	0.16				
21.50	0.16	0.00	0.16				
21.55	0.16	0.00	0.16				
21.60	0.16	0.00	0.16				
21.65	0.16	0.00	0.16				
21.70	0.16	0.00	0.16				
21.75	0.16	0.00	0.16				
21.80	0.16	0.00	0.16				
21.85	0.16	0.00	0.16				
21.90	0.15	0.00	0.15				
21.95	0.15	0.00	0.15				
22.00	0.15	0.00	0.15				
22.05	0.15	0.00	0.15				
22.10	0.15	0.00	0.15				
22.15	0.15	0.00	0.15				
22.20	0.15	0.00	0.15				
22.25	0.15	0.00	0.15				
22.30	0.15	0.00	0.15				
22.35	0.15	0.00	0.15				
22.40	0.15	0.00	0.15				
22.45	0.15	0.00	0.15				
22.50	0.15	0.00	0.15				
22.55	0.15	0.00	0.15				
22.60	0.15	0.00	0.15				
22.65	0.15	0.00	0.15				
22.70	0.14	0.00	0.14				
22.75	0.14	0.00	0.14				
22.80	0.14	0.00	0.14				
22.85	0.14	0.00	0.14				
22.90	0.14	0.00	0.14				
22.95	0.14	0.00	0.14				
23.00	0.14	0.00	0.14				
23.05	0.14	0.00	0.14				
23.10	0.14	0.00	0.14				
23.15	0.14	0.00	0.14				
23.20	0.14	0.00	0.14				
23.25	0.14	0.00	0.14				
23.30	0.14	0.00	0.14				
23.35	0.14	0.00	0.14				

Summary for Link PPOI-1: PPOI-1

Inflow Area = 8.070 ac, 81.04% Impervious, Inflow Depth > 3.35" for 2YR PROJECTED event
Inflow = 28.87 cfs @ 12.11 hrs, Volume= 2.251 af
Primary = 28.87 cfs @ 12.11 hrs, Volume= 2.251 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link PPOI-1: PPOI-1



Hydrograph for Link PPOI-1: PPOI-1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.15	0.00	0.15
0.05	0.00	0.00	0.00	2.65	0.16	0.00	0.16
0.10	0.00	0.00	0.00	2.70	0.16	0.00	0.16
0.15	0.00	0.00	0.00	2.75	0.16	0.00	0.16
0.20	0.00	0.00	0.00	2.80	0.17	0.00	0.17
0.25	0.00	0.00	0.00	2.85	0.17	0.00	0.17
0.30	0.00	0.00	0.00	2.90	0.18	0.00	0.18
0.35	0.00	0.00	0.00	2.95	0.18	0.00	0.18
0.40	0.00	0.00	0.00	3.00	0.18	0.00	0.18
0.45	0.00	0.00	0.00	3.05	0.19	0.00	0.19
0.50	0.00	0.00	0.00	3.10	0.19	0.00	0.19
0.55	0.00	0.00	0.00	3.15	0.19	0.00	0.19
0.60	0.00	0.00	0.00	3.20	0.20	0.00	0.20
0.65	0.00	0.00	0.00	3.25	0.20	0.00	0.20
0.70	0.00	0.00	0.00	3.30	0.20	0.00	0.20
0.75	0.00	0.00	0.00	3.35	0.21	0.00	0.21
0.80	0.00	0.00	0.00	3.40	0.21	0.00	0.21
0.85	0.00	0.00	0.00	3.45	0.21	0.00	0.21
0.90	0.00	0.00	0.00	3.50	0.22	0.00	0.22
0.95	0.00	0.00	0.00	3.55	0.22	0.00	0.22
1.00	0.00	0.00	0.00	3.60	0.22	0.00	0.22
1.05	0.00	0.00	0.00	3.65	0.22	0.00	0.22
1.10	0.01	0.00	0.01	3.70	0.23	0.00	0.23
1.15	0.01	0.00	0.01	3.75	0.23	0.00	0.23
1.20	0.02	0.00	0.02	3.80	0.23	0.00	0.23
1.25	0.02	0.00	0.02	3.85	0.24	0.00	0.24
1.30	0.03	0.00	0.03	3.90	0.24	0.00	0.24
1.35	0.04	0.00	0.04	3.95	0.24	0.00	0.24
1.40	0.04	0.00	0.04	4.00	0.25	0.00	0.25
1.45	0.05	0.00	0.05	4.05	0.25	0.00	0.25
1.50	0.05	0.00	0.05	4.10	0.25	0.00	0.25
1.55	0.06	0.00	0.06	4.15	0.25	0.00	0.25
1.60	0.06	0.00	0.06	4.20	0.26	0.00	0.26
1.65	0.07	0.00	0.07	4.25	0.26	0.00	0.26
1.70	0.07	0.00	0.07	4.30	0.26	0.00	0.26
1.75	0.08	0.00	0.08	4.35	0.27	0.00	0.27
1.80	0.08	0.00	0.08	4.40	0.27	0.00	0.27
1.85	0.09	0.00	0.09	4.45	0.27	0.00	0.27
1.90	0.09	0.00	0.09	4.50	0.27	0.00	0.27
1.95	0.10	0.00	0.10	4.55	0.28	0.00	0.28
2.00	0.10	0.00	0.10	4.60	0.28	0.00	0.28
2.05	0.11	0.00	0.11	4.65	0.28	0.00	0.28
2.10	0.11	0.00	0.11	4.70	0.28	0.00	0.28
2.15	0.12	0.00	0.12	4.75	0.29	0.00	0.29
2.20	0.12	0.00	0.12	4.80	0.29	0.00	0.29
2.25	0.12	0.00	0.12	4.85	0.29	0.00	0.29
2.30	0.13	0.00	0.13	4.90	0.29	0.00	0.29
2.35	0.13	0.00	0.13	4.95	0.30	0.00	0.30
2.40	0.14	0.00	0.14	5.00	0.30	0.00	0.30
2.45	0.14	0.00	0.14	5.05	0.30	0.00	0.30
2.50	0.14	0.00	0.14	5.10	0.30	0.00	0.30
2.55	0.15	0.00	0.15	5.15	0.31	0.00	0.31

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.31	0.00	0.31	7.80	0.55	0.00	0.55
5.25	0.31	0.00	0.31	7.85	0.55	0.00	0.55
5.30	0.31	0.00	0.31	7.90	0.56	0.00	0.56
5.35	0.31	0.00	0.31	7.95	0.57	0.00	0.57
5.40	0.32	0.00	0.32	8.00	0.57	0.00	0.57
5.45	0.32	0.00	0.32	8.05	0.58	0.00	0.58
5.50	0.32	0.00	0.32	8.10	0.58	0.00	0.58
5.55	0.32	0.00	0.32	8.15	0.59	0.00	0.59
5.60	0.33	0.00	0.33	8.20	0.60	0.00	0.60
5.65	0.33	0.00	0.33	8.25	0.60	0.00	0.60
5.70	0.33	0.00	0.33	8.30	0.61	0.00	0.61
5.75	0.33	0.00	0.33	8.35	0.61	0.00	0.61
5.80	0.34	0.00	0.34	8.40	0.62	0.00	0.62
5.85	0.34	0.00	0.34	8.45	0.63	0.00	0.63
5.90	0.34	0.00	0.34	8.50	0.63	0.00	0.63
5.95	0.34	0.00	0.34	8.55	0.64	0.00	0.64
6.00	0.34	0.00	0.34	8.60	0.64	0.00	0.64
6.05	0.35	0.00	0.35	8.65	0.65	0.00	0.65
6.10	0.35	0.00	0.35	8.70	0.66	0.00	0.66
6.15	0.36	0.00	0.36	8.75	0.66	0.00	0.66
6.20	0.36	0.00	0.36	8.80	0.67	0.00	0.67
6.25	0.37	0.00	0.37	8.85	0.68	0.00	0.68
6.30	0.37	0.00	0.37	8.90	0.68	0.00	0.68
6.35	0.38	0.00	0.38	8.95	0.69	0.00	0.69
6.40	0.38	0.00	0.38	9.00	0.70	0.00	0.70
6.45	0.39	0.00	0.39	9.05	0.71	0.00	0.71
6.50	0.40	0.00	0.40	9.10	0.73	0.00	0.73
6.55	0.40	0.00	0.40	9.15	0.75	0.00	0.75
6.60	0.41	0.00	0.41	9.20	0.76	0.00	0.76
6.65	0.41	0.00	0.41	9.25	0.79	0.00	0.79
6.70	0.42	0.00	0.42	9.30	0.81	0.00	0.81
6.75	0.42	0.00	0.42	9.35	0.83	0.00	0.83
6.80	0.43	0.00	0.43	9.40	0.85	0.00	0.85
6.85	0.43	0.00	0.43	9.45	0.87	0.00	0.87
6.90	0.44	0.00	0.44	9.50	0.89	0.00	0.89
6.95	0.45	0.00	0.45	9.55	0.91	0.00	0.91
7.00	0.45	0.00	0.45	9.60	0.93	0.00	0.93
7.05	0.46	0.00	0.46	9.65	0.95	0.00	0.95
7.10	0.46	0.00	0.46	9.70	0.97	0.00	0.97
7.15	0.47	0.00	0.47	9.75	0.99	0.00	0.99
7.20	0.47	0.00	0.47	9.80	1.01	0.00	1.01
7.25	0.48	0.00	0.48	9.85	1.04	0.00	1.04
7.30	0.48	0.00	0.48	9.90	1.06	0.00	1.06
7.35	0.49	0.00	0.49	9.95	1.08	0.00	1.08
7.40	0.50	0.00	0.50	10.00	1.10	0.00	1.10
7.45	0.50	0.00	0.50	10.05	1.12	0.00	1.12
7.50	0.51	0.00	0.51	10.10	1.14	0.00	1.14
7.55	0.52	0.00	0.52	10.15	1.16	0.00	1.16
7.60	0.52	0.00	0.52	10.20	1.18	0.00	1.18
7.65	0.53	0.00	0.53	10.25	1.21	0.00	1.21
7.70	0.53	0.00	0.53	10.30	1.23	0.00	1.23
7.75	0.54	0.00	0.54	10.35	1.25	0.00	1.25

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	1.27	0.00	1.27	13.00	2.87	0.00	2.87
10.45	1.29	0.00	1.29	13.05	2.69	0.00	2.69
10.50	1.32	0.00	1.32	13.10	2.54	0.00	2.54
10.55	1.38	0.00	1.38	13.15	2.41	0.00	2.41
10.60	1.44	0.00	1.44	13.20	2.31	0.00	2.31
10.65	1.51	0.00	1.51	13.25	2.21	0.00	2.21
10.70	1.58	0.00	1.58	13.30	2.13	0.00	2.13
10.75	1.67	0.00	1.67	13.35	2.03	0.00	2.03
10.80	1.74	0.00	1.74	13.40	1.95	0.00	1.95
10.85	1.83	0.00	1.83	13.45	1.85	0.00	1.85
10.90	1.90	0.00	1.90	13.50	1.77	0.00	1.77
10.95	1.99	0.00	1.99	13.55	1.68	0.00	1.68
11.00	2.06	0.00	2.06	13.60	1.60	0.00	1.60
11.05	2.19	0.00	2.19	13.65	1.55	0.00	1.55
11.10	2.31	0.00	2.31	13.70	1.51	0.00	1.51
11.15	2.47	0.00	2.47	13.75	1.48	0.00	1.48
11.20	2.61	0.00	2.61	13.80	1.45	0.00	1.45
11.25	2.77	0.00	2.77	13.85	1.43	0.00	1.43
11.30	2.91	0.00	2.91	13.90	1.41	0.00	1.41
11.35	3.07	0.00	3.07	13.95	1.38	0.00	1.38
11.40	3.21	0.00	3.21	14.00	1.36	0.00	1.36
11.45	3.36	0.00	3.36	14.05	1.33	0.00	1.33
11.50	3.47	0.00	3.47	14.10	1.31	0.00	1.31
11.55	4.16	0.00	4.16	14.15	1.29	0.00	1.29
11.60	4.89	0.00	4.89	14.20	1.27	0.00	1.27
11.65	5.34	0.00	5.34	14.25	1.25	0.00	1.25
11.70	5.63	0.00	5.63	14.30	1.22	0.00	1.22
11.75	6.48	0.00	6.48	14.35	1.20	0.00	1.20
11.80	7.34	0.00	7.34	14.40	1.18	0.00	1.18
11.85	8.78	0.00	8.78	14.45	1.16	0.00	1.16
11.90	10.12	0.00	10.12	14.50	1.14	0.00	1.14
11.95	13.45	0.00	13.45	14.55	1.11	0.00	1.11
12.00	16.74	0.00	16.74	14.60	1.09	0.00	1.09
12.05	22.67	0.00	22.67	14.65	1.07	0.00	1.07
12.10	**28.29**	0.00	**28.29**	14.70	1.04	0.00	1.04
12.15	**24.10**	0.00	**24.10**	14.75	1.02	0.00	1.02
12.20	17.86	0.00	17.86	14.80	1.00	0.00	1.00
12.25	13.84	0.00	13.84	14.85	0.98	0.00	0.98
12.30	11.24	0.00	11.24	14.90	0.96	0.00	0.96
12.35	9.20	0.00	9.20	14.95	0.93	0.00	0.93
12.40	7.75	0.00	7.75	15.00	0.91	0.00	0.91
12.45	6.96	0.00	6.96	15.05	0.89	0.00	0.89
12.50	6.50	0.00	6.50	15.10	0.87	0.00	0.87
12.55	5.61	0.00	5.61	15.15	0.85	0.00	0.85
12.60	4.77	0.00	4.77	15.20	0.84	0.00	0.84
12.65	4.29	0.00	4.29	15.25	0.83	0.00	0.83
12.70	4.00	0.00	4.00	15.30	0.83	0.00	0.83
12.75	3.75	0.00	3.75	15.35	0.82	0.00	0.82
12.80	3.56	0.00	3.56	15.40	0.82	0.00	0.82
12.85	3.37	0.00	3.37	15.45	0.81	0.00	0.81
12.90	3.21	0.00	3.21	15.50	0.80	0.00	0.80
12.95	3.02	0.00	3.02	15.55	0.80	0.00	0.80

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.79	0.00	0.79	18.20	0.49	0.00	0.49
15.65	0.78	0.00	0.78	18.25	0.48	0.00	0.48
15.70	0.78	0.00	0.78	18.30	0.48	0.00	0.48
15.75	0.77	0.00	0.77	18.35	0.48	0.00	0.48
15.80	0.77	0.00	0.77	18.40	0.48	0.00	0.48
15.85	0.76	0.00	0.76	18.45	0.48	0.00	0.48
15.90	0.76	0.00	0.76	18.50	0.48	0.00	0.48
15.95	0.75	0.00	0.75	18.55	0.47	0.00	0.47
16.00	0.74	0.00	0.74	18.60	0.47	0.00	0.47
16.05	0.74	0.00	0.74	18.65	0.47	0.00	0.47
16.10	0.73	0.00	0.73	18.70	0.47	0.00	0.47
16.15	0.73	0.00	0.73	18.75	0.47	0.00	0.47
16.20	0.72	0.00	0.72	18.80	0.47	0.00	0.47
16.25	0.71	0.00	0.71	18.85	0.47	0.00	0.47
16.30	0.71	0.00	0.71	18.90	0.46	0.00	0.46
16.35	0.70	0.00	0.70	18.95	0.46	0.00	0.46
16.40	0.70	0.00	0.70	19.00	0.46	0.00	0.46
16.45	0.69	0.00	0.69	19.05	0.46	0.00	0.46
16.50	0.68	0.00	0.68	19.10	0.46	0.00	0.46
16.55	0.68	0.00	0.68	19.15	0.46	0.00	0.46
16.60	0.67	0.00	0.67	19.20	0.46	0.00	0.46
16.65	0.67	0.00	0.67	19.25	0.45	0.00	0.45
16.70	0.66	0.00	0.66	19.30	0.45	0.00	0.45
16.75	0.65	0.00	0.65	19.35	0.45	0.00	0.45
16.80	0.65	0.00	0.65	19.40	0.45	0.00	0.45
16.85	0.64	0.00	0.64	19.45	0.45	0.00	0.45
16.90	0.64	0.00	0.64	19.50	0.45	0.00	0.45
16.95	0.63	0.00	0.63	19.55	0.44	0.00	0.44
17.00	0.62	0.00	0.62	19.60	0.44	0.00	0.44
17.05	0.62	0.00	0.62	19.65	0.44	0.00	0.44
17.10	0.61	0.00	0.61	19.70	0.44	0.00	0.44
17.15	0.61	0.00	0.61	19.75	0.44	0.00	0.44
17.20	0.60	0.00	0.60	19.80	0.44	0.00	0.44
17.25	0.59	0.00	0.59	19.85	0.44	0.00	0.44
17.30	0.59	0.00	0.59	19.90	0.43	0.00	0.43
17.35	0.58	0.00	0.58	19.95	0.43	0.00	0.43
17.40	0.58	0.00	0.58	20.00	0.43	0.00	0.43
17.45	0.57	0.00	0.57	20.05	0.43	0.00	0.43
17.50	0.56	0.00	0.56	20.10	0.43	0.00	0.43
17.55	0.56	0.00	0.56	20.15	0.43	0.00	0.43
17.60	0.55	0.00	0.55	20.20	0.43	0.00	0.43
17.65	0.55	0.00	0.55	20.25	0.42	0.00	0.42
17.70	0.54	0.00	0.54	20.30	0.42	0.00	0.42
17.75	0.53	0.00	0.53	20.35	0.42	0.00	0.42
17.80	0.53	0.00	0.53	20.40	0.42	0.00	0.42
17.85	0.52	0.00	0.52	20.45	0.42	0.00	0.42
17.90	0.52	0.00	0.52	20.50	0.42	0.00	0.42
17.95	0.51	0.00	0.51	20.55	0.42	0.00	0.42
18.00	0.50	0.00	0.50	20.60	0.42	0.00	0.42
18.05	0.50	0.00	0.50	20.65	0.41	0.00	0.41
18.10	0.49	0.00	0.49	20.70	0.41	0.00	0.41
18.15	0.49	0.00	0.49	20.75	0.41	0.00	0.41

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.41	0.00	0.41	23.40	0.33	0.00	0.33
20.85	0.41	0.00	0.41	23.45	0.33	0.00	0.33
20.90	0.40	0.00	0.40	23.50	0.33	0.00	0.33
20.95	0.40	0.00	0.40	23.55	0.32	0.00	0.32
21.00	0.40	0.00	0.40	23.60	0.32	0.00	0.32
21.05	0.40	0.00	0.40	23.65	0.32	0.00	0.32
21.10	0.40	0.00	0.40	23.70	0.32	0.00	0.32
21.15	0.40	0.00	0.40	23.75	0.32	0.00	0.32
21.20	0.40	0.00	0.40	23.80	0.32	0.00	0.32
21.25	0.39	0.00	0.39	23.85	0.32	0.00	0.32
21.30	0.39	0.00	0.39	23.90	0.31	0.00	0.31
21.35	0.39	0.00	0.39	23.95	0.34	0.00	0.34
21.40	0.39	0.00	0.39	24.00	0.36	0.00	0.36
21.45	0.39	0.00	0.39				
21.50	0.39	0.00	0.39				
21.55	0.38	0.00	0.38				
21.60	0.38	0.00	0.38				
21.65	0.38	0.00	0.38				
21.70	0.38	0.00	0.38				
21.75	0.38	0.00	0.38				
21.80	0.38	0.00	0.38				
21.85	0.38	0.00	0.38				
21.90	0.37	0.00	0.37				
21.95	0.37	0.00	0.37				
22.00	0.37	0.00	0.37				
22.05	0.37	0.00	0.37				
22.10	0.37	0.00	0.37				
22.15	0.37	0.00	0.37				
22.20	0.37	0.00	0.37				
22.25	0.37	0.00	0.37				
22.30	0.36	0.00	0.36				
22.35	0.36	0.00	0.36				
22.40	0.36	0.00	0.36				
22.45	0.36	0.00	0.36				
22.50	0.36	0.00	0.36				
22.55	0.36	0.00	0.36				
22.60	0.36	0.00	0.36				
22.65	0.35	0.00	0.35				
22.70	0.35	0.00	0.35				
22.75	0.35	0.00	0.35				
22.80	0.35	0.00	0.35				
22.85	0.35	0.00	0.35				
22.90	0.34	0.00	0.34				
22.95	0.34	0.00	0.34				
23.00	0.34	0.00	0.34				
23.05	0.34	0.00	0.34				
23.10	0.34	0.00	0.34				
23.15	0.34	0.00	0.34				
23.20	0.34	0.00	0.34				
23.25	0.33	0.00	0.33				
23.30	0.33	0.00	0.33				
23.35	0.33	0.00	0.33				

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment PDA 4 Perv: PDA4 PERV Runoff Area=0.110 ac 0.00% Impervious Runoff Depth>4.35"
Flow Length=117' Tc=1.2 min CN=84 Runoff=0.68 cfs 0.040 af

Subcatchment PDA1AIMP: PDA1A IMP Runoff Area=1.110 ac 100.00% Impervious Runoff Depth>5.93"
Flow Length=332' Tc=2.2 min CN=98 Runoff=7.66 cfs 0.548 af

Subcatchment PDA1APERV: PDA-1APERV Runoff Area=0.270 ac 0.00% Impervious Runoff Depth>4.33"
Flow Length=518' Tc=13.5 min CN=84 Runoff=0.84 cfs 0.098 af

Subcatchment PDA1B IMP: PDA1B IMP Runoff Area=2.680 ac 93.66% Impervious Runoff Depth>5.92"
Flow Length=618' Tc=4.1 min CN=98 Runoff=16.28 cfs 1.323 af

Subcatchment PDA1B PERV: PDA-1B PERV Runoff Area=0.440 ac 0.00% Impervious Runoff Depth>1.86"
Flow Length=761' Tc=5.4 min CN=58 Runoff=0.85 cfs 0.068 af

Subcatchment PDA2 IMP: PDA2 IMP Runoff Area=0.310 ac 100.00% Impervious Runoff Depth>5.93"
Flow Length=351' Tc=2.2 min CN=98 Runoff=2.14 cfs 0.153 af

Subcatchment PDA3 IMP: PDA3 IMP Runoff Area=1.110 ac 100.00% Impervious Runoff Depth>5.92"
Flow Length=804' Tc=4.7 min CN=98 Runoff=6.47 cfs 0.548 af

Subcatchment PDA3 PERV: PDA3 PERV Runoff Area=0.540 ac 0.00% Impervious Runoff Depth>4.35"
Flow Length=131' Tc=3.4 min CN=84 Runoff=2.89 cfs 0.196 af

Subcatchment PDA4 IMP: PDA4 IMP Runoff Area=1.500 ac 100.00% Impervious Runoff Depth>5.93"
Flow Length=388' Tc=2.9 min CN=98 Runoff=9.87 cfs 0.741 af

Link P1A: P1A Inflow=8.25 cfs 0.646 af
Primary=8.25 cfs 0.646 af

Link P1B: P1B Inflow=19.11 cfs 1.544 af
Primary=19.11 cfs 1.544 af

Link PPOI-1: PPOI-1 Inflow=46.89 cfs 3.714 af
Primary=46.89 cfs 3.714 af

Total Runoff Area = 8.070 ac Runoff Volume = 3.714 af Average Runoff Depth = 5.52"
18.96% Pervious = 1.530 ac 81.04% Impervious = 6.540 ac

Summary for Subcatchment PDA 4 Perv: PDA4 PERV

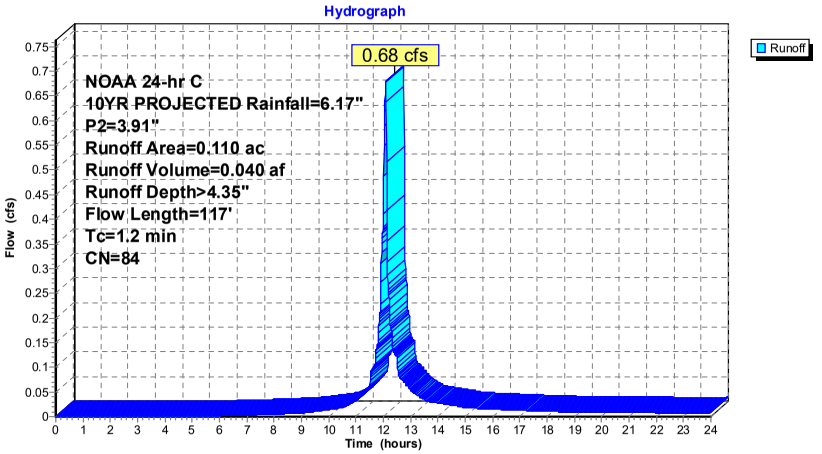
Runoff = 0.68 cfs @ 12.10 hrs, Volume= 0.040 af, Depth> 4.35"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR PROJECTED Rainfall=6.17", P2=3.91"

Area (ac)	CN	Description
* 0.110	84	>75% Grass cover, Good, HSG D
0.110		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	5	0.3300	0.32		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
0.6	64	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.3	48	0.0040	2.89	3.54	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
1.2	117	Total			

Subcatchment PDA 4 Perv: PDA4 PERV



Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.19	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.19	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.20	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.20	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.21	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.21	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.21	0.00	0.00
0.40	0.03	0.00	0.00	3.00	0.22	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.22	0.00	0.00
0.50	0.03	0.00	0.00	3.10	0.23	0.00	0.00
0.55	0.04	0.00	0.00	3.15	0.23	0.00	0.00
0.60	0.04	0.00	0.00	3.20	0.23	0.00	0.00
0.65	0.04	0.00	0.00	3.25	0.24	0.00	0.00
0.70	0.05	0.00	0.00	3.30	0.24	0.00	0.00
0.75	0.05	0.00	0.00	3.35	0.25	0.00	0.00
0.80	0.05	0.00	0.00	3.40	0.25	0.00	0.00
0.85	0.06	0.00	0.00	3.45	0.25	0.00	0.00
0.90	0.06	0.00	0.00	3.50	0.26	0.00	0.00
0.95	0.06	0.00	0.00	3.55	0.26	0.00	0.00
1.00	0.07	0.00	0.00	3.60	0.27	0.00	0.00
1.05	0.07	0.00	0.00	3.65	0.27	0.00	0.00
1.10	0.07	0.00	0.00	3.70	0.28	0.00	0.00
1.15	0.08	0.00	0.00	3.75	0.28	0.00	0.00
1.20	0.08	0.00	0.00	3.80	0.28	0.00	0.00
1.25	0.08	0.00	0.00	3.85	0.29	0.00	0.00
1.30	0.09	0.00	0.00	3.90	0.29	0.00	0.00
1.35	0.09	0.00	0.00	3.95	0.30	0.00	0.00
1.40	0.10	0.00	0.00	4.00	0.30	0.00	0.00
1.45	0.10	0.00	0.00	4.05	0.31	0.00	0.00
1.50	0.10	0.00	0.00	4.10	0.31	0.00	0.00
1.55	0.11	0.00	0.00	4.15	0.32	0.00	0.00
1.60	0.11	0.00	0.00	4.20	0.32	0.00	0.00
1.65	0.11	0.00	0.00	4.25	0.32	0.00	0.00
1.70	0.12	0.00	0.00	4.30	0.33	0.00	0.00
1.75	0.12	0.00	0.00	4.35	0.33	0.00	0.00
1.80	0.12	0.00	0.00	4.40	0.34	0.00	0.00
1.85	0.13	0.00	0.00	4.45	0.34	0.00	0.00
1.90	0.13	0.00	0.00	4.50	0.35	0.00	0.00
1.95	0.14	0.00	0.00	4.55	0.35	0.00	0.00
2.00	0.14	0.00	0.00	4.60	0.36	0.00	0.00
2.05	0.14	0.00	0.00	4.65	0.36	0.00	0.00
2.10	0.15	0.00	0.00	4.70	0.36	0.00	0.00
2.15	0.15	0.00	0.00	4.75	0.37	0.00	0.00
2.20	0.15	0.00	0.00	4.80	0.37	0.00	0.00
2.25	0.16	0.00	0.00	4.85	0.38	0.00	0.00
2.30	0.16	0.00	0.00	4.90	0.38	0.00	0.00
2.35	0.17	0.00	0.00	4.95	0.39	0.00	0.00
2.40	0.17	0.00	0.00	5.00	0.39	0.00	0.00
2.45	0.17	0.00	0.00	5.05	0.40	0.00	0.00
2.50	0.18	0.00	0.00	5.10	0.40	0.00	0.00
2.55	0.18	0.00	0.00	5.15	0.41	0.00	0.00

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.41	0.00	0.00	7.80	0.71	0.05	0.00
5.25	0.42	0.00	0.00	7.85	0.72	0.05	0.00
5.30	0.42	0.00	0.00	7.90	0.72	0.05	0.00
5.35	0.43	0.00	0.00	7.95	0.73	0.05	0.00
5.40	0.43	0.00	0.00	8.00	0.74	0.06	0.00
5.45	0.44	0.00	0.00	8.05	0.75	0.06	0.00
5.50	0.44	0.00	0.00	8.10	0.75	0.06	0.00
5.55	0.44	0.00	0.00	8.15	0.76	0.06	0.01
5.60	0.45	0.00	0.00	8.20	0.77	0.07	0.01
5.65	0.45	0.00	0.00	8.25	0.78	0.07	0.01
5.70	0.46	0.00	0.00	8.30	0.79	0.07	0.01
5.75	0.46	0.00	0.00	8.35	0.79	0.07	0.01
5.80	0.47	0.00	0.00	8.40	0.80	0.08	0.01
5.85	0.47	0.00	0.00	8.45	0.81	0.08	0.01
5.90	0.48	0.00	0.00	8.50	0.82	0.08	0.01
5.95	0.48	0.01	0.00	8.55	0.83	0.08	0.01
6.00	0.49	0.01	0.00	8.60	0.83	0.09	0.01
6.05	0.49	0.01	0.00	8.65	0.84	0.09	0.01
6.10	0.50	0.01	0.00	8.70	0.85	0.09	0.01
6.15	0.50	0.01	0.00	8.75	0.86	0.10	0.01
6.20	0.51	0.01	0.00	8.80	0.87	0.10	0.01
6.25	0.51	0.01	0.00	8.85	0.88	0.10	0.01
6.30	0.52	0.01	0.00	8.90	0.88	0.11	0.01
6.35	0.53	0.01	0.00	8.95	0.89	0.11	0.01
6.40	0.53	0.01	0.00	9.00	0.90	0.11	0.01
6.45	0.54	0.01	0.00	9.05	0.91	0.12	0.01
6.50	0.54	0.01	0.00	9.10	0.92	0.12	0.01
6.55	0.55	0.01	0.00	9.15	0.93	0.12	0.01
6.60	0.55	0.01	0.00	9.20	0.94	0.13	0.01
6.65	0.56	0.02	0.00	9.25	0.95	0.13	0.01
6.70	0.57	0.02	0.00	9.30	0.96	0.13	0.01
6.75	0.57	0.02	0.00	9.35	0.97	0.14	0.01
6.80	0.58	0.02	0.00	9.40	0.98	0.14	0.01
6.85	0.58	0.02	0.00	9.45	0.99	0.15	0.01
6.90	0.59	0.02	0.00	9.50	1.00	0.15	0.01
6.95	0.60	0.02	0.00	9.55	1.01	0.16	0.01
7.00	0.60	0.02	0.00	9.60	1.02	0.16	0.01
7.05	0.61	0.02	0.00	9.65	1.04	0.17	0.01
7.10	0.61	0.03	0.00	9.70	1.05	0.17	0.01
7.15	0.62	0.03	0.00	9.75	1.06	0.18	0.01
7.20	0.63	0.03	0.00	9.80	1.07	0.18	0.01
7.25	0.63	0.03	0.00	9.85	1.09	0.19	0.01
7.30	0.64	0.03	0.00	9.90	1.10	0.20	0.01
7.35	0.65	0.03	0.00	9.95	1.11	0.20	0.01
7.40	0.65	0.03	0.00	10.00	1.12	0.21	0.01
7.45	0.66	0.04	0.00	10.05	1.14	0.22	0.01
7.50	0.67	0.04	0.00	10.10	1.15	0.22	0.01
7.55	0.67	0.04	0.00	10.15	1.17	0.23	0.02
7.60	0.68	0.04	0.00	10.20	1.18	0.24	0.02
7.65	0.69	0.04	0.00	10.25	1.20	0.24	0.02
7.70	0.70	0.04	0.00	10.30	1.21	0.25	0.02
7.75	0.70	0.05	0.00	10.35	1.23	0.26	0.02

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.24	0.27	0.02	13.00	4.69	2.99	0.06
10.45	1.26	0.28	0.02	13.05	4.71	3.01	0.05
10.50	1.27	0.28	0.02	13.10	4.74	3.03	0.05
10.55	1.29	0.29	0.02	13.15	4.76	3.05	0.05
10.60	1.31	0.30	0.02	13.20	4.78	3.07	0.05
10.65	1.33	0.31	0.02	13.25	4.80	3.09	0.04
10.70	1.34	0.32	0.02	13.30	4.83	3.11	0.04
10.75	1.37	0.34	0.03	13.35	4.84	3.13	0.04
10.80	1.39	0.35	0.03	13.40	4.86	3.15	0.04
10.85	1.41	0.36	0.03	13.45	4.88	3.16	0.04
10.90	1.43	0.37	0.03	13.50	4.90	3.18	0.04
10.95	1.46	0.39	0.03	13.55	4.91	3.19	0.03
11.00	1.48	0.40	0.03	13.60	4.93	3.21	0.03
11.05	1.51	0.42	0.04	13.65	4.94	3.22	0.03
11.10	1.54	0.44	0.04	13.70	4.96	3.23	0.03
11.15	1.57	0.46	0.04	13.75	4.97	3.25	0.03
11.20	1.60	0.47	0.04	13.80	4.99	3.26	0.03
11.25	1.63	0.50	0.05	13.85	5.00	3.27	0.03
11.30	1.67	0.52	0.05	13.90	5.02	3.29	0.03
11.35	1.70	0.54	0.05	13.95	5.03	3.30	0.03
11.40	1.74	0.57	0.05	14.00	5.05	3.31	0.03
11.45	1.78	0.59	0.06	14.05	5.06	3.32	0.03
11.50	1.82	0.62	0.06	14.10	5.07	3.34	0.03
11.55	1.89	0.66	0.09	14.15	5.08	3.35	0.03
11.60	1.95	0.71	0.10	14.20	5.10	3.36	0.03
11.65	2.01	0.75	0.10	14.25	5.11	3.37	0.03
11.70	2.08	0.80	0.10	14.30	5.12	3.38	0.03
11.75	2.17	0.87	0.14	14.35	5.13	3.39	0.02
11.80	2.26	0.93	0.15	14.40	5.15	3.40	0.02
11.85	2.38	1.03	0.20	14.45	5.16	3.41	0.02
11.90	2.51	1.12	0.21	14.50	5.17	3.42	0.02
11.95	2.72	1.29	0.35	14.55	5.18	3.44	0.02
12.00	2.94	1.47	0.38	14.60	5.19	3.45	0.02
12.05	3.30	1.77	0.62	14.65	5.20	3.45	0.02
12.10	3.66	2.07	**0.68**	14.70	5.21	3.46	0.02
12.15	3.79	2.18	0.31	14.75	5.22	3.47	0.02
12.20	3.91	2.29	0.25	14.80	5.23	3.48	0.02
12.25	4.00	2.37	0.19	14.85	5.24	3.49	0.02
12.30	4.09	2.45	0.18	14.90	5.25	3.50	0.02
12.35	4.16	2.51	0.14	14.95	5.26	3.51	0.02
12.40	4.22	2.57	0.13	15.00	5.27	3.52	0.02
12.45	4.28	2.62	0.12	15.05	5.28	3.53	0.02
12.50	4.35	2.68	0.12	15.10	5.29	3.53	0.02
12.55	4.39	2.72	0.09	15.15	5.29	3.54	0.02
12.60	4.43	2.75	0.08	15.20	5.30	3.55	0.02
12.65	4.47	2.79	0.08	15.25	5.31	3.56	0.02
12.70	4.50	2.82	0.08	15.30	5.32	3.56	0.02
12.75	4.54	2.85	0.07	15.35	5.33	3.57	0.02
12.80	4.57	2.88	0.07	15.40	5.34	3.58	0.02
12.85	4.60	2.91	0.06	15.45	5.34	3.59	0.02
12.90	4.63	2.94	0.06	15.50	5.35	3.59	0.02
12.95	4.66	2.96	0.06	15.55	5.36	3.60	0.02

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.37	3.61	0.02	18.20	5.70	3.92	0.01
15.65	5.38	3.62	0.02	18.25	5.71	3.92	0.01
15.70	5.38	3.62	0.02	18.30	5.71	3.93	0.01
15.75	5.39	3.63	0.02	18.35	5.72	3.93	0.01
15.80	5.40	3.64	0.02	18.40	5.72	3.94	0.01
15.85	5.41	3.65	0.02	18.45	5.73	3.94	0.01
15.90	5.42	3.65	0.02	18.50	5.73	3.94	0.01
15.95	5.42	3.66	0.02	18.55	5.73	3.95	0.01
16.00	5.43	3.67	0.02	18.60	5.74	3.95	0.01
16.05	5.44	3.67	0.02	18.65	5.74	3.96	0.01
16.10	5.45	3.68	0.02	18.70	5.75	3.96	0.01
16.15	5.45	3.69	0.02	18.75	5.75	3.97	0.01
16.20	5.46	3.69	0.02	18.80	5.76	3.97	0.01
16.25	5.47	3.70	0.01	18.85	5.76	3.98	0.01
16.30	5.47	3.71	0.01	18.90	5.77	3.98	0.01
16.35	5.48	3.71	0.01	18.95	5.77	3.98	0.01
16.40	5.49	3.72	0.01	19.00	5.78	3.99	0.01
16.45	5.50	3.73	0.01	19.05	5.78	3.99	0.01
16.50	5.50	3.73	0.01	19.10	5.79	4.00	0.01
16.55	5.51	3.74	0.01	19.15	5.79	4.00	0.01
16.60	5.52	3.75	0.01	19.20	5.80	4.01	0.01
16.65	5.52	3.75	0.01	19.25	5.80	4.01	0.01
16.70	5.53	3.76	0.01	19.30	5.81	4.01	0.01
16.75	5.54	3.76	0.01	19.35	5.81	4.02	0.01
16.80	5.54	3.77	0.01	19.40	5.81	4.02	0.01
16.85	5.55	3.78	0.01	19.45	5.82	4.03	0.01
16.90	5.56	3.78	0.01	19.50	5.82	4.03	0.01
16.95	5.56	3.79	0.01	19.55	5.83	4.04	0.01
17.00	5.57	3.79	0.01	19.60	5.83	4.04	0.01
17.05	5.57	3.80	0.01	19.65	5.84	4.04	0.01
17.10	5.58	3.81	0.01	19.70	5.84	4.05	0.01
17.15	5.59	3.81	0.01	19.75	5.85	4.05	0.01
17.20	5.59	3.82	0.01	19.80	5.85	4.06	0.01
17.25	5.60	3.82	0.01	19.85	5.85	4.06	0.01
17.30	5.60	3.83	0.01	19.90	5.86	4.06	0.01
17.35	5.61	3.83	0.01	19.95	5.86	4.07	0.01
17.40	5.62	3.84	0.01	20.00	5.87	4.07	0.01
17.45	5.62	3.84	0.01	20.05	5.87	4.08	0.01
17.50	5.63	3.85	0.01	20.10	5.88	4.08	0.01
17.55	5.63	3.85	0.01	20.15	5.88	4.09	0.01
17.60	5.64	3.86	0.01	20.20	5.89	4.09	0.01
17.65	5.64	3.86	0.01	20.25	5.89	4.09	0.01
17.70	5.65	3.87	0.01	20.30	5.89	4.10	0.01
17.75	5.66	3.87	0.01	20.35	5.90	4.10	0.01
17.80	5.66	3.88	0.01	20.40	5.90	4.11	0.01
17.85	5.67	3.88	0.01	20.45	5.91	4.11	0.01
17.90	5.67	3.89	0.01	20.50	5.91	4.11	0.01
17.95	5.68	3.89	0.01	20.55	5.92	4.12	0.01
18.00	5.68	3.90	0.01	20.60	5.92	4.12	0.01
18.05	5.69	3.90	0.01	20.65	5.92	4.12	0.01
18.10	5.69	3.91	0.01	20.70	5.93	4.13	0.01
18.15	5.70	3.91	0.01	20.75	5.93	4.13	0.01

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.94	4.14	0.01	23.40	6.13	4.32	0.01
20.85	5.94	4.14	0.01	23.45	6.13	4.32	0.01
20.90	5.94	4.14	0.01	23.50	6.14	4.32	0.01
20.95	5.95	4.15	0.01	23.55	6.14	4.33	0.01
21.00	5.95	4.15	0.01	23.60	6.14	4.33	0.01
21.05	5.96	4.16	0.01	23.65	6.15	4.33	0.01
21.10	5.96	4.16	0.01	23.70	6.15	4.34	0.01
21.15	5.96	4.16	0.01	23.75	6.15	4.34	0.01
21.20	5.97	4.17	0.01	23.80	6.16	4.34	0.01
21.25	5.97	4.17	0.01	23.85	6.16	4.35	0.01
21.30	5.98	4.17	0.01	23.90	6.16	4.35	0.01
21.35	5.98	4.18	0.01	23.95	6.17	4.35	0.01
21.40	5.98	4.18	0.01	24.00	**6.17**	**4.36**	0.01
21.45	5.99	4.19	0.01				
21.50	5.99	4.19	0.01				
21.55	6.00	4.19	0.01				
21.60	6.00	4.20	0.01				
21.65	6.00	4.20	0.01				
21.70	6.01	4.20	0.01				
21.75	6.01	4.21	0.01				
21.80	6.02	4.21	0.01				
21.85	6.02	4.21	0.01				
21.90	6.02	4.22	0.01				
21.95	6.03	4.22	0.01				
22.00	6.03	4.23	0.01				
22.05	6.03	4.23	0.01				
22.10	6.04	4.23	0.01				
22.15	6.04	4.24	0.01				
22.20	6.05	4.24	0.01				
22.25	6.05	4.24	0.01				
22.30	6.05	4.25	0.01				
22.35	6.06	4.25	0.01				
22.40	6.06	4.25	0.01				
22.45	6.06	4.26	0.01				
22.50	6.07	4.26	0.01				
22.55	6.07	4.26	0.01				
22.60	6.07	4.27	0.01				
22.65	6.08	4.27	0.01				
22.70	6.08	4.27	0.01				
22.75	6.09	4.28	0.01				
22.80	6.09	4.28	0.01				
22.85	6.09	4.28	0.01				
22.90	6.10	4.29	0.01				
22.95	6.10	4.29	0.01				
23.00	6.10	4.29	0.01				
23.05	6.11	4.30	0.01				
23.10	6.11	4.30	0.01				
23.15	6.11	4.30	0.01				
23.20	6.12	4.31	0.01				
23.25	6.12	4.31	0.01				
23.30	6.12	4.31	0.01				
23.35	6.13	4.31	0.01				

Summary for Subcatchment PDA1A IMP: PDA1A IMP

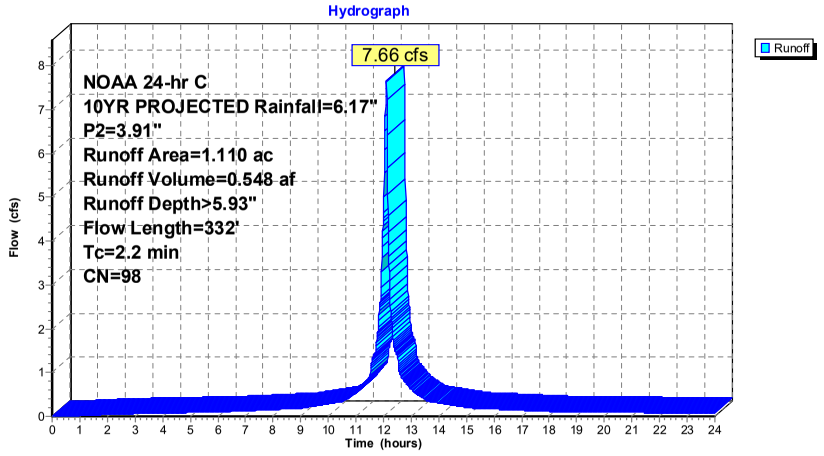
Runoff = 7.66 cfs @ 12.11 hrs, Volume= 0.548 af, Depth> 5.93"
Routed to Link P1A : P1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR PROJECTED Rainfall=6.17", P2=3.91"

	Area (ac)	CN	Description
*	0.340	98	Impervious vehicular
	0.770	98	Roofs, HSG D
	1.110	98	Weighted Average
	1.110		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0160	1.39		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.4	47	0.0100	2.03		**Shallow Concentrated Flow, paved** Paved Kv= 20.3 fps
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
2.2	332	Total			

Subcatchment PDA1A IMP: PDA1A IMP



Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.06	0.06
0.05	0.00	0.00	0.00	2.65	0.19	0.06	0.06
0.10	0.01	0.00	0.00	2.70	0.19	0.07	0.06
0.15	0.01	0.00	0.00	2.75	0.20	0.07	0.06
0.20	0.01	0.00	0.00	2.80	0.20	0.07	0.06
0.25	0.02	0.00	0.00	2.85	0.21	0.07	0.06
0.30	0.02	0.00	0.00	2.90	0.21	0.08	0.06
0.35	0.02	0.00	0.00	2.95	0.21	0.08	0.06
0.40	0.03	0.00	0.00	3.00	0.22	0.08	0.06
0.45	0.03	0.00	0.00	3.05	0.22	0.09	0.06
0.50	0.03	0.00	0.00	3.10	0.23	0.09	0.07
0.55	0.04	0.00	0.00	3.15	0.23	0.09	0.07
0.60	0.04	0.00	0.00	3.20	0.23	0.09	0.07
0.65	0.04	0.00	0.00	3.25	0.24	0.10	0.07
0.70	0.05	0.00	0.00	3.30	0.24	0.10	0.07
0.75	0.05	0.00	0.00	3.35	0.25	0.10	0.07
0.80	0.05	0.00	0.01	3.40	0.25	0.11	0.07
0.85	0.06	0.00	0.01	3.45	0.25	0.11	0.07
0.90	0.06	0.00	0.01	3.50	0.26	0.11	0.07
0.95	0.06	0.00	0.01	3.55	0.26	0.12	0.07
1.00	0.07	0.00	0.01	3.60	0.27	0.12	0.07
1.05	0.07	0.00	0.02	3.65	0.27	0.12	0.07
1.10	0.07	0.00	0.02	3.70	0.28	0.13	0.07
1.15	0.08	0.01	0.02	3.75	0.28	0.13	0.07
1.20	0.08	0.01	0.02	3.80	0.28	0.13	0.08
1.25	0.08	0.01	0.02	3.85	0.29	0.14	0.08
1.30	0.09	0.01	0.03	3.90	0.29	0.14	0.08
1.35	0.09	0.01	0.03	3.95	0.30	0.14	0.08
1.40	0.10	0.01	0.03	4.00	0.30	0.15	0.08
1.45	0.10	0.01	0.03	4.05	0.31	0.15	0.08
1.50	0.10	0.01	0.03	4.10	0.31	0.15	0.08
1.55	0.11	0.02	0.03	4.15	0.32	0.16	0.08
1.60	0.11	0.02	0.03	4.20	0.32	0.16	0.08
1.65	0.11	0.02	0.04	4.25	0.32	0.16	0.08
1.70	0.12	0.02	0.04	4.30	0.33	0.17	0.08
1.75	0.12	0.02	0.04	4.35	0.33	0.17	0.08
1.80	0.12	0.02	0.04	4.40	0.34	0.18	0.08
1.85	0.13	0.03	0.04	4.45	0.34	0.18	0.08
1.90	0.13	0.03	0.04	4.50	0.35	0.18	0.08
1.95	0.14	0.03	0.04	4.55	0.35	0.19	0.08
2.00	0.14	0.03	0.04	4.60	0.36	0.19	0.09
2.05	0.14	0.03	0.05	4.65	0.36	0.19	0.09
2.10	0.15	0.04	0.05	4.70	0.36	0.20	0.09
2.15	0.15	0.04	0.05	4.75	0.37	0.20	0.09
2.20	0.15	0.04	0.05	4.80	0.37	0.21	0.09
2.25	0.16	0.04	0.05	4.85	0.38	0.21	0.09
2.30	0.16	0.05	0.05	4.90	0.38	0.21	0.09
2.35	0.17	0.05	0.05	4.95	0.39	0.22	0.09
2.40	0.17	0.05	0.05	5.00	0.39	0.22	0.09
2.45	0.17	0.05	0.05	5.05	0.40	0.23	0.09
2.50	0.18	0.06	0.05	5.10	0.40	0.23	0.09
2.55	0.18	0.06	0.06	5.15	0.41	0.23	0.09

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.41	0.24	0.09	7.80	0.71	0.51	0.15
5.25	0.42	0.24	0.09	7.85	0.72	0.52	0.15
5.30	0.42	0.25	0.09	7.90	0.72	0.53	0.15
5.35	0.43	0.25	0.09	7.95	0.73	0.53	0.16
5.40	0.43	0.26	0.09	8.00	0.74	0.54	0.16
5.45	0.44	0.26	0.09	8.05	0.75	0.55	0.16
5.50	0.44	0.26	0.10	8.10	0.75	0.55	0.16
5.55	0.44	0.27	0.10	8.15	0.76	0.56	0.16
5.60	0.45	0.27	0.10	8.20	0.77	0.57	0.16
5.65	0.45	0.28	0.10	8.25	0.78	0.58	0.16
5.70	0.46	0.28	0.10	8.30	0.79	0.58	0.17
5.75	0.46	0.29	0.10	8.35	0.79	0.59	0.17
5.80	0.47	0.29	0.10	8.40	0.80	0.60	0.17
5.85	0.47	0.29	0.10	8.45	0.81	0.61	0.17
5.90	0.48	0.30	0.10	8.50	0.82	0.61	0.17
5.95	0.48	0.30	0.10	8.55	0.83	0.62	0.17
6.00	0.49	0.31	0.10	8.60	0.83	0.63	0.17
6.05	0.49	0.31	0.10	8.65	0.84	0.64	0.18
6.10	0.50	0.32	0.10	8.70	0.85	0.65	0.18
6.15	0.50	0.32	0.10	8.75	0.86	0.65	0.18
6.20	0.51	0.33	0.11	8.80	0.87	0.66	0.18
6.25	0.51	0.33	0.11	8.85	0.88	0.67	0.18
6.30	0.52	0.34	0.11	8.90	0.88	0.68	0.18
6.35	0.53	0.34	0.11	8.95	0.89	0.69	0.19
6.40	0.53	0.35	0.11	9.00	0.90	0.70	0.19
6.45	0.54	0.35	0.11	9.05	0.91	0.70	0.19
6.50	0.54	0.36	0.11	9.10	0.92	0.71	0.20
6.55	0.55	0.36	0.12	9.15	0.93	0.72	0.20
6.60	0.55	0.37	0.12	9.20	0.94	0.73	0.21
6.65	0.56	0.37	0.12	9.25	0.95	0.74	0.21
6.70	0.57	0.38	0.12	9.30	0.96	0.75	0.22
6.75	0.57	0.38	0.12	9.35	0.97	0.76	0.22
6.80	0.58	0.39	0.12	9.40	0.98	0.77	0.23
6.85	0.58	0.39	0.12	9.45	0.99	0.78	0.23
6.90	0.59	0.40	0.13	9.50	1.00	0.79	0.24
6.95	0.60	0.41	0.13	9.55	1.01	0.80	0.24
7.00	0.60	0.41	0.13	9.60	1.02	0.81	0.25
7.05	0.61	0.42	0.13	9.65	1.04	0.83	0.25
7.10	0.61	0.42	0.13	9.70	1.05	0.84	0.26
7.15	0.62	0.43	0.13	9.75	1.06	0.85	0.26
7.20	0.63	0.44	0.13	9.80	1.07	0.86	0.27
7.25	0.63	0.44	0.14	9.85	1.09	0.87	0.27
7.30	0.64	0.45	0.14	9.90	1.10	0.89	0.28
7.35	0.65	0.45	0.14	9.95	1.11	0.90	0.28
7.40	0.65	0.46	0.14	10.00	1.12	0.91	0.29
7.45	0.66	0.47	0.14	10.05	1.14	0.93	0.29
7.50	0.67	0.47	0.14	10.10	1.15	0.94	0.30
7.55	0.67	0.48	0.14	10.15	1.17	0.95	0.31
7.60	0.68	0.49	0.15	10.20	1.18	0.97	0.31
7.65	0.69	0.49	0.15	10.25	1.20	0.98	0.32
7.70	0.70	0.50	0.15	10.30	1.21	1.00	0.32
7.75	0.70	0.51	0.15	10.35	1.23	1.01	0.33

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.24	1.03	0.33	13.00	4.69	4.45	0.63
10.45	1.26	1.04	0.34	13.05	4.71	4.48	0.58
10.50	1.27	1.06	0.34	13.10	4.74	4.50	0.56
10.55	1.29	1.07	0.36	13.15	4.76	4.52	0.53
10.60	1.31	1.09	0.38	13.20	4.78	4.55	0.51
10.65	1.33	1.11	0.40	13.25	4.80	4.57	0.49
10.70	1.34	1.13	0.41	13.30	4.83	4.59	0.47
10.75	1.37	1.15	0.44	13.35	4.84	4.61	0.45
10.80	1.39	1.17	0.45	13.40	4.86	4.63	0.43
10.85	1.41	1.19	0.48	13.45	4.88	4.64	0.41
10.90	1.43	1.21	0.49	13.50	4.90	4.66	0.39
10.95	1.46	1.24	0.52	13.55	4.91	4.68	0.37
11.00	1.48	1.26	0.53	13.60	4.93	4.69	0.35
11.05	1.51	1.29	0.58	13.65	4.94	4.71	0.34
11.10	1.54	1.32	0.60	13.70	4.96	4.72	0.34
11.15	1.57	1.35	0.65	13.75	4.97	4.74	0.33
11.20	1.60	1.38	0.68	13.80	4.99	4.75	0.33
11.25	1.63	1.41	0.72	13.85	5.00	4.77	0.32
11.30	1.67	1.45	0.75	13.90	5.02	4.78	0.32
11.35	1.70	1.48	0.80	13.95	5.03	4.79	0.31
11.40	1.74	1.52	0.82	14.00	5.05	4.81	0.31
11.45	1.78	1.56	0.86	14.05	5.06	4.82	0.30
11.50	1.82	1.60	0.88	14.10	5.07	4.83	0.30
11.55	1.89	1.66	1.16	14.15	5.08	4.85	0.29
11.60	1.95	1.72	1.32	14.20	5.10	4.86	0.29
11.65	2.01	1.79	1.41	14.25	5.11	4.87	0.28
11.70	2.08	1.85	1.44	14.30	5.12	4.88	0.28
11.75	2.17	1.94	1.75	14.35	5.13	4.90	0.27
11.80	2.26	2.03	1.93	14.40	5.15	4.91	0.27
11.85	2.38	2.16	2.41	14.45	5.16	4.92	0.26
11.90	2.51	2.28	2.68	14.50	5.17	4.93	0.26
11.95	2.72	2.49	3.87	14.55	5.18	4.94	0.25
12.00	2.94	2.71	4.54	14.60	5.19	4.95	0.25
12.05	3.30	3.07	6.52	14.65	5.20	4.96	0.24
12.10	3.66	3.43	**7.60**	14.70	5.21	4.97	0.24
12.15	3.79	3.55	**5.06**	14.75	5.22	4.98	0.23
12.20	3.91	3.68	3.46	14.80	5.23	4.99	0.23
12.25	4.00	3.77	2.51	14.85	5.24	5.00	0.22
12.30	4.09	3.86	2.14	14.90	5.25	5.01	0.22
12.35	4.16	3.92	1.73	14.95	5.26	5.02	0.21
12.40	4.22	3.99	1.54	15.00	5.27	5.03	0.20
12.45	4.28	4.05	1.44	15.05	5.28	5.04	0.20
12.50	4.35	4.11	1.41	15.10	5.29	5.05	0.20
12.55	4.39	4.15	1.12	15.15	5.29	5.06	0.19
12.60	4.43	4.19	0.96	15.20	5.30	5.07	0.19
12.65	4.47	4.23	0.88	15.25	5.31	5.07	0.19
12.70	4.50	4.27	0.85	15.30	5.32	5.08	0.19
12.75	4.54	4.30	0.80	15.35	5.33	5.09	0.19
12.80	4.57	4.34	0.78	15.40	5.34	5.10	0.19
12.85	4.60	4.37	0.73	15.45	5.34	5.11	0.18
12.90	4.63	4.40	0.70	15.50	5.35	5.12	0.18
12.95	4.66	4.43	0.66	15.55	5.36	5.12	0.18

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.37	5.13	0.18	18.20	5.70	5.46	0.11
15.65	5.38	5.14	0.18	18.25	5.71	5.47	0.11
15.70	5.38	5.15	0.18	18.30	5.71	5.47	0.11
15.75	5.39	5.16	0.18	18.35	5.72	5.48	0.11
15.80	5.40	5.16	0.17	18.40	5.72	5.48	0.11
15.85	5.41	5.17	0.17	18.45	5.73	5.49	0.11
15.90	5.42	5.18	0.17	18.50	5.73	5.49	0.11
15.95	5.42	5.19	0.17	18.55	5.73	5.50	0.11
16.00	5.43	5.19	0.17	18.60	5.74	5.50	0.11
16.05	5.44	5.20	0.17	18.65	5.74	5.51	0.11
16.10	5.45	5.21	0.17	18.70	5.75	5.51	0.11
16.15	5.45	5.22	0.16	18.75	5.75	5.52	0.11
16.20	5.46	5.22	0.16	18.80	5.76	5.52	0.11
16.25	5.47	5.23	0.16	18.85	5.76	5.53	0.11
16.30	5.47	5.24	0.16	18.90	5.77	5.53	0.11
16.35	5.48	5.24	0.16	18.95	5.77	5.54	0.11
16.40	5.49	5.25	0.16	19.00	5.78	5.54	0.10
16.45	5.50	5.26	0.16	19.05	5.78	5.54	0.10
16.50	5.50	5.26	0.15	19.10	5.79	5.55	0.10
16.55	5.51	5.27	0.15	19.15	5.79	5.55	0.10
16.60	5.52	5.28	0.15	19.20	5.80	5.56	0.10
16.65	5.52	5.29	0.15	19.25	5.80	5.56	0.10
16.70	5.53	5.29	0.15	19.30	5.81	5.57	0.10
16.75	5.54	5.30	0.15	19.35	5.81	5.57	0.10
16.80	5.54	5.31	0.15	19.40	5.81	5.58	0.10
16.85	5.55	5.31	0.15	19.45	5.82	5.58	0.10
16.90	5.56	5.32	0.14	19.50	5.82	5.59	0.10
16.95	5.56	5.32	0.14	19.55	5.83	5.59	0.10
17.00	5.57	5.33	0.14	19.60	5.83	5.59	0.10
17.05	5.57	5.34	0.14	19.65	5.84	5.60	0.10
17.10	5.58	5.34	0.14	19.70	5.84	5.60	0.10
17.15	5.59	5.35	0.14	19.75	5.85	5.61	0.10
17.20	5.59	5.36	0.14	19.80	5.85	5.61	0.10
17.25	5.60	5.36	0.13	19.85	5.85	5.62	0.10
17.30	5.60	5.37	0.13	19.90	5.86	5.62	0.10
17.35	5.61	5.37	0.13	19.95	5.86	5.63	0.10
17.40	5.62	5.38	0.13	20.00	5.87	5.63	0.10
17.45	5.62	5.38	0.13	20.05	5.87	5.63	0.10
17.50	5.63	5.39	0.13	20.10	5.88	5.64	0.10
17.55	5.63	5.40	0.13	20.15	5.88	5.64	0.10
17.60	5.64	5.40	0.13	20.20	5.89	5.65	0.10
17.65	5.64	5.41	0.12	20.25	5.89	5.65	0.10
17.70	5.65	5.41	0.12	20.30	5.89	5.66	0.10
17.75	5.66	5.42	0.12	20.35	5.90	5.66	0.10
17.80	5.66	5.42	0.12	20.40	5.90	5.66	0.10
17.85	5.67	5.43	0.12	20.45	5.91	5.67	0.09
17.90	5.67	5.43	0.12	20.50	5.91	5.67	0.09
17.95	5.68	5.44	0.12	20.55	5.92	5.68	0.09
18.00	5.68	5.44	0.11	20.60	5.92	5.68	0.09
18.05	5.69	5.45	0.11	20.65	5.92	5.69	0.09
18.10	5.69	5.45	0.11	20.70	5.93	5.69	0.09
18.15	5.70	5.46	0.11	20.75	5.93	5.69	0.09

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.94	5.70	0.09	23.40	6.13	5.89	0.08
20.85	5.94	5.70	0.09	23.45	6.13	5.89	0.07
20.90	5.94	5.71	0.09	23.50	6.14	5.90	0.07
20.95	5.95	5.71	0.09	23.55	6.14	5.90	0.07
21.00	5.95	5.71	0.09	23.60	6.14	5.90	0.07
21.05	5.96	5.72	0.09	23.65	6.15	5.91	0.07
21.10	5.96	5.72	0.09	23.70	6.15	5.91	0.07
21.15	5.96	5.73	0.09	23.75	6.15	5.91	0.07
21.20	5.97	5.73	0.09	23.80	6.16	5.92	0.07
21.25	5.97	5.73	0.09	23.85	6.16	5.92	0.07
21.30	5.98	5.74	0.09	23.90	6.16	5.92	0.07
21.35	5.98	5.74	0.09	23.95	6.17	5.93	0.08
21.40	5.98	5.75	0.09	24.00	**6.17**	**5.93**	0.09
21.45	5.99	5.75	0.09				
21.50	5.99	5.75	0.09				
21.55	6.00	5.76	0.09				
21.60	6.00	5.76	0.09				
21.65	6.00	5.77	0.09				
21.70	6.01	5.77	0.09				
21.75	6.01	5.77	0.09				
21.80	6.02	5.78	0.09				
21.85	6.02	5.78	0.09				
21.90	6.02	5.78	0.09				
21.95	6.03	5.79	0.08				
22.00	6.03	5.79	0.08				
22.05	6.03	5.80	0.08				
22.10	6.04	5.80	0.08				
22.15	6.04	5.80	0.08				
22.20	6.05	5.81	0.08				
22.25	6.05	5.81	0.08				
22.30	6.05	5.81	0.08				
22.35	6.06	5.82	0.08				
22.40	6.06	5.82	0.08				
22.45	6.06	5.83	0.08				
22.50	6.07	5.83	0.08				
22.55	6.07	5.83	0.08				
22.60	6.07	5.84	0.08				
22.65	6.08	5.84	0.08				
22.70	6.08	5.84	0.08				
22.75	6.09	5.85	0.08				
22.80	6.09	5.85	0.08				
22.85	6.09	5.85	0.08				
22.90	6.10	5.86	0.08				
22.95	6.10	5.86	0.08				
23.00	6.10	5.86	0.08				
23.05	6.11	5.87	0.08				
23.10	6.11	5.87	0.08				
23.15	6.11	5.87	0.08				
23.20	6.12	5.88	0.08				
23.25	6.12	5.88	0.08				
23.30	6.12	5.88	0.08				
23.35	6.13	5.89	0.08				

Summary for Subcatchment PDA1A PERV: PDA-1A PERV

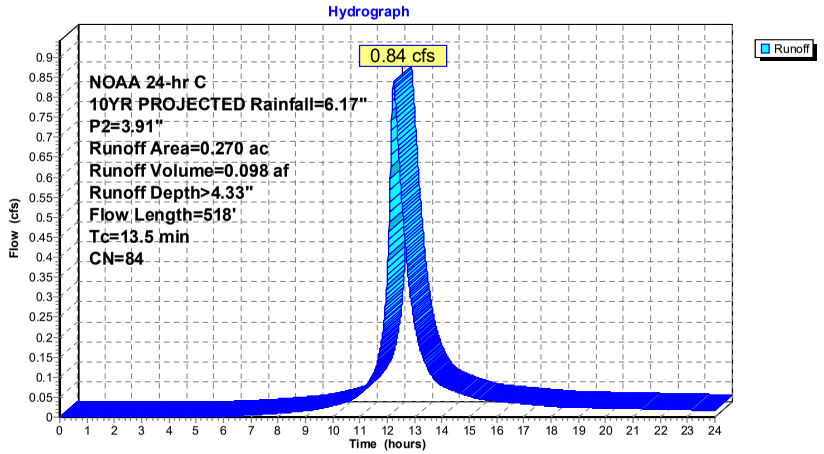
Runoff = 0.84 cfs @ 12.24 hrs, Volume= 0.098 af, Depth> 4.33"
Routed to Link P1A : P1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR PROJECTED Rainfall=6.17", P2=3.91"

	Area (ac)	CN	Description
*	0.270	84	>75% Grass cover, Good, HSG D
	0.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	100	0.0100	0.14		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
0.1	22	0.0075	4.46	7.88	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP-2 Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
13.5	518	Total			

Subcatchment PDA1A PERV: PDA-1A PERV



Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.19	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.19	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.20	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.20	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.21	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.21	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.21	0.00	0.00
0.40	0.03	0.00	0.00	3.00	0.22	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.22	0.00	0.00
0.50	0.03	0.00	0.00	3.10	0.23	0.00	0.00
0.55	0.04	0.00	0.00	3.15	0.23	0.00	0.00
0.60	0.04	0.00	0.00	3.20	0.23	0.00	0.00
0.65	0.04	0.00	0.00	3.25	0.24	0.00	0.00
0.70	0.05	0.00	0.00	3.30	0.24	0.00	0.00
0.75	0.05	0.00	0.00	3.35	0.25	0.00	0.00
0.80	0.05	0.00	0.00	3.40	0.25	0.00	0.00
0.85	0.06	0.00	0.00	3.45	0.25	0.00	0.00
0.90	0.06	0.00	0.00	3.50	0.26	0.00	0.00
0.95	0.06	0.00	0.00	3.55	0.26	0.00	0.00
1.00	0.07	0.00	0.00	3.60	0.27	0.00	0.00
1.05	0.07	0.00	0.00	3.65	0.27	0.00	0.00
1.10	0.07	0.00	0.00	3.70	0.28	0.00	0.00
1.15	0.08	0.00	0.00	3.75	0.28	0.00	0.00
1.20	0.08	0.00	0.00	3.80	0.28	0.00	0.00
1.25	0.08	0.00	0.00	3.85	0.29	0.00	0.00
1.30	0.09	0.00	0.00	3.90	0.29	0.00	0.00
1.35	0.09	0.00	0.00	3.95	0.30	0.00	0.00
1.40	0.10	0.00	0.00	4.00	0.30	0.00	0.00
1.45	0.10	0.00	0.00	4.05	0.31	0.00	0.00
1.50	0.10	0.00	0.00	4.10	0.31	0.00	0.00
1.55	0.11	0.00	0.00	4.15	0.32	0.00	0.00
1.60	0.11	0.00	0.00	4.20	0.32	0.00	0.00
1.65	0.11	0.00	0.00	4.25	0.32	0.00	0.00
1.70	0.12	0.00	0.00	4.30	0.33	0.00	0.00
1.75	0.12	0.00	0.00	4.35	0.33	0.00	0.00
1.80	0.12	0.00	0.00	4.40	0.34	0.00	0.00
1.85	0.13	0.00	0.00	4.45	0.34	0.00	0.00
1.90	0.13	0.00	0.00	4.50	0.35	0.00	0.00
1.95	0.14	0.00	0.00	4.55	0.35	0.00	0.00
2.00	0.14	0.00	0.00	4.60	0.36	0.00	0.00
2.05	0.14	0.00	0.00	4.65	0.36	0.00	0.00
2.10	0.15	0.00	0.00	4.70	0.36	0.00	0.00
2.15	0.15	0.00	0.00	4.75	0.37	0.00	0.00
2.20	0.15	0.00	0.00	4.80	0.37	0.00	0.00
2.25	0.16	0.00	0.00	4.85	0.38	0.00	0.00
2.30	0.16	0.00	0.00	4.90	0.38	0.00	0.00
2.35	0.17	0.00	0.00	4.95	0.39	0.00	0.00
2.40	0.17	0.00	0.00	5.00	0.39	0.00	0.00
2.45	0.17	0.00	0.00	5.05	0.40	0.00	0.00
2.50	0.18	0.00	0.00	5.10	0.40	0.00	0.00
2.55	0.18	0.00	0.00	5.15	0.41	0.00	0.00

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.41	0.00	0.00	7.80	0.71	0.05	0.01
5.25	0.42	0.00	0.00	7.85	0.72	0.05	0.01
5.30	0.42	0.00	0.00	7.90	0.72	0.05	0.01
5.35	0.43	0.00	0.00	7.95	0.73	0.05	0.01
5.40	0.43	0.00	0.00	8.00	0.74	0.06	0.01
5.45	0.44	0.00	0.00	8.05	0.75	0.06	0.01
5.50	0.44	0.00	0.00	8.10	0.75	0.06	0.01
5.55	0.44	0.00	0.00	8.15	0.76	0.06	0.01
5.60	0.45	0.00	0.00	8.20	0.77	0.07	0.01
5.65	0.45	0.00	0.00	8.25	0.78	0.07	0.01
5.70	0.46	0.00	0.00	8.30	0.79	0.07	0.01
5.75	0.46	0.00	0.00	8.35	0.79	0.07	0.01
5.80	0.47	0.00	0.00	8.40	0.80	0.08	0.01
5.85	0.47	0.00	0.00	8.45	0.81	0.08	0.01
5.90	0.48	0.00	0.00	8.50	0.82	0.08	0.01
5.95	0.48	0.01	0.00	8.55	0.83	0.08	0.01
6.00	0.49	0.01	0.00	8.60	0.83	0.09	0.01
6.05	0.49	0.01	0.00	8.65	0.84	0.09	0.01
6.10	0.50	0.01	0.00	8.70	0.85	0.09	0.01
6.15	0.50	0.01	0.00	8.75	0.86	0.10	0.01
6.20	0.51	0.01	0.00	8.80	0.87	0.10	0.01
6.25	0.51	0.01	0.00	8.85	0.88	0.10	0.01
6.30	0.52	0.01	0.00	8.90	0.88	0.11	0.02
6.35	0.53	0.01	0.00	8.95	0.89	0.11	0.02
6.40	0.53	0.01	0.00	9.00	0.90	0.11	0.02
6.45	0.54	0.01	0.00	9.05	0.91	0.12	0.02
6.50	0.54	0.01	0.00	9.10	0.92	0.12	0.02
6.55	0.55	0.01	0.00	9.15	0.93	0.12	0.02
6.60	0.55	0.01	0.00	9.20	0.94	0.13	0.02
6.65	0.56	0.02	0.00	9.25	0.95	0.13	0.02
6.70	0.57	0.02	0.00	9.30	0.96	0.13	0.02
6.75	0.57	0.02	0.00	9.35	0.97	0.14	0.02
6.80	0.58	0.02	0.00	9.40	0.98	0.14	0.02
6.85	0.58	0.02	0.00	9.45	0.99	0.15	0.02
6.90	0.59	0.02	0.00	9.50	1.00	0.15	0.02
6.95	0.60	0.02	0.01	9.55	1.01	0.16	0.02
7.00	0.60	0.02	0.01	9.60	1.02	0.16	0.02
7.05	0.61	0.02	0.01	9.65	1.04	0.17	0.02
7.10	0.61	0.03	0.01	9.70	1.05	0.17	0.02
7.15	0.62	0.03	0.01	9.75	1.06	0.18	0.02
7.20	0.63	0.03	0.01	9.80	1.07	0.18	0.03
7.25	0.63	0.03	0.01	9.85	1.09	0.19	0.03
7.30	0.64	0.03	0.01	9.90	1.10	0.20	0.03
7.35	0.65	0.03	0.01	9.95	1.11	0.20	0.03
7.40	0.65	0.03	0.01	10.00	1.12	0.21	0.03
7.45	0.66	0.04	0.01	10.05	1.14	0.22	0.03
7.50	0.67	0.04	0.01	10.10	1.15	0.22	0.03
7.55	0.67	0.04	0.01	10.15	1.17	0.23	0.03
7.60	0.68	0.04	0.01	10.20	1.18	0.24	0.03
7.65	0.69	0.04	0.01	10.25	1.20	0.24	0.03
7.70	0.70	0.04	0.01	10.30	1.21	0.25	0.03
7.75	0.70	0.05	0.01	10.35	1.23	0.26	0.04

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.24	0.27	0.04	13.00	4.69	2.99	0.23
10.45	1.26	0.28	0.04	13.05	4.71	3.01	0.21
10.50	1.27	0.28	0.04	13.10	4.74	3.03	0.20
10.55	1.29	0.29	0.04	13.15	4.76	3.05	0.18
10.60	1.31	0.30	0.04	13.20	4.78	3.07	0.17
10.65	1.33	0.31	0.04	13.25	4.80	3.09	0.16
10.70	1.34	0.32	0.04	13.30	4.83	3.11	0.15
10.75	1.37	0.34	0.05	13.35	4.84	3.13	0.14
10.80	1.39	0.35	0.05	13.40	4.86	3.15	0.13
10.85	1.41	0.36	0.05	13.45	4.88	3.16	0.13
10.90	1.43	0.37	0.05	13.50	4.90	3.18	0.12
10.95	1.46	0.39	0.06	13.55	4.91	3.19	0.11
11.00	1.48	0.40	0.06	13.60	4.93	3.21	0.11
11.05	1.51	0.42	0.06	13.65	4.94	3.22	0.10
11.10	1.54	0.44	0.07	13.70	4.96	3.23	0.10
11.15	1.57	0.46	0.07	13.75	4.97	3.25	0.09
11.20	1.60	0.47	0.07	13.80	4.99	3.26	0.09
11.25	1.63	0.50	0.08	13.85	5.00	3.27	0.09
11.30	1.67	0.52	0.09	13.90	5.02	3.29	0.08
11.35	1.70	0.54	0.09	13.95	5.03	3.30	0.08
11.40	1.74	0.57	0.10	14.00	5.05	3.31	0.08
11.45	1.78	0.59	0.10	14.05	5.06	3.32	0.08
11.50	1.82	0.62	0.11	14.10	5.07	3.34	0.08
11.55	1.89	0.66	0.12	14.15	5.08	3.35	0.07
11.60	1.95	0.71	0.13	14.20	5.10	3.36	0.07
11.65	2.01	0.75	0.14	14.25	5.11	3.37	0.07
11.70	2.08	0.80	0.16	14.30	5.12	3.38	0.07
11.75	2.17	0.87	0.17	14.35	5.13	3.39	0.07
11.80	2.26	0.93	0.19	14.40	5.15	3.40	0.07
11.85	2.38	1.03	0.22	14.45	5.16	3.41	0.07
11.90	2.51	1.12	0.25	14.50	5.17	3.42	0.06
11.95	2.72	1.29	0.30	14.55	5.18	3.44	0.06
12.00	2.94	1.47	0.36	14.60	5.19	3.45	0.06
12.05	3.30	1.77	0.44	14.65	5.20	3.45	0.06
12.10	3.66	2.07	0.57	14.70	5.21	3.46	0.06
12.15	3.79	2.18	0.72	14.75	5.22	3.47	0.06
12.20	3.91	2.29	**0.82**	14.80	5.23	3.48	0.06
12.25	4.00	2.37	**0.83**	14.85	5.24	3.49	0.06
12.30	4.09	2.45	0.79	14.90	5.25	3.50	0.05
12.35	4.16	2.51	0.74	14.95	5.26	3.51	0.05
12.40	4.22	2.57	0.68	15.00	5.27	3.52	0.05
12.45	4.28	2.62	0.62	15.05	5.28	3.53	0.05
12.50	4.35	2.68	0.57	15.10	5.29	3.53	0.05
12.55	4.39	2.72	0.52	15.15	5.29	3.54	0.05
12.60	4.43	2.75	0.48	15.20	5.30	3.55	0.05
12.65	4.47	2.79	0.44	15.25	5.31	3.56	0.05
12.70	4.50	2.82	0.40	15.30	5.32	3.56	0.05
12.75	4.54	2.85	0.36	15.35	5.33	3.57	0.05
12.80	4.57	2.88	0.33	15.40	5.34	3.58	0.04
12.85	4.60	2.91	0.30	15.45	5.34	3.59	0.04
12.90	4.63	2.94	0.28	15.50	5.35	3.59	0.04
12.95	4.66	2.96	0.25	15.55	5.36	3.60	0.04

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.37	3.61	0.04	18.20	5.70	3.92	0.03
15.65	5.38	3.62	0.04	18.25	5.71	3.92	0.03
15.70	5.38	3.62	0.04	18.30	5.71	3.93	0.03
15.75	5.39	3.63	0.04	18.35	5.72	3.93	0.03
15.80	5.40	3.64	0.04	18.40	5.72	3.94	0.03
15.85	5.41	3.65	0.04	18.45	5.73	3.94	0.03
15.90	5.42	3.65	0.04	18.50	5.73	3.94	0.03
15.95	5.42	3.66	0.04	18.55	5.73	3.95	0.03
16.00	5.43	3.67	0.04	18.60	5.74	3.95	0.03
16.05	5.44	3.67	0.04	18.65	5.74	3.96	0.02
16.10	5.45	3.68	0.04	18.70	5.75	3.96	0.02
16.15	5.45	3.69	0.04	18.75	5.75	3.97	0.02
16.20	5.46	3.69	0.04	18.80	5.76	3.97	0.02
16.25	5.47	3.70	0.04	18.85	5.76	3.98	0.02
16.30	5.47	3.71	0.04	18.90	5.77	3.98	0.02
16.35	5.48	3.71	0.04	18.95	5.77	3.98	0.02
16.40	5.49	3.72	0.04	19.00	5.78	3.99	0.02
16.45	5.50	3.73	0.04	19.05	5.78	3.99	0.02
16.50	5.50	3.73	0.04	19.10	5.79	4.00	0.02
16.55	5.51	3.74	0.04	19.15	5.79	4.00	0.02
16.60	5.52	3.75	0.04	19.20	5.80	4.01	0.02
16.65	5.52	3.75	0.04	19.25	5.80	4.01	0.02
16.70	5.53	3.76	0.04	19.30	5.81	4.01	0.02
16.75	5.54	3.76	0.04	19.35	5.81	4.02	0.02
16.80	5.54	3.77	0.03	19.40	5.81	4.02	0.02
16.85	5.55	3.78	0.03	19.45	5.82	4.03	0.02
16.90	5.56	3.78	0.03	19.50	5.82	4.03	0.02
16.95	5.56	3.79	0.03	19.55	5.83	4.04	0.02
17.00	5.57	3.79	0.03	19.60	5.83	4.04	0.02
17.05	5.57	3.80	0.03	19.65	5.84	4.04	0.02
17.10	5.58	3.81	0.03	19.70	5.84	4.05	0.02
17.15	5.59	3.81	0.03	19.75	5.85	4.05	0.02
17.20	5.59	3.82	0.03	19.80	5.85	4.06	0.02
17.25	5.60	3.82	0.03	19.85	5.85	4.06	0.02
17.30	5.60	3.83	0.03	19.90	5.86	4.06	0.02
17.35	5.61	3.83	0.03	19.95	5.86	4.07	0.02
17.40	5.62	3.84	0.03	20.00	5.87	4.07	0.02
17.45	5.62	3.84	0.03	20.05	5.87	4.08	0.02
17.50	5.63	3.85	0.03	20.10	5.88	4.08	0.02
17.55	5.63	3.85	0.03	20.15	5.88	4.09	0.02
17.60	5.64	3.86	0.03	20.20	5.89	4.09	0.02
17.65	5.64	3.86	0.03	20.25	5.89	4.09	0.02
17.70	5.65	3.87	0.03	20.30	5.89	4.10	0.02
17.75	5.66	3.87	0.03	20.35	5.90	4.10	0.02
17.80	5.66	3.88	0.03	20.40	5.90	4.11	0.02
17.85	5.67	3.88	0.03	20.45	5.91	4.11	0.02
17.90	5.67	3.89	0.03	20.50	5.91	4.11	0.02
17.95	5.68	3.89	0.03	20.55	5.92	4.12	0.02
18.00	5.68	3.90	0.03	20.60	5.92	4.12	0.02
18.05	5.69	3.90	0.03	20.65	5.92	4.12	0.02
18.10	5.69	3.91	0.03	20.70	5.93	4.13	0.02
18.15	5.70	3.91	0.03	20.75	5.93	4.13	0.02

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.94	4.14	0.02	23.40	6.13	4.32	0.02
20.85	5.94	4.14	0.02	23.45	6.13	4.32	0.02
20.90	5.94	4.14	0.02	23.50	6.14	4.32	0.02
20.95	5.95	4.15	0.02	23.55	6.14	4.33	0.02
21.00	5.95	4.15	0.02	23.60	6.14	4.33	0.02
21.05	5.96	4.16	0.02	23.65	6.15	4.33	0.02
21.10	5.96	4.16	0.02	23.70	6.15	4.34	0.02
21.15	5.96	4.16	0.02	23.75	6.15	4.34	0.02
21.20	5.97	4.17	0.02	23.80	6.16	4.34	0.02
21.25	5.97	4.17	0.02	23.85	6.16	4.35	0.02
21.30	5.98	4.17	0.02	23.90	6.16	4.35	0.02
21.35	5.98	4.18	0.02	23.95	6.17	4.35	0.02
21.40	5.98	4.18	0.02	24.00	**6.17**	**4.36**	0.02
21.45	5.99	4.19	0.02				
21.50	5.99	4.19	0.02				
21.55	6.00	4.19	0.02				
21.60	6.00	4.20	0.02				
21.65	6.00	4.20	0.02				
21.70	6.01	4.20	0.02				
21.75	6.01	4.21	0.02				
21.80	6.02	4.21	0.02				
21.85	6.02	4.21	0.02				
21.90	6.02	4.22	0.02				
21.95	6.03	4.22	0.02				
22.00	6.03	4.23	0.02				
22.05	6.03	4.23	0.02				
22.10	6.04	4.23	0.02				
22.15	6.04	4.24	0.02				
22.20	6.05	4.24	0.02				
22.25	6.05	4.24	0.02				
22.30	6.05	4.25	0.02				
22.35	6.06	4.25	0.02				
22.40	6.06	4.25	0.02				
22.45	6.06	4.26	0.02				
22.50	6.07	4.26	0.02				
22.55	6.07	4.26	0.02				
22.60	6.07	4.27	0.02				
22.65	6.08	4.27	0.02				
22.70	6.08	4.27	0.02				
22.75	6.09	4.28	0.02				
22.80	6.09	4.28	0.02				
22.85	6.09	4.28	0.02				
22.90	6.10	4.29	0.02				
22.95	6.10	4.29	0.02				
23.00	6.10	4.29	0.02				
23.05	6.11	4.30	0.02				
23.10	6.11	4.30	0.02				
23.15	6.11	4.30	0.02				
23.20	6.12	4.31	0.02				
23.25	6.12	4.31	0.02				
23.30	6.12	4.31	0.02				
23.35	6.13	4.31	0.02				

Summary for Subcatchment PDA1B IMP: PDA1B IMP

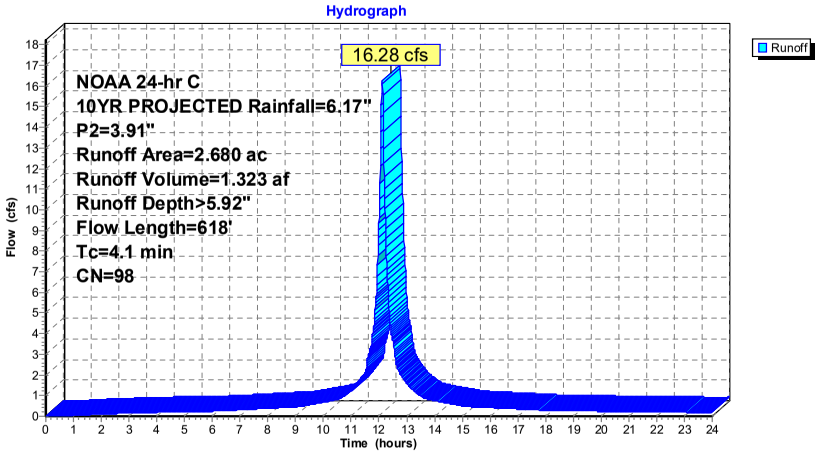
Runoff = 16.28 cfs @ 12.12 hrs, Volume= 1.323 af, Depth> 5.92"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR PROJECTED Rainfall=6.17", P2=3.91"

	Area (ac)	CN	Description
	0.100	96	Gravel surface, HSG A
	0.070	96	Gravel surface, HSG D
*	0.190	98	Impervious vehicular
	2.210	98	Roofs, HSG D
*	0.110	98	Impervious non vehicular, HSG D
	2.680	98	Weighted Average
	0.170		6.34% Pervious Area
	2.510		93.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	8	0.0100	0.70		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.1	16	0.0150	1.84		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.9	93	0.0011	1.71	3.02	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
4.1	618	Total			

Subcatchment PDA1B IMP: PDA1B IMP



Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.06	0.14
0.05	0.00	0.00	0.00	2.65	0.19	0.06	0.14
0.10	0.01	0.00	0.00	2.70	0.19	0.07	0.14
0.15	0.01	0.00	0.00	2.75	0.20	0.07	0.14
0.20	0.01	0.00	0.00	2.80	0.20	0.07	0.14
0.25	0.02	0.00	0.00	2.85	0.21	0.07	0.15
0.30	0.02	0.00	0.00	2.90	0.21	0.08	0.15
0.35	0.02	0.00	0.00	2.95	0.21	0.08	0.15
0.40	0.03	0.00	0.00	3.00	0.22	0.08	0.15
0.45	0.03	0.00	0.00	3.05	0.22	0.09	0.15
0.50	0.03	0.00	0.00	3.10	0.23	0.09	0.16
0.55	0.04	0.00	0.00	3.15	0.23	0.09	0.16
0.60	0.04	0.00	0.00	3.20	0.23	0.09	0.16
0.65	0.04	0.00	0.00	3.25	0.24	0.10	0.16
0.70	0.05	0.00	0.00	3.30	0.24	0.10	0.16
0.75	0.05	0.00	0.01	3.35	0.25	0.10	0.17
0.80	0.05	0.00	0.01	3.40	0.25	0.11	0.17
0.85	0.06	0.00	0.02	3.45	0.25	0.11	0.17
0.90	0.06	0.00	0.02	3.50	0.26	0.11	0.17
0.95	0.06	0.00	0.03	3.55	0.26	0.12	0.17
1.00	0.07	0.00	0.03	3.60	0.27	0.12	0.17
1.05	0.07	0.00	0.04	3.65	0.27	0.12	0.18
1.10	0.07	0.00	0.04	3.70	0.28	0.13	0.18
1.15	0.08	0.01	0.04	3.75	0.28	0.13	0.18
1.20	0.08	0.01	0.05	3.80	0.28	0.13	0.18
1.25	0.08	0.01	0.05	3.85	0.29	0.14	0.18
1.30	0.09	0.01	0.06	3.90	0.29	0.14	0.18
1.35	0.09	0.01	0.06	3.95	0.30	0.14	0.19
1.40	0.10	0.01	0.06	4.00	0.30	0.15	0.19
1.45	0.10	0.01	0.07	4.05	0.31	0.15	0.19
1.50	0.10	0.01	0.07	4.10	0.31	0.15	0.19
1.55	0.11	0.02	0.08	4.15	0.32	0.16	0.19
1.60	0.11	0.02	0.08	4.20	0.32	0.16	0.19
1.65	0.11	0.02	0.08	4.25	0.32	0.16	0.20
1.70	0.12	0.02	0.09	4.30	0.33	0.17	0.20
1.75	0.12	0.02	0.09	4.35	0.33	0.17	0.20
1.80	0.12	0.02	0.09	4.40	0.34	0.18	0.20
1.85	0.13	0.03	0.10	4.45	0.34	0.18	0.20
1.90	0.13	0.03	0.10	4.50	0.35	0.18	0.20
1.95	0.14	0.03	0.10	4.55	0.35	0.19	0.20
2.00	0.14	0.03	0.10	4.60	0.36	0.19	0.20
2.05	0.14	0.03	0.11	4.65	0.36	0.19	0.21
2.10	0.15	0.04	0.11	4.70	0.36	0.20	0.21
2.15	0.15	0.04	0.11	4.75	0.37	0.20	0.21
2.20	0.15	0.04	0.12	4.80	0.37	0.21	0.21
2.25	0.16	0.04	0.12	4.85	0.38	0.21	0.21
2.30	0.16	0.05	0.12	4.90	0.38	0.21	0.21
2.35	0.17	0.05	0.12	4.95	0.39	0.22	0.21
2.40	0.17	0.05	0.13	5.00	0.39	0.22	0.22
2.45	0.17	0.05	0.13	5.05	0.40	0.23	0.22
2.50	0.18	0.06	0.13	5.10	0.40	0.23	0.22
2.55	0.18	0.06	0.13	5.15	0.41	0.23	0.22

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.41	0.24	0.22	7.80	0.71	0.51	0.36
5.25	0.42	0.24	0.22	7.85	0.72	0.52	0.37
5.30	0.42	0.25	0.22	7.90	0.72	0.53	0.37
5.35	0.43	0.25	0.22	7.95	0.73	0.53	0.37
5.40	0.43	0.26	0.23	8.00	0.74	0.54	0.38
5.45	0.44	0.26	0.23	8.05	0.75	0.55	0.38
5.50	0.44	0.26	0.23	8.10	0.75	0.55	0.38
5.55	0.44	0.27	0.23	8.15	0.76	0.56	0.39
5.60	0.45	0.27	0.23	8.20	0.77	0.57	0.39
5.65	0.45	0.28	0.23	8.25	0.78	0.58	0.39
5.70	0.46	0.28	0.23	8.30	0.79	0.58	0.40
5.75	0.46	0.29	0.23	8.35	0.79	0.59	0.40
5.80	0.47	0.29	0.24	8.40	0.80	0.60	0.40
5.85	0.47	0.29	0.24	8.45	0.81	0.61	0.41
5.90	0.48	0.30	0.24	8.50	0.82	0.61	0.41
5.95	0.48	0.30	0.24	8.55	0.83	0.62	0.41
6.00	0.49	0.31	0.24	8.60	0.83	0.63	0.42
6.05	0.49	0.31	0.24	8.65	0.84	0.64	0.42
6.10	0.50	0.32	0.25	8.70	0.85	0.65	0.43
6.15	0.50	0.32	0.25	8.75	0.86	0.65	0.43
6.20	0.51	0.33	0.25	8.80	0.87	0.66	0.43
6.25	0.51	0.33	0.26	8.85	0.88	0.67	0.44
6.30	0.52	0.34	0.26	8.90	0.88	0.68	0.44
6.35	0.53	0.34	0.26	8.95	0.89	0.69	0.44
6.40	0.53	0.35	0.27	9.00	0.90	0.70	0.45
6.45	0.54	0.35	0.27	9.05	0.91	0.70	0.45
6.50	0.54	0.36	0.27	9.10	0.92	0.71	0.46
6.55	0.55	0.36	0.28	9.15	0.93	0.72	0.47
6.60	0.55	0.37	0.28	9.20	0.94	0.73	0.49
6.65	0.56	0.37	0.28	9.25	0.95	0.74	0.50
6.70	0.57	0.38	0.29	9.30	0.96	0.75	0.51
6.75	0.57	0.38	0.29	9.35	0.97	0.76	0.52
6.80	0.58	0.39	0.29	9.40	0.98	0.77	0.54
6.85	0.58	0.39	0.30	9.45	0.99	0.78	0.55
6.90	0.59	0.40	0.30	9.50	1.00	0.79	0.56
6.95	0.60	0.41	0.30	9.55	1.01	0.80	0.57
7.00	0.60	0.41	0.31	9.60	1.02	0.81	0.59
7.05	0.61	0.42	0.31	9.65	1.04	0.83	0.60
7.10	0.61	0.42	0.31	9.70	1.05	0.84	0.61
7.15	0.62	0.43	0.32	9.75	1.06	0.85	0.62
7.20	0.63	0.44	0.32	9.80	1.07	0.86	0.63
7.25	0.63	0.44	0.32	9.85	1.09	0.87	0.65
7.30	0.64	0.45	0.33	9.90	1.10	0.89	0.66
7.35	0.65	0.45	0.33	9.95	1.11	0.90	0.67
7.40	0.65	0.46	0.33	10.00	1.12	0.91	0.69
7.45	0.66	0.47	0.34	10.05	1.14	0.93	0.70
7.50	0.67	0.47	0.34	10.10	1.15	0.94	0.71
7.55	0.67	0.48	0.35	10.15	1.17	0.95	0.72
7.60	0.68	0.49	0.35	10.20	1.18	0.97	0.74
7.65	0.69	0.49	0.35	10.25	1.20	0.98	0.75
7.70	0.70	0.50	0.36	10.30	1.21	1.00	0.76
7.75	0.70	0.51	0.36	10.35	1.23	1.01	0.77

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.24	1.03	0.79	13.00	4.69	4.45	1.59
10.45	1.26	1.04	0.80	13.05	4.71	4.48	1.51
10.50	1.27	1.06	0.81	13.10	4.74	4.50	1.42
10.55	1.29	1.07	0.84	13.15	4.76	4.52	1.35
10.60	1.31	1.09	0.88	13.20	4.78	4.55	1.29
10.65	1.33	1.11	0.92	13.25	4.80	4.57	1.23
10.70	1.34	1.13	0.96	13.30	4.83	4.59	1.18
10.75	1.37	1.15	1.01	13.35	4.84	4.61	1.13
10.80	1.39	1.17	1.06	13.40	4.86	4.63	1.08
10.85	1.41	1.19	1.11	13.45	4.88	4.64	1.04
10.90	1.43	1.21	1.15	13.50	4.90	4.66	0.99
10.95	1.46	1.24	1.20	13.55	4.91	4.68	0.94
11.00	1.48	1.26	1.25	13.60	4.93	4.69	0.89
11.05	1.51	1.29	1.31	13.65	4.94	4.71	0.86
11.10	1.54	1.32	1.39	13.70	4.96	4.72	0.84
11.15	1.57	1.35	1.47	13.75	4.97	4.74	0.82
11.20	1.60	1.38	1.56	13.80	4.99	4.75	0.81
11.25	1.63	1.41	1.65	13.85	5.00	4.77	0.79
11.30	1.67	1.45	1.74	13.90	5.02	4.78	0.78
11.35	1.70	1.48	1.83	13.95	5.03	4.79	0.77
11.40	1.74	1.52	1.92	14.00	5.05	4.81	0.75
11.45	1.78	1.56	2.00	14.05	5.06	4.82	0.74
11.50	1.82	1.60	2.07	14.10	5.07	4.83	0.73
11.55	1.89	1.66	2.37	14.15	5.08	4.85	0.72
11.60	1.95	1.72	2.83	14.20	5.10	4.86	0.71
11.65	2.01	1.79	3.11	14.25	5.11	4.87	0.69
11.70	2.08	1.85	3.31	14.30	5.12	4.88	0.68
11.75	2.17	1.94	3.71	14.35	5.13	4.90	0.67
11.80	2.26	2.03	4.24	14.40	5.15	4.91	0.65
11.85	2.38	2.16	4.94	14.45	5.16	4.92	0.64
11.90	2.51	2.28	5.79	14.50	5.17	4.93	0.63
11.95	2.72	2.49	7.31	14.55	5.18	4.94	0.62
12.00	2.94	2.71	9.36	14.60	5.19	4.95	0.61
12.05	3.30	3.07	12.16	14.65	5.20	4.96	0.59
12.10	3.66	3.43	**15.62**	14.70	5.21	4.97	0.58
12.15	3.79	3.55	**14.70**	14.75	5.22	4.98	0.57
12.20	3.91	3.68	11.01	14.80	5.23	4.99	0.56
12.25	4.00	3.77	8.61	14.85	5.24	5.00	0.54
12.30	4.09	3.86	6.82	14.90	5.25	5.01	0.53
12.35	4.16	3.92	5.52	14.95	5.26	5.02	0.52
12.40	4.22	3.99	4.51	15.00	5.27	5.03	0.50
12.45	4.28	4.05	3.98	15.05	5.28	5.04	0.49
12.50	4.35	4.11	3.65	15.10	5.29	5.05	0.48
12.55	4.39	4.15	3.22	15.15	5.29	5.06	0.47
12.60	4.43	4.19	2.71	15.20	5.30	5.07	0.47
12.65	4.47	4.23	2.42	15.25	5.31	5.07	0.46
12.70	4.50	4.27	2.23	15.30	5.32	5.08	0.46
12.75	4.54	4.30	2.08	15.35	5.33	5.09	0.45
12.80	4.57	4.34	1.97	15.40	5.34	5.10	0.45
12.85	4.60	4.37	1.87	15.45	5.34	5.11	0.45
12.90	4.63	4.40	1.78	15.50	5.35	5.12	0.44
12.95	4.66	4.43	1.69	15.55	5.36	5.12	0.44

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.37	5.13	0.44	18.20	5.70	5.46	0.27
15.65	5.38	5.14	0.43	18.25	5.71	5.47	0.27
15.70	5.38	5.15	0.43	18.30	5.71	5.47	0.27
15.75	5.39	5.16	0.43	18.35	5.72	5.48	0.26
15.80	5.40	5.16	0.42	18.40	5.72	5.48	0.26
15.85	5.41	5.17	0.42	18.45	5.73	5.49	0.26
15.90	5.42	5.18	0.42	18.50	5.73	5.49	0.26
15.95	5.42	5.19	0.41	18.55	5.73	5.50	0.26
16.00	5.43	5.19	0.41	18.60	5.74	5.50	0.26
16.05	5.44	5.20	0.41	18.65	5.74	5.51	0.26
16.10	5.45	5.21	0.40	18.70	5.75	5.51	0.26
16.15	5.45	5.22	0.40	18.75	5.75	5.52	0.26
16.20	5.46	5.22	0.40	18.80	5.76	5.52	0.26
16.25	5.47	5.23	0.39	18.85	5.76	5.53	0.26
16.30	5.47	5.24	0.39	18.90	5.77	5.53	0.26
16.35	5.48	5.24	0.39	18.95	5.77	5.54	0.25
16.40	5.49	5.25	0.38	19.00	5.78	5.54	0.25
16.45	5.50	5.26	0.38	19.05	5.78	5.54	0.25
16.50	5.50	5.26	0.38	19.10	5.79	5.55	0.25
16.55	5.51	5.27	0.37	19.15	5.79	5.55	0.25
16.60	5.52	5.28	0.37	19.20	5.80	5.56	0.25
16.65	5.52	5.29	0.37	19.25	5.80	5.56	0.25
16.70	5.53	5.29	0.36	19.30	5.81	5.57	0.25
16.75	5.54	5.30	0.36	19.35	5.81	5.57	0.25
16.80	5.54	5.31	0.36	19.40	5.81	5.58	0.25
16.85	5.55	5.31	0.35	19.45	5.82	5.58	0.25
16.90	5.56	5.32	0.35	19.50	5.82	5.59	0.25
16.95	5.56	5.32	0.35	19.55	5.83	5.59	0.24
17.00	5.57	5.33	0.34	19.60	5.83	5.59	0.24
17.05	5.57	5.34	0.34	19.65	5.84	5.60	0.24
17.10	5.58	5.34	0.34	19.70	5.84	5.60	0.24
17.15	5.59	5.35	0.34	19.75	5.85	5.61	0.24
17.20	5.59	5.36	0.33	19.80	5.85	5.61	0.24
17.25	5.60	5.36	0.33	19.85	5.85	5.62	0.24
17.30	5.60	5.37	0.32	19.90	5.86	5.62	0.24
17.35	5.61	5.37	0.32	19.95	5.86	5.63	0.24
17.40	5.62	5.38	0.32	20.00	5.87	5.63	0.24
17.45	5.62	5.38	0.31	20.05	5.87	5.63	0.24
17.50	5.63	5.39	0.31	20.10	5.88	5.64	0.24
17.55	5.63	5.40	0.31	20.15	5.88	5.64	0.23
17.60	5.64	5.40	0.30	20.20	5.89	5.65	0.23
17.65	5.64	5.41	0.30	20.25	5.89	5.65	0.23
17.70	5.65	5.41	0.30	20.30	5.89	5.66	0.23
17.75	5.66	5.42	0.30	20.35	5.90	5.66	0.23
17.80	5.66	5.42	0.29	20.40	5.90	5.66	0.23
17.85	5.67	5.43	0.29	20.45	5.91	5.67	0.23
17.90	5.67	5.43	0.29	20.50	5.91	5.67	0.23
17.95	5.68	5.44	0.28	20.55	5.92	5.68	0.23
18.00	5.68	5.44	0.28	20.60	5.92	5.68	0.23
18.05	5.69	5.45	0.28	20.65	5.92	5.69	0.23
18.10	5.69	5.45	0.27	20.70	5.93	5.69	0.23
18.15	5.70	5.46	0.27	20.75	5.93	5.69	0.23

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.94	5.70	0.22	23.40	6.13	5.89	0.18
20.85	5.94	5.70	0.22	23.45	6.13	5.89	0.18
20.90	5.94	5.71	0.22	23.50	6.14	5.90	0.18
20.95	5.95	5.71	0.22	23.55	6.14	5.90	0.18
21.00	5.95	5.71	0.22	23.60	6.14	5.90	0.18
21.05	5.96	5.72	0.22	23.65	6.15	5.91	0.18
21.10	5.96	5.72	0.22	23.70	6.15	5.91	0.18
21.15	5.96	5.73	0.22	23.75	6.15	5.91	0.18
21.20	5.97	5.73	0.22	23.80	6.16	5.92	0.17
21.25	5.97	5.73	0.22	23.85	6.16	5.92	0.17
21.30	5.98	5.74	0.22	23.90	6.16	5.92	0.17
21.35	5.98	5.74	0.22	23.95	6.17	5.93	0.18
21.40	5.98	5.75	0.21	24.00	**6.17**	**5.93**	0.20
21.45	5.99	5.75	0.21				
21.50	5.99	5.75	0.21				
21.55	6.00	5.76	0.21				
21.60	6.00	5.76	0.21				
21.65	6.00	5.77	0.21				
21.70	6.01	5.77	0.21				
21.75	6.01	5.77	0.21				
21.80	6.02	5.78	0.21				
21.85	6.02	5.78	0.21				
21.90	6.02	5.78	0.21				
21.95	6.03	5.79	0.21				
22.00	6.03	5.79	0.20				
22.05	6.03	5.80	0.20				
22.10	6.04	5.80	0.20				
22.15	6.04	5.80	0.20				
22.20	6.05	5.81	0.20				
22.25	6.05	5.81	0.20				
22.30	6.05	5.81	0.20				
22.35	6.06	5.82	0.20				
22.40	6.06	5.82	0.20				
22.45	6.06	5.83	0.20				
22.50	6.07	5.83	0.20				
22.55	6.07	5.83	0.20				
22.60	6.07	5.84	0.20				
22.65	6.08	5.84	0.19				
22.70	6.08	5.84	0.19				
22.75	6.09	5.85	0.19				
22.80	6.09	5.85	0.19				
22.85	6.09	5.85	0.19				
22.90	6.10	5.86	0.19				
22.95	6.10	5.86	0.19				
23.00	6.10	5.86	0.19				
23.05	6.11	5.87	0.19				
23.10	6.11	5.87	0.19				
23.15	6.11	5.87	0.19				
23.20	6.12	5.88	0.18				
23.25	6.12	5.88	0.18				
23.30	6.12	5.88	0.18				
23.35	6.13	5.89	0.18				

Summary for Subcatchment PDA1B PERV: PDA-1B PERV

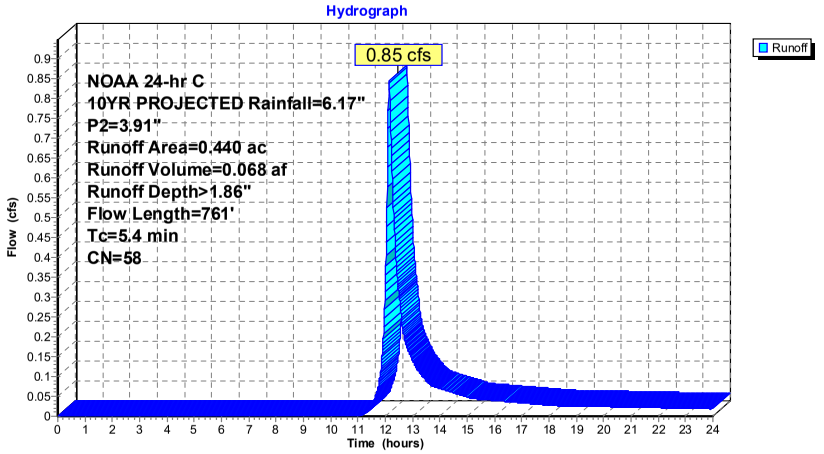
Runoff = 0.85 cfs @ 12.14 hrs, Volume= 0.068 af, Depth> 1.86"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR PROJECTED Rainfall=6.17", P2=3.91"

	Area (ac)	CN	Description
	0.250	39	>75% Grass cover, Good, HSG A
*	0.190	84	>75% Grass cover, Good, HSG D
	0.440	58	Weighted Average
	0.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	93	0.0100	1.14		**Sheet Flow, Grass** Smooth surfaces n= 0.011 P2= 3.91"
0.8	74	0.0100	1.50		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.3	93	0.0110	5.40	9.55	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
5.4	761	Total			

Subcatchment PDA1B PERV: PDA-1B PERV



Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.19	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.19	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.20	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.20	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.21	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.21	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.21	0.00	0.00
0.40	0.03	0.00	0.00	3.00	0.22	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.22	0.00	0.00
0.50	0.03	0.00	0.00	3.10	0.23	0.00	0.00
0.55	0.04	0.00	0.00	3.15	0.23	0.00	0.00
0.60	0.04	0.00	0.00	3.20	0.23	0.00	0.00
0.65	0.04	0.00	0.00	3.25	0.24	0.00	0.00
0.70	0.05	0.00	0.00	3.30	0.24	0.00	0.00
0.75	0.05	0.00	0.00	3.35	0.25	0.00	0.00
0.80	0.05	0.00	0.00	3.40	0.25	0.00	0.00
0.85	0.06	0.00	0.00	3.45	0.25	0.00	0.00
0.90	0.06	0.00	0.00	3.50	0.26	0.00	0.00
0.95	0.06	0.00	0.00	3.55	0.26	0.00	0.00
1.00	0.07	0.00	0.00	3.60	0.27	0.00	0.00
1.05	0.07	0.00	0.00	3.65	0.27	0.00	0.00
1.10	0.07	0.00	0.00	3.70	0.28	0.00	0.00
1.15	0.08	0.00	0.00	3.75	0.28	0.00	0.00
1.20	0.08	0.00	0.00	3.80	0.28	0.00	0.00
1.25	0.08	0.00	0.00	3.85	0.29	0.00	0.00
1.30	0.09	0.00	0.00	3.90	0.29	0.00	0.00
1.35	0.09	0.00	0.00	3.95	0.30	0.00	0.00
1.40	0.10	0.00	0.00	4.00	0.30	0.00	0.00
1.45	0.10	0.00	0.00	4.05	0.31	0.00	0.00
1.50	0.10	0.00	0.00	4.10	0.31	0.00	0.00
1.55	0.11	0.00	0.00	4.15	0.32	0.00	0.00
1.60	0.11	0.00	0.00	4.20	0.32	0.00	0.00
1.65	0.11	0.00	0.00	4.25	0.32	0.00	0.00
1.70	0.12	0.00	0.00	4.30	0.33	0.00	0.00
1.75	0.12	0.00	0.00	4.35	0.33	0.00	0.00
1.80	0.12	0.00	0.00	4.40	0.34	0.00	0.00
1.85	0.13	0.00	0.00	4.45	0.34	0.00	0.00
1.90	0.13	0.00	0.00	4.50	0.35	0.00	0.00
1.95	0.14	0.00	0.00	4.55	0.35	0.00	0.00
2.00	0.14	0.00	0.00	4.60	0.36	0.00	0.00
2.05	0.14	0.00	0.00	4.65	0.36	0.00	0.00
2.10	0.15	0.00	0.00	4.70	0.36	0.00	0.00
2.15	0.15	0.00	0.00	4.75	0.37	0.00	0.00
2.20	0.15	0.00	0.00	4.80	0.37	0.00	0.00
2.25	0.16	0.00	0.00	4.85	0.38	0.00	0.00
2.30	0.16	0.00	0.00	4.90	0.38	0.00	0.00
2.35	0.17	0.00	0.00	4.95	0.39	0.00	0.00
2.40	0.17	0.00	0.00	5.00	0.39	0.00	0.00
2.45	0.17	0.00	0.00	5.05	0.40	0.00	0.00
2.50	0.18	0.00	0.00	5.10	0.40	0.00	0.00
2.55	0.18	0.00	0.00	5.15	0.41	0.00	0.00

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.41	0.00	0.00	7.80	0.71	0.00	0.00
5.25	0.42	0.00	0.00	7.85	0.72	0.00	0.00
5.30	0.42	0.00	0.00	7.90	0.72	0.00	0.00
5.35	0.43	0.00	0.00	7.95	0.73	0.00	0.00
5.40	0.43	0.00	0.00	8.00	0.74	0.00	0.00
5.45	0.44	0.00	0.00	8.05	0.75	0.00	0.00
5.50	0.44	0.00	0.00	8.10	0.75	0.00	0.00
5.55	0.44	0.00	0.00	8.15	0.76	0.00	0.00
5.60	0.45	0.00	0.00	8.20	0.77	0.00	0.00
5.65	0.45	0.00	0.00	8.25	0.78	0.00	0.00
5.70	0.46	0.00	0.00	8.30	0.79	0.00	0.00
5.75	0.46	0.00	0.00	8.35	0.79	0.00	0.00
5.80	0.47	0.00	0.00	8.40	0.80	0.00	0.00
5.85	0.47	0.00	0.00	8.45	0.81	0.00	0.00
5.90	0.48	0.00	0.00	8.50	0.82	0.00	0.00
5.95	0.48	0.00	0.00	8.55	0.83	0.00	0.00
6.00	0.49	0.00	0.00	8.60	0.83	0.00	0.00
6.05	0.49	0.00	0.00	8.65	0.84	0.00	0.00
6.10	0.50	0.00	0.00	8.70	0.85	0.00	0.00
6.15	0.50	0.00	0.00	8.75	0.86	0.00	0.00
6.20	0.51	0.00	0.00	8.80	0.87	0.00	0.00
6.25	0.51	0.00	0.00	8.85	0.88	0.00	0.00
6.30	0.52	0.00	0.00	8.90	0.88	0.00	0.00
6.35	0.53	0.00	0.00	8.95	0.89	0.00	0.00
6.40	0.53	0.00	0.00	9.00	0.90	0.00	0.00
6.45	0.54	0.00	0.00	9.05	0.91	0.00	0.00
6.50	0.54	0.00	0.00	9.10	0.92	0.00	0.00
6.55	0.55	0.00	0.00	9.15	0.93	0.00	0.00
6.60	0.55	0.00	0.00	9.20	0.94	0.00	0.00
6.65	0.56	0.00	0.00	9.25	0.95	0.00	0.00
6.70	0.57	0.00	0.00	9.30	0.96	0.00	0.00
6.75	0.57	0.00	0.00	9.35	0.97	0.00	0.00
6.80	0.58	0.00	0.00	9.40	0.98	0.00	0.00
6.85	0.58	0.00	0.00	9.45	0.99	0.00	0.00
6.90	0.59	0.00	0.00	9.50	1.00	0.00	0.00
6.95	0.60	0.00	0.00	9.55	1.01	0.00	0.00
7.00	0.60	0.00	0.00	9.60	1.02	0.00	0.00
7.05	0.61	0.00	0.00	9.65	1.04	0.00	0.00
7.10	0.61	0.00	0.00	9.70	1.05	0.00	0.00
7.15	0.62	0.00	0.00	9.75	1.06	0.00	0.00
7.20	0.63	0.00	0.00	9.80	1.07	0.00	0.00
7.25	0.63	0.00	0.00	9.85	1.09	0.00	0.00
7.30	0.64	0.00	0.00	9.90	1.10	0.00	0.00
7.35	0.65	0.00	0.00	9.95	1.11	0.00	0.00
7.40	0.65	0.00	0.00	10.00	1.12	0.00	0.00
7.45	0.66	0.00	0.00	10.05	1.14	0.00	0.00
7.50	0.67	0.00	0.00	10.10	1.15	0.00	0.00
7.55	0.67	0.00	0.00	10.15	1.17	0.00	0.00
7.60	0.68	0.00	0.00	10.20	1.18	0.00	0.00
7.65	0.69	0.00	0.00	10.25	1.20	0.00	0.00
7.70	0.70	0.00	0.00	10.30	1.21	0.00	0.00
7.75	0.70	0.00	0.00	10.35	1.23	0.00	0.00

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.24	0.00	0.00	13.00	4.69	1.00	0.14
10.45	1.26	0.00	0.00	13.05	4.71	1.01	0.13
10.50	1.27	0.00	0.00	13.10	4.74	1.03	0.13
10.55	1.29	0.00	0.00	13.15	4.76	1.04	0.12
10.60	1.31	0.00	0.00	13.20	4.78	1.05	0.11
10.65	1.33	0.00	0.00	13.25	4.80	1.06	0.11
10.70	1.34	0.00	0.00	13.30	4.83	1.07	0.11
10.75	1.37	0.00	0.00	13.35	4.84	1.08	0.10
10.80	1.39	0.00	0.00	13.40	4.86	1.09	0.10
10.85	1.41	0.00	0.00	13.45	4.88	1.10	0.09
10.90	1.43	0.00	0.00	13.50	4.90	1.11	0.09
10.95	1.46	0.00	0.00	13.55	4.91	1.12	0.09
11.00	1.48	0.00	0.00	13.60	4.93	1.13	0.08
11.05	1.51	0.00	0.00	13.65	4.94	1.14	0.08
11.10	1.54	0.00	0.00	13.70	4.96	1.15	0.08
11.15	1.57	0.00	0.00	13.75	4.97	1.15	0.07
11.20	1.60	0.00	0.01	13.80	4.99	1.16	0.07
11.25	1.63	0.00	0.01	13.85	5.00	1.17	0.07
11.30	1.67	0.01	0.01	13.90	5.02	1.18	0.07
11.35	1.70	0.01	0.01	13.95	5.03	1.19	0.07
11.40	1.74	0.01	0.02	14.00	5.05	1.19	0.07
11.45	1.78	0.01	0.02	14.05	5.06	1.20	0.07
11.50	1.82	0.02	0.02	14.10	5.07	1.21	0.07
11.55	1.89	0.02	0.03	14.15	5.08	1.22	0.07
11.60	1.95	0.03	0.04	14.20	5.10	1.22	0.07
11.65	2.01	0.04	0.05	14.25	5.11	1.23	0.06
11.70	2.08	0.05	0.06	14.30	5.12	1.24	0.06
11.75	2.17	0.07	0.08	14.35	5.13	1.24	0.06
11.80	2.26	0.08	0.10	14.40	5.15	1.25	0.06
11.85	2.38	0.11	0.13	14.45	5.16	1.26	0.06
11.90	2.51	0.14	0.17	14.50	5.17	1.26	0.06
11.95	2.72	0.19	0.23	14.55	5.18	1.27	0.06
12.00	2.94	0.25	0.33	14.60	5.19	1.27	0.06
12.05	3.30	0.38	0.48	14.65	5.20	1.28	0.06
12.10	3.66	0.52	**0.72**	14.70	5.21	1.29	0.05
12.15	3.79	0.57	**0.84**	14.75	5.22	1.29	0.05
12.20	3.91	0.62	0.72	14.80	5.23	1.30	0.05
12.25	4.00	0.67	0.62	14.85	5.24	1.30	0.05
12.30	4.09	0.71	0.52	14.90	5.25	1.31	0.05
12.35	4.16	0.74	0.45	14.95	5.26	1.31	0.05
12.40	4.22	0.77	0.38	15.00	5.27	1.32	0.05
12.45	4.28	0.80	0.34	15.05	5.28	1.32	0.05
12.50	4.35	0.83	0.31	15.10	5.29	1.33	0.05
12.55	4.39	0.85	0.28	15.15	5.29	1.33	0.05
12.60	4.43	0.87	0.24	15.20	5.30	1.34	0.04
12.65	4.47	0.89	0.21	15.25	5.31	1.34	0.04
12.70	4.50	0.91	0.19	15.30	5.32	1.35	0.04
12.75	4.54	0.92	0.18	15.35	5.33	1.35	0.04
12.80	4.57	0.94	0.17	15.40	5.34	1.36	0.04
12.85	4.60	0.96	0.16	15.45	5.34	1.36	0.04
12.90	4.63	0.97	0.15	15.50	5.35	1.37	0.04
12.95	4.66	0.99	0.15	15.55	5.36	1.37	0.04

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.37	1.38	0.04	18.20	5.70	1.57	0.03
15.65	5.38	1.38	0.04	18.25	5.71	1.58	0.03
15.70	5.38	1.39	0.04	18.30	5.71	1.58	0.03
15.75	5.39	1.39	0.04	18.35	5.72	1.58	0.03
15.80	5.40	1.40	0.04	18.40	5.72	1.59	0.03
15.85	5.41	1.40	0.04	18.45	5.73	1.59	0.03
15.90	5.42	1.40	0.04	18.50	5.73	1.59	0.03
15.95	5.42	1.41	0.04	18.55	5.73	1.59	0.03
16.00	5.43	1.41	0.04	18.60	5.74	1.60	0.03
16.05	5.44	1.42	0.04	18.65	5.74	1.60	0.03
16.10	5.45	1.42	0.04	18.70	5.75	1.60	0.03
16.15	5.45	1.43	0.04	18.75	5.75	1.61	0.03
16.20	5.46	1.43	0.04	18.80	5.76	1.61	0.03
16.25	5.47	1.43	0.04	18.85	5.76	1.61	0.03
16.30	5.47	1.44	0.04	18.90	5.77	1.61	0.03
16.35	5.48	1.44	0.04	18.95	5.77	1.62	0.03
16.40	5.49	1.45	0.04	19.00	5.78	1.62	0.03
16.45	5.50	1.45	0.04	19.05	5.78	1.62	0.03
16.50	5.50	1.46	0.04	19.10	5.79	1.63	0.03
16.55	5.51	1.46	0.04	19.15	5.79	1.63	0.03
16.60	5.52	1.46	0.04	19.20	5.80	1.63	0.03
16.65	5.52	1.47	0.04	19.25	5.80	1.63	0.03
16.70	5.53	1.47	0.04	19.30	5.81	1.64	0.02
16.75	5.54	1.47	0.04	19.35	5.81	1.64	0.02
16.80	5.54	1.48	0.03	19.40	5.81	1.64	0.02
16.85	5.55	1.48	0.03	19.45	5.82	1.65	0.02
16.90	5.56	1.49	0.03	19.50	5.82	1.65	0.02
16.95	5.56	1.49	0.03	19.55	5.83	1.65	0.02
17.00	5.57	1.49	0.03	19.60	5.83	1.65	0.02
17.05	5.57	1.50	0.03	19.65	5.84	1.66	0.02
17.10	5.58	1.50	0.03	19.70	5.84	1.66	0.02
17.15	5.59	1.50	0.03	19.75	5.85	1.66	0.02
17.20	5.59	1.51	0.03	19.80	5.85	1.66	0.02
17.25	5.60	1.51	0.03	19.85	5.85	1.67	0.02
17.30	5.60	1.52	0.03	19.90	5.86	1.67	0.02
17.35	5.61	1.52	0.03	19.95	5.86	1.67	0.02
17.40	5.62	1.52	0.03	20.00	5.87	1.68	0.02
17.45	5.62	1.53	0.03	20.05	5.87	1.68	0.02
17.50	5.63	1.53	0.03	20.10	5.88	1.68	0.02
17.55	5.63	1.53	0.03	20.15	5.88	1.68	0.02
17.60	5.64	1.54	0.03	20.20	5.89	1.69	0.02
17.65	5.64	1.54	0.03	20.25	5.89	1.69	0.02
17.70	5.65	1.54	0.03	20.30	5.89	1.69	0.02
17.75	5.66	1.55	0.03	20.35	5.90	1.69	0.02
17.80	5.66	1.55	0.03	20.40	5.90	1.70	0.02
17.85	5.67	1.55	0.03	20.45	5.91	1.70	0.02
17.90	5.67	1.56	0.03	20.50	5.91	1.70	0.02
17.95	5.68	1.56	0.03	20.55	5.92	1.70	0.02
18.00	5.68	1.56	0.03	20.60	5.92	1.71	0.02
18.05	5.69	1.56	0.03	20.65	5.92	1.71	0.02
18.10	5.69	1.57	0.03	20.70	5.93	1.71	0.02
18.15	5.70	1.57	0.03	20.75	5.93	1.71	0.02

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.94	1.72	0.02	23.40	6.13	1.84	0.02
20.85	5.94	1.72	0.02	23.45	6.13	1.84	0.02
20.90	5.94	1.72	0.02	23.50	6.14	1.84	0.02
20.95	5.95	1.72	0.02	23.55	6.14	1.84	0.02
21.00	5.95	1.73	0.02	23.60	6.14	1.85	0.02
21.05	5.96	1.73	0.02	23.65	6.15	1.85	0.02
21.10	5.96	1.73	0.02	23.70	6.15	1.85	0.02
21.15	5.96	1.73	0.02	23.75	6.15	1.85	0.02
21.20	5.97	1.74	0.02	23.80	6.16	1.85	0.02
21.25	5.97	1.74	0.02	23.85	6.16	1.86	0.02
21.30	5.98	1.74	0.02	23.90	6.16	1.86	0.02
21.35	5.98	1.74	0.02	23.95	6.17	1.86	0.02
21.40	5.98	1.75	0.02	24.00	**6.17**	**1.86**	0.02
21.45	5.99	1.75	0.02				
21.50	5.99	1.75	0.02				
21.55	6.00	1.75	0.02				
21.60	6.00	1.76	0.02				
21.65	6.00	1.76	0.02				
21.70	6.01	1.76	0.02				
21.75	6.01	1.76	0.02				
21.80	6.02	1.77	0.02				
21.85	6.02	1.77	0.02				
21.90	6.02	1.77	0.02				
21.95	6.03	1.77	0.02				
22.00	6.03	1.78	0.02				
22.05	6.03	1.78	0.02				
22.10	6.04	1.78	0.02				
22.15	6.04	1.78	0.02				
22.20	6.05	1.79	0.02				
22.25	6.05	1.79	0.02				
22.30	6.05	1.79	0.02				
22.35	6.06	1.79	0.02				
22.40	6.06	1.79	0.02				
22.45	6.06	1.80	0.02				
22.50	6.07	1.80	0.02				
22.55	6.07	1.80	0.02				
22.60	6.07	1.80	0.02				
22.65	6.08	1.81	0.02				
22.70	6.08	1.81	0.02				
22.75	6.09	1.81	0.02				
22.80	6.09	1.81	0.02				
22.85	6.09	1.81	0.02				
22.90	6.10	1.82	0.02				
22.95	6.10	1.82	0.02				
23.00	6.10	1.82	0.02				
23.05	6.11	1.82	0.02				
23.10	6.11	1.83	0.02				
23.15	6.11	1.83	0.02				
23.20	6.12	1.83	0.02				
23.25	6.12	1.83	0.02				
23.30	6.12	1.83	0.02				
23.35	6.13	1.84	0.02				

Summary for Subcatchment PDA2 IMP: PDA2 IMP

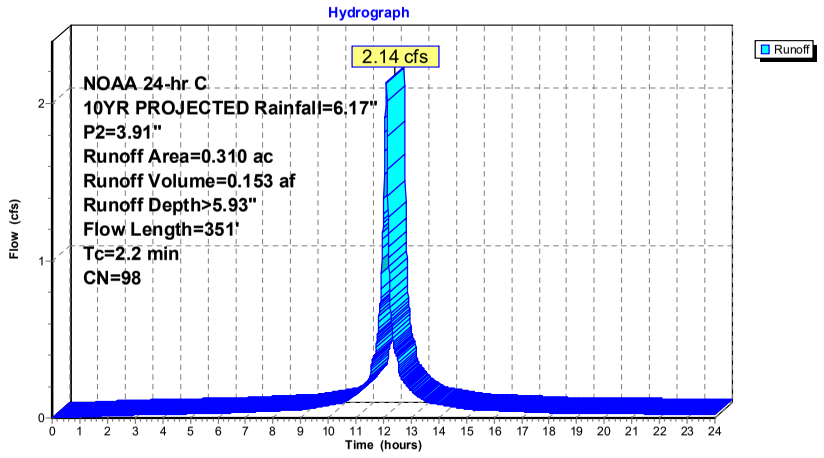
Runoff = 2.14 cfs @ 12.11 hrs, Volume= 0.153 af, Depth> 5.93"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR PROJECTED Rainfall=6.17", P2=3.91"

	Area (ac)	CN	Description
*	0.310	98	Impervious vehicular
	0.310		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	100	0.0180	1.46		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
1.1	251	0.0360	3.85		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
2.2	351	Total			

Subcatchment PDA2 IMP: PDA2 IMP



Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.06	0.02
0.05	0.00	0.00	0.00	2.65	0.19	0.06	0.02
0.10	0.01	0.00	0.00	2.70	0.19	0.07	0.02
0.15	0.01	0.00	0.00	2.75	0.20	0.07	0.02
0.20	0.01	0.00	0.00	2.80	0.20	0.07	0.02
0.25	0.02	0.00	0.00	2.85	0.21	0.07	0.02
0.30	0.02	0.00	0.00	2.90	0.21	0.08	0.02
0.35	0.02	0.00	0.00	2.95	0.21	0.08	0.02
0.40	0.03	0.00	0.00	3.00	0.22	0.08	0.02
0.45	0.03	0.00	0.00	3.05	0.22	0.09	0.02
0.50	0.03	0.00	0.00	3.10	0.23	0.09	0.02
0.55	0.04	0.00	0.00	3.15	0.23	0.09	0.02
0.60	0.04	0.00	0.00	3.20	0.23	0.09	0.02
0.65	0.04	0.00	0.00	3.25	0.24	0.10	0.02
0.70	0.05	0.00	0.00	3.30	0.24	0.10	0.02
0.75	0.05	0.00	0.00	3.35	0.25	0.10	0.02
0.80	0.05	0.00	0.00	3.40	0.25	0.11	0.02
0.85	0.06	0.00	0.00	3.45	0.25	0.11	0.02
0.90	0.06	0.00	0.00	3.50	0.26	0.11	0.02
0.95	0.06	0.00	0.00	3.55	0.26	0.12	0.02
1.00	0.07	0.00	0.00	3.60	0.27	0.12	0.02
1.05	0.07	0.00	0.00	3.65	0.27	0.12	0.02
1.10	0.07	0.00	0.01	3.70	0.28	0.13	0.02
1.15	0.08	0.01	0.01	3.75	0.28	0.13	0.02
1.20	0.08	0.01	0.01	3.80	0.28	0.13	0.02
1.25	0.08	0.01	0.01	3.85	0.29	0.14	0.02
1.30	0.09	0.01	0.01	3.90	0.29	0.14	0.02
1.35	0.09	0.01	0.01	3.95	0.30	0.14	0.02
1.40	0.10	0.01	0.01	4.00	0.30	0.15	0.02
1.45	0.10	0.01	0.01	4.05	0.31	0.15	0.02
1.50	0.10	0.01	0.01	4.10	0.31	0.15	0.02
1.55	0.11	0.02	0.01	4.15	0.32	0.16	0.02
1.60	0.11	0.02	0.01	4.20	0.32	0.16	0.02
1.65	0.11	0.02	0.01	4.25	0.32	0.16	0.02
1.70	0.12	0.02	0.01	4.30	0.33	0.17	0.02
1.75	0.12	0.02	0.01	4.35	0.33	0.17	0.02
1.80	0.12	0.02	0.01	4.40	0.34	0.18	0.02
1.85	0.13	0.03	0.01	4.45	0.34	0.18	0.02
1.90	0.13	0.03	0.01	4.50	0.35	0.18	0.02
1.95	0.14	0.03	0.01	4.55	0.35	0.19	0.02
2.00	0.14	0.03	0.01	4.60	0.36	0.19	0.02
2.05	0.14	0.03	0.01	4.65	0.36	0.19	0.02
2.10	0.15	0.04	0.01	4.70	0.36	0.20	0.02
2.15	0.15	0.04	0.01	4.75	0.37	0.20	0.02
2.20	0.15	0.04	0.01	4.80	0.37	0.21	0.02
2.25	0.16	0.04	0.01	4.85	0.38	0.21	0.02
2.30	0.16	0.05	0.01	4.90	0.38	0.21	0.02
2.35	0.17	0.05	0.01	4.95	0.39	0.22	0.02
2.40	0.17	0.05	0.01	5.00	0.39	0.22	0.03
2.45	0.17	0.05	0.02	5.05	0.40	0.23	0.03
2.50	0.18	0.06	0.02	5.10	0.40	0.23	0.03
2.55	0.18	0.06	0.02	5.15	0.41	0.23	0.03

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.41	0.24	0.03	7.80	0.71	0.51	0.04
5.25	0.42	0.24	0.03	7.85	0.72	0.52	0.04
5.30	0.42	0.25	0.03	7.90	0.72	0.53	0.04
5.35	0.43	0.25	0.03	7.95	0.73	0.53	0.04
5.40	0.43	0.26	0.03	8.00	0.74	0.54	0.04
5.45	0.44	0.26	0.03	8.05	0.75	0.55	0.04
5.50	0.44	0.26	0.03	8.10	0.75	0.55	0.04
5.55	0.44	0.27	0.03	8.15	0.76	0.56	0.05
5.60	0.45	0.27	0.03	8.20	0.77	0.57	0.05
5.65	0.45	0.28	0.03	8.25	0.78	0.58	0.05
5.70	0.46	0.28	0.03	8.30	0.79	0.58	0.05
5.75	0.46	0.29	0.03	8.35	0.79	0.59	0.05
5.80	0.47	0.29	0.03	8.40	0.80	0.60	0.05
5.85	0.47	0.29	0.03	8.45	0.81	0.61	0.05
5.90	0.48	0.30	0.03	8.50	0.82	0.61	0.05
5.95	0.48	0.30	0.03	8.55	0.83	0.62	0.05
6.00	0.49	0.31	0.03	8.60	0.83	0.63	0.05
6.05	0.49	0.31	0.03	8.65	0.84	0.64	0.05
6.10	0.50	0.32	0.03	8.70	0.85	0.65	0.05
6.15	0.50	0.32	0.03	8.75	0.86	0.65	0.05
6.20	0.51	0.33	0.03	8.80	0.87	0.66	0.05
6.25	0.51	0.33	0.03	8.85	0.88	0.67	0.05
6.30	0.52	0.34	0.03	8.90	0.88	0.68	0.05
6.35	0.53	0.34	0.03	8.95	0.89	0.69	0.05
6.40	0.53	0.35	0.03	9.00	0.90	0.70	0.05
6.45	0.54	0.35	0.03	9.05	0.91	0.70	0.05
6.50	0.54	0.36	0.03	9.10	0.92	0.71	0.05
6.55	0.55	0.36	0.03	9.15	0.93	0.72	0.06
6.60	0.55	0.37	0.03	9.20	0.94	0.73	0.06
6.65	0.56	0.37	0.03	9.25	0.95	0.74	0.06
6.70	0.57	0.38	0.03	9.30	0.96	0.75	0.06
6.75	0.57	0.38	0.03	9.35	0.97	0.76	0.06
6.80	0.58	0.39	0.03	9.40	0.98	0.77	0.06
6.85	0.58	0.39	0.03	9.45	0.99	0.78	0.06
6.90	0.59	0.40	0.04	9.50	1.00	0.79	0.07
6.95	0.60	0.41	0.04	9.55	1.01	0.80	0.07
7.00	0.60	0.41	0.04	9.60	1.02	0.81	0.07
7.05	0.61	0.42	0.04	9.65	1.04	0.83	0.07
7.10	0.61	0.42	0.04	9.70	1.05	0.84	0.07
7.15	0.62	0.43	0.04	9.75	1.06	0.85	0.07
7.20	0.63	0.44	0.04	9.80	1.07	0.86	0.07
7.25	0.63	0.44	0.04	9.85	1.09	0.87	0.08
7.30	0.64	0.45	0.04	9.90	1.10	0.89	0.08
7.35	0.65	0.45	0.04	9.95	1.11	0.90	0.08
7.40	0.65	0.46	0.04	10.00	1.12	0.91	0.08
7.45	0.66	0.47	0.04	10.05	1.14	0.93	0.08
7.50	0.67	0.47	0.04	10.10	1.15	0.94	0.08
7.55	0.67	0.48	0.04	10.15	1.17	0.95	0.09
7.60	0.68	0.49	0.04	10.20	1.18	0.97	0.09
7.65	0.69	0.49	0.04	10.25	1.20	0.98	0.09
7.70	0.70	0.50	0.04	10.30	1.21	1.00	0.09
7.75	0.70	0.51	0.04	10.35	1.23	1.01	0.09

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.24	1.03	0.09	13.00	4.69	4.45	0.18
10.45	1.26	1.04	0.09	13.05	4.71	4.48	0.16
10.50	1.27	1.06	0.10	13.10	4.74	4.50	0.16
10.55	1.29	1.07	0.10	13.15	4.76	4.52	0.15
10.60	1.31	1.09	0.11	13.20	4.78	4.55	0.14
10.65	1.33	1.11	0.11	13.25	4.80	4.57	0.14
10.70	1.34	1.13	0.12	13.30	4.83	4.59	0.13
10.75	1.37	1.15	0.12	13.35	4.84	4.61	0.12
10.80	1.39	1.17	0.13	13.40	4.86	4.63	0.12
10.85	1.41	1.19	0.13	13.45	4.88	4.64	0.11
10.90	1.43	1.21	0.14	13.50	4.90	4.66	0.11
10.95	1.46	1.24	0.15	13.55	4.91	4.68	0.10
11.00	1.48	1.26	0.15	13.60	4.93	4.69	0.10
11.05	1.51	1.29	0.16	13.65	4.94	4.71	0.10
11.10	1.54	1.32	0.17	13.70	4.96	4.72	0.09
11.15	1.57	1.35	0.18	13.75	4.97	4.74	0.09
11.20	1.60	1.38	0.19	13.80	4.99	4.75	0.09
11.25	1.63	1.41	0.20	13.85	5.00	4.77	0.09
11.30	1.67	1.45	0.21	13.90	5.02	4.78	0.09
11.35	1.70	1.48	0.22	13.95	5.03	4.79	0.09
11.40	1.74	1.52	0.23	14.00	5.05	4.81	0.09
11.45	1.78	1.56	0.24	14.05	5.06	4.82	0.08
11.50	1.82	1.60	0.25	14.10	5.07	4.83	0.08
11.55	1.89	1.66	0.32	14.15	5.08	4.85	0.08
11.60	1.95	1.72	0.37	14.20	5.10	4.86	0.08
11.65	2.01	1.79	0.39	14.25	5.11	4.87	0.08
11.70	2.08	1.85	0.40	14.30	5.12	4.88	0.08
11.75	2.17	1.94	0.49	14.35	5.13	4.90	0.08
11.80	2.26	2.03	0.54	14.40	5.15	4.91	0.07
11.85	2.38	2.16	0.67	14.45	5.16	4.92	0.07
11.90	2.51	2.28	0.75	14.50	5.17	4.93	0.07
11.95	2.72	2.49	1.08	14.55	5.18	4.94	0.07
12.00	2.94	2.71	1.27	14.60	5.19	4.95	0.07
12.05	3.30	3.07	1.82	14.65	5.20	4.96	0.07
12.10	3.66	3.43	**2.12**	14.70	5.21	4.97	0.07
12.15	3.79	3.55	**1.41**	14.75	5.22	4.98	0.06
12.20	3.91	3.68	0.97	14.80	5.23	4.99	0.06
12.25	4.00	3.77	0.70	14.85	5.24	5.00	0.06
12.30	4.09	3.86	0.60	14.90	5.25	5.01	0.06
12.35	4.16	3.92	0.48	14.95	5.26	5.02	0.06
12.40	4.22	3.99	0.43	15.00	5.27	5.03	0.06
12.45	4.28	4.05	0.40	15.05	5.28	5.04	0.06
12.50	4.35	4.11	0.39	15.10	5.29	5.05	0.05
12.55	4.39	4.15	0.31	15.15	5.29	5.06	0.05
12.60	4.43	4.19	0.27	15.20	5.30	5.07	0.05
12.65	4.47	4.23	0.25	15.25	5.31	5.07	0.05
12.70	4.50	4.27	0.24	15.30	5.32	5.08	0.05
12.75	4.54	4.30	0.22	15.35	5.33	5.09	0.05
12.80	4.57	4.34	0.22	15.40	5.34	5.10	0.05
12.85	4.60	4.37	0.20	15.45	5.34	5.11	0.05
12.90	4.63	4.40	0.20	15.50	5.35	5.12	0.05
12.95	4.66	4.43	0.18	15.55	5.36	5.12	0.05

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.37	5.13	0.05	18.20	5.70	5.46	0.03
15.65	5.38	5.14	0.05	18.25	5.71	5.47	0.03
15.70	5.38	5.15	0.05	18.30	5.71	5.47	0.03
15.75	5.39	5.16	0.05	18.35	5.72	5.48	0.03
15.80	5.40	5.16	0.05	18.40	5.72	5.48	0.03
15.85	5.41	5.17	0.05	18.45	5.73	5.49	0.03
15.90	5.42	5.18	0.05	18.50	5.73	5.49	0.03
15.95	5.42	5.19	0.05	18.55	5.73	5.50	0.03
16.00	5.43	5.19	0.05	18.60	5.74	5.50	0.03
16.05	5.44	5.20	0.05	18.65	5.74	5.51	0.03
16.10	5.45	5.21	0.05	18.70	5.75	5.51	0.03
16.15	5.45	5.22	0.05	18.75	5.75	5.52	0.03
16.20	5.46	5.22	0.05	18.80	5.76	5.52	0.03
16.25	5.47	5.23	0.05	18.85	5.76	5.53	0.03
16.30	5.47	5.24	0.04	18.90	5.77	5.53	0.03
16.35	5.48	5.24	0.04	18.95	5.77	5.54	0.03
16.40	5.49	5.25	0.04	19.00	5.78	5.54	0.03
16.45	5.50	5.26	0.04	19.05	5.78	5.54	0.03
16.50	5.50	5.26	0.04	19.10	5.79	5.55	0.03
16.55	5.51	5.27	0.04	19.15	5.79	5.55	0.03
16.60	5.52	5.28	0.04	19.20	5.80	5.56	0.03
16.65	5.52	5.29	0.04	19.25	5.80	5.56	0.03
16.70	5.53	5.29	0.04	19.30	5.81	5.57	0.03
16.75	5.54	5.30	0.04	19.35	5.81	5.57	0.03
16.80	5.54	5.31	0.04	19.40	5.81	5.58	0.03
16.85	5.55	5.31	0.04	19.45	5.82	5.58	0.03
16.90	5.56	5.32	0.04	19.50	5.82	5.59	0.03
16.95	5.56	5.32	0.04	19.55	5.83	5.59	0.03
17.00	5.57	5.33	0.04	19.60	5.83	5.59	0.03
17.05	5.57	5.34	0.04	19.65	5.84	5.60	0.03
17.10	5.58	5.34	0.04	19.70	5.84	5.60	0.03
17.15	5.59	5.35	0.04	19.75	5.85	5.61	0.03
17.20	5.59	5.36	0.04	19.80	5.85	5.61	0.03
17.25	5.60	5.36	0.04	19.85	5.85	5.62	0.03
17.30	5.60	5.37	0.04	19.90	5.86	5.62	0.03
17.35	5.61	5.37	0.04	19.95	5.86	5.63	0.03
17.40	5.62	5.38	0.04	20.00	5.87	5.63	0.03
17.45	5.62	5.38	0.04	20.05	5.87	5.63	0.03
17.50	5.63	5.39	0.04	20.10	5.88	5.64	0.03
17.55	5.63	5.40	0.04	20.15	5.88	5.64	0.03
17.60	5.64	5.40	0.03	20.20	5.89	5.65	0.03
17.65	5.64	5.41	0.03	20.25	5.89	5.65	0.03
17.70	5.65	5.41	0.03	20.30	5.89	5.66	0.03
17.75	5.66	5.42	0.03	20.35	5.90	5.66	0.03
17.80	5.66	5.42	0.03	20.40	5.90	5.66	0.03
17.85	5.67	5.43	0.03	20.45	5.91	5.67	0.03
17.90	5.67	5.43	0.03	20.50	5.91	5.67	0.03
17.95	5.68	5.44	0.03	20.55	5.92	5.68	0.03
18.00	5.68	5.44	0.03	20.60	5.92	5.68	0.03
18.05	5.69	5.45	0.03	20.65	5.92	5.69	0.03
18.10	5.69	5.45	0.03	20.70	5.93	5.69	0.03
18.15	5.70	5.46	0.03	20.75	5.93	5.69	0.03

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.94	5.70	0.03	23.40	6.13	5.89	0.02
20.85	5.94	5.70	0.03	23.45	6.13	5.89	0.02
20.90	5.94	5.71	0.03	23.50	6.14	5.90	0.02
20.95	5.95	5.71	0.03	23.55	6.14	5.90	0.02
21.00	5.95	5.71	0.03	23.60	6.14	5.90	0.02
21.05	5.96	5.72	0.03	23.65	6.15	5.91	0.02
21.10	5.96	5.72	0.03	23.70	6.15	5.91	0.02
21.15	5.96	5.73	0.03	23.75	6.15	5.91	0.02
21.20	5.97	5.73	0.03	23.80	6.16	5.92	0.02
21.25	5.97	5.73	0.03	23.85	6.16	5.92	0.02
21.30	5.98	5.74	0.03	23.90	6.16	5.92	0.02
21.35	5.98	5.74	0.02	23.95	6.17	5.93	0.02
21.40	5.98	5.75	0.02	24.00	**6.17**	**5.93**	0.02
21.45	5.99	5.75	0.02				
21.50	5.99	5.75	0.02				
21.55	6.00	5.76	0.02				
21.60	6.00	5.76	0.02				
21.65	6.00	5.77	0.02				
21.70	6.01	5.77	0.02				
21.75	6.01	5.77	0.02				
21.80	6.02	5.78	0.02				
21.85	6.02	5.78	0.02				
21.90	6.02	5.78	0.02				
21.95	6.03	5.79	0.02				
22.00	6.03	5.79	0.02				
22.05	6.03	5.80	0.02				
22.10	6.04	5.80	0.02				
22.15	6.04	5.80	0.02				
22.20	6.05	5.81	0.02				
22.25	6.05	5.81	0.02				
22.30	6.05	5.81	0.02				
22.35	6.06	5.82	0.02				
22.40	6.06	5.82	0.02				
22.45	6.06	5.83	0.02				
22.50	6.07	5.83	0.02				
22.55	6.07	5.83	0.02				
22.60	6.07	5.84	0.02				
22.65	6.08	5.84	0.02				
22.70	6.08	5.84	0.02				
22.75	6.09	5.85	0.02				
22.80	6.09	5.85	0.02				
22.85	6.09	5.85	0.02				
22.90	6.10	5.86	0.02				
22.95	6.10	5.86	0.02				
23.00	6.10	5.86	0.02				
23.05	6.11	5.87	0.02				
23.10	6.11	5.87	0.02				
23.15	6.11	5.87	0.02				
23.20	6.12	5.88	0.02				
23.25	6.12	5.88	0.02				
23.30	6.12	5.88	0.02				
23.35	6.13	5.89	0.02				

Summary for Subcatchment PDA3 IMP: PDA3 IMP

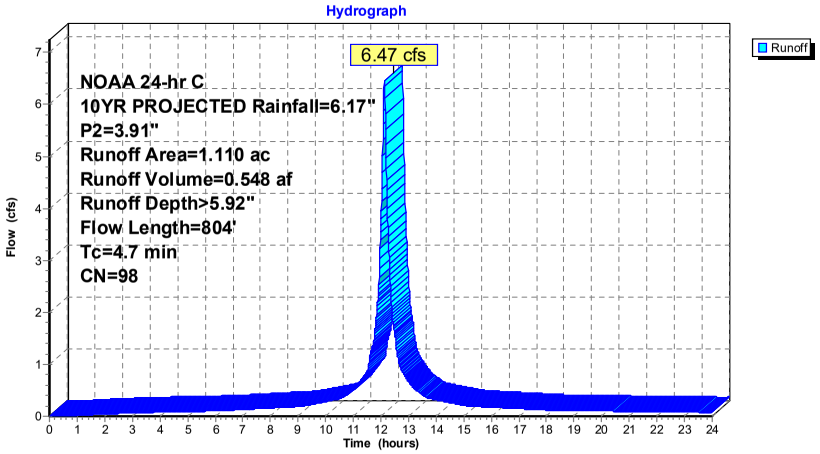
Runoff = 6.47 cfs @ 12.13 hrs, Volume= 0.548 af, Depth> 5.92"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR PROJECTED Rainfall=6.17", P2=3.91"

	Area (ac)	CN	Description
*	0.990	98	Impervious vehicular
*	0.120	98	Impervious non vehicular
	1.110	98	Weighted Average
	1.110		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	100	0.0071	1.00		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.7	172	0.0039	3.90	12.24	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
0.1	27	0.0120	6.84	21.48	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
1.6	439	0.0015	4.45	87.42	**Pipe Channel, RCP_Round 60"** 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.015
4.7	804	Total			

Subcatchment PDA3 IMP: PDA3 IMP



Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.06	0.06
0.05	0.00	0.00	0.00	2.65	0.19	0.06	0.06
0.10	0.01	0.00	0.00	2.70	0.19	0.07	0.06
0.15	0.01	0.00	0.00	2.75	0.20	0.07	0.06
0.20	0.01	0.00	0.00	2.80	0.20	0.07	0.06
0.25	0.02	0.00	0.00	2.85	0.21	0.07	0.06
0.30	0.02	0.00	0.00	2.90	0.21	0.08	0.06
0.35	0.02	0.00	0.00	2.95	0.21	0.08	0.06
0.40	0.03	0.00	0.00	3.00	0.22	0.08	0.06
0.45	0.03	0.00	0.00	3.05	0.22	0.09	0.06
0.50	0.03	0.00	0.00	3.10	0.23	0.09	0.06
0.55	0.04	0.00	0.00	3.15	0.23	0.09	0.07
0.60	0.04	0.00	0.00	3.20	0.23	0.09	0.07
0.65	0.04	0.00	0.00	3.25	0.24	0.10	0.07
0.70	0.05	0.00	0.00	3.30	0.24	0.10	0.07
0.75	0.05	0.00	0.00	3.35	0.25	0.10	0.07
0.80	0.05	0.00	0.00	3.40	0.25	0.11	0.07
0.85	0.06	0.00	0.01	3.45	0.25	0.11	0.07
0.90	0.06	0.00	0.01	3.50	0.26	0.11	0.07
0.95	0.06	0.00	0.01	3.55	0.26	0.12	0.07
1.00	0.07	0.00	0.01	3.60	0.27	0.12	0.07
1.05	0.07	0.00	0.01	3.65	0.27	0.12	0.07
1.10	0.07	0.00	0.02	3.70	0.28	0.13	0.07
1.15	0.08	0.01	0.02	3.75	0.28	0.13	0.07
1.20	0.08	0.01	0.02	3.80	0.28	0.13	0.07
1.25	0.08	0.01	0.02	3.85	0.29	0.14	0.08
1.30	0.09	0.01	0.02	3.90	0.29	0.14	0.08
1.35	0.09	0.01	0.02	3.95	0.30	0.14	0.08
1.40	0.10	0.01	0.03	4.00	0.30	0.15	0.08
1.45	0.10	0.01	0.03	4.05	0.31	0.15	0.08
1.50	0.10	0.01	0.03	4.10	0.31	0.15	0.08
1.55	0.11	0.02	0.03	4.15	0.32	0.16	0.08
1.60	0.11	0.02	0.03	4.20	0.32	0.16	0.08
1.65	0.11	0.02	0.03	4.25	0.32	0.16	0.08
1.70	0.12	0.02	0.04	4.30	0.33	0.17	0.08
1.75	0.12	0.02	0.04	4.35	0.33	0.17	0.08
1.80	0.12	0.02	0.04	4.40	0.34	0.18	0.08
1.85	0.13	0.03	0.04	4.45	0.34	0.18	0.08
1.90	0.13	0.03	0.04	4.50	0.35	0.18	0.08
1.95	0.14	0.03	0.04	4.55	0.35	0.19	0.08
2.00	0.14	0.03	0.04	4.60	0.36	0.19	0.08
2.05	0.14	0.03	0.04	4.65	0.36	0.19	0.09
2.10	0.15	0.04	0.05	4.70	0.36	0.20	0.09
2.15	0.15	0.04	0.05	4.75	0.37	0.20	0.09
2.20	0.15	0.04	0.05	4.80	0.37	0.21	0.09
2.25	0.16	0.04	0.05	4.85	0.38	0.21	0.09
2.30	0.16	0.05	0.05	4.90	0.38	0.21	0.09
2.35	0.17	0.05	0.05	4.95	0.39	0.22	0.09
2.40	0.17	0.05	0.05	5.00	0.39	0.22	0.09
2.45	0.17	0.05	0.05	5.05	0.40	0.23	0.09
2.50	0.18	0.06	0.05	5.10	0.40	0.23	0.09
2.55	0.18	0.06	0.05	5.15	0.41	0.23	0.09

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.41	0.24	0.09	7.80	0.71	0.51	0.15
5.25	0.42	0.24	0.09	7.85	0.72	0.52	0.15
5.30	0.42	0.25	0.09	7.90	0.72	0.53	0.15
5.35	0.43	0.25	0.09	7.95	0.73	0.53	0.15
5.40	0.43	0.26	0.09	8.00	0.74	0.54	0.16
5.45	0.44	0.26	0.09	8.05	0.75	0.55	0.16
5.50	0.44	0.26	0.09	8.10	0.75	0.55	0.16
5.55	0.44	0.27	0.09	8.15	0.76	0.56	0.16
5.60	0.45	0.27	0.10	8.20	0.77	0.57	0.16
5.65	0.45	0.28	0.10	8.25	0.78	0.58	0.16
5.70	0.46	0.28	0.10	8.30	0.79	0.58	0.16
5.75	0.46	0.29	0.10	8.35	0.79	0.59	0.17
5.80	0.47	0.29	0.10	8.40	0.80	0.60	0.17
5.85	0.47	0.29	0.10	8.45	0.81	0.61	0.17
5.90	0.48	0.30	0.10	8.50	0.82	0.61	0.17
5.95	0.48	0.30	0.10	8.55	0.83	0.62	0.17
6.00	0.49	0.31	0.10	8.60	0.83	0.63	0.17
6.05	0.49	0.31	0.10	8.65	0.84	0.64	0.17
6.10	0.50	0.32	0.10	8.70	0.85	0.65	0.18
6.15	0.50	0.32	0.10	8.75	0.86	0.65	0.18
6.20	0.51	0.33	0.10	8.80	0.87	0.66	0.18
6.25	0.51	0.33	0.11	8.85	0.88	0.67	0.18
6.30	0.52	0.34	0.11	8.90	0.88	0.68	0.18
6.35	0.53	0.34	0.11	8.95	0.89	0.69	0.18
6.40	0.53	0.35	0.11	9.00	0.90	0.70	0.18
6.45	0.54	0.35	0.11	9.05	0.91	0.70	0.19
6.50	0.54	0.36	0.11	9.10	0.92	0.71	0.19
6.55	0.55	0.36	0.11	9.15	0.93	0.72	0.20
6.60	0.55	0.37	0.12	9.20	0.94	0.73	0.20
6.65	0.56	0.37	0.12	9.25	0.95	0.74	0.20
6.70	0.57	0.38	0.12	9.30	0.96	0.75	0.21
6.75	0.57	0.38	0.12	9.35	0.97	0.76	0.22
6.80	0.58	0.39	0.12	9.40	0.98	0.77	0.22
6.85	0.58	0.39	0.12	9.45	0.99	0.78	0.23
6.90	0.59	0.40	0.12	9.50	1.00	0.79	0.23
6.95	0.60	0.41	0.13	9.55	1.01	0.80	0.24
7.00	0.60	0.41	0.13	9.60	1.02	0.81	0.24
7.05	0.61	0.42	0.13	9.65	1.04	0.83	0.25
7.10	0.61	0.42	0.13	9.70	1.05	0.84	0.25
7.15	0.62	0.43	0.13	9.75	1.06	0.85	0.26
7.20	0.63	0.44	0.13	9.80	1.07	0.86	0.26
7.25	0.63	0.44	0.13	9.85	1.09	0.87	0.27
7.30	0.64	0.45	0.14	9.90	1.10	0.89	0.27
7.35	0.65	0.45	0.14	9.95	1.11	0.90	0.28
7.40	0.65	0.46	0.14	10.00	1.12	0.91	0.28
7.45	0.66	0.47	0.14	10.05	1.14	0.93	0.29
7.50	0.67	0.47	0.14	10.10	1.15	0.94	0.29
7.55	0.67	0.48	0.14	10.15	1.17	0.95	0.30
7.60	0.68	0.49	0.14	10.20	1.18	0.97	0.30
7.65	0.69	0.49	0.15	10.25	1.20	0.98	0.31
7.70	0.70	0.50	0.15	10.30	1.21	1.00	0.31
7.75	0.70	0.51	0.15	10.35	1.23	1.01	0.32

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.24	1.03	0.32	13.00	4.69	4.45	0.67
10.45	1.26	1.04	0.33	13.05	4.71	4.48	0.64
10.50	1.27	1.06	0.33	13.10	4.74	4.50	0.60
10.55	1.29	1.07	0.34	13.15	4.76	4.52	0.57
10.60	1.31	1.09	0.36	13.20	4.78	4.55	0.54
10.65	1.33	1.11	0.38	13.25	4.80	4.57	0.52
10.70	1.34	1.13	0.39	13.30	4.83	4.59	0.50
10.75	1.37	1.15	0.41	13.35	4.84	4.61	0.48
10.80	1.39	1.17	0.43	13.40	4.86	4.63	0.46
10.85	1.41	1.19	0.45	13.45	4.88	4.64	0.44
10.90	1.43	1.21	0.47	13.50	4.90	4.66	0.42
10.95	1.46	1.24	0.49	13.55	4.91	4.68	0.40
11.00	1.48	1.26	0.51	13.60	4.93	4.69	0.38
11.05	1.51	1.29	0.54	13.65	4.94	4.71	0.36
11.10	1.54	1.32	0.57	13.70	4.96	4.72	0.35
11.15	1.57	1.35	0.60	13.75	4.97	4.74	0.34
11.20	1.60	1.38	0.64	13.80	4.99	4.75	0.34
11.25	1.63	1.41	0.67	13.85	5.00	4.77	0.33
11.30	1.67	1.45	0.71	13.90	5.02	4.78	0.32
11.35	1.70	1.48	0.74	13.95	5.03	4.79	0.32
11.40	1.74	1.52	0.78	14.00	5.05	4.81	0.31
11.45	1.78	1.56	0.82	14.05	5.06	4.82	0.31
11.50	1.82	1.60	0.85	14.10	5.07	4.83	0.30
11.55	1.89	1.66	0.95	14.15	5.08	4.85	0.30
11.60	1.95	1.72	1.13	14.20	5.10	4.86	0.29
11.65	2.01	1.79	1.25	14.25	5.11	4.87	0.29
11.70	2.08	1.85	1.34	14.30	5.12	4.88	0.28
11.75	2.17	1.94	1.48	14.35	5.13	4.90	0.28
11.80	2.26	2.03	1.70	14.40	5.15	4.91	0.27
11.85	2.38	2.16	1.96	14.45	5.16	4.92	0.27
11.90	2.51	2.28	2.31	14.50	5.17	4.93	0.26
11.95	2.72	2.49	2.84	14.55	5.18	4.94	0.26
12.00	2.94	2.71	3.68	14.60	5.19	4.95	0.25
12.05	3.30	3.07	4.69	14.65	5.20	4.96	0.25
12.10	3.66	3.43	**6.12**	14.70	5.21	4.97	0.24
12.15	3.79	3.55	**6.11**	14.75	5.22	4.98	0.24
12.20	3.91	3.68	4.75	14.80	5.23	4.99	0.23
12.25	4.00	3.77	3.81	14.85	5.24	5.00	0.23
12.30	4.09	3.86	3.05	14.90	5.25	5.01	0.22
12.35	4.16	3.92	2.50	14.95	5.26	5.02	0.22
12.40	4.22	3.99	2.03	15.00	5.27	5.03	0.21
12.45	4.28	4.05	1.75	15.05	5.28	5.04	0.21
12.50	4.35	4.11	1.58	15.10	5.29	5.05	0.20
12.55	4.39	4.15	1.41	15.15	5.29	5.06	0.20
12.60	4.43	4.19	1.18	15.20	5.30	5.07	0.19
12.65	4.47	4.23	1.04	15.25	5.31	5.07	0.19
12.70	4.50	4.27	0.95	15.30	5.32	5.08	0.19
12.75	4.54	4.30	0.89	15.35	5.33	5.09	0.19
12.80	4.57	4.34	0.83	15.40	5.34	5.10	0.19
12.85	4.60	4.37	0.79	15.45	5.34	5.11	0.19
12.90	4.63	4.40	0.75	15.50	5.35	5.12	0.18
12.95	4.66	4.43	0.71	15.55	5.36	5.12	0.18

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.37	5.13	0.18	18.20	5.70	5.46	0.11
15.65	5.38	5.14	0.18	18.25	5.71	5.47	0.11
15.70	5.38	5.15	0.18	18.30	5.71	5.47	0.11
15.75	5.39	5.16	0.18	18.35	5.72	5.48	0.11
15.80	5.40	5.16	0.18	18.40	5.72	5.48	0.11
15.85	5.41	5.17	0.17	18.45	5.73	5.49	0.11
15.90	5.42	5.18	0.17	18.50	5.73	5.49	0.11
15.95	5.42	5.19	0.17	18.55	5.73	5.50	0.11
16.00	5.43	5.19	0.17	18.60	5.74	5.50	0.11
16.05	5.44	5.20	0.17	18.65	5.74	5.51	0.11
16.10	5.45	5.21	0.17	18.70	5.75	5.51	0.11
16.15	5.45	5.22	0.17	18.75	5.75	5.52	0.11
16.20	5.46	5.22	0.17	18.80	5.76	5.52	0.11
16.25	5.47	5.23	0.16	18.85	5.76	5.53	0.11
16.30	5.47	5.24	0.16	18.90	5.77	5.53	0.11
16.35	5.48	5.24	0.16	18.95	5.77	5.54	0.11
16.40	5.49	5.25	0.16	19.00	5.78	5.54	0.11
16.45	5.50	5.26	0.16	19.05	5.78	5.54	0.10
16.50	5.50	5.26	0.16	19.10	5.79	5.55	0.10
16.55	5.51	5.27	0.16	19.15	5.79	5.55	0.10
16.60	5.52	5.28	0.15	19.20	5.80	5.56	0.10
16.65	5.52	5.29	0.15	19.25	5.80	5.56	0.10
16.70	5.53	5.29	0.15	19.30	5.81	5.57	0.10
16.75	5.54	5.30	0.15	19.35	5.81	5.57	0.10
16.80	5.54	5.31	0.15	19.40	5.81	5.58	0.10
16.85	5.55	5.31	0.15	19.45	5.82	5.58	0.10
16.90	5.56	5.32	0.15	19.50	5.82	5.59	0.10
16.95	5.56	5.32	0.14	19.55	5.83	5.59	0.10
17.00	5.57	5.33	0.14	19.60	5.83	5.59	0.10
17.05	5.57	5.34	0.14	19.65	5.84	5.60	0.10
17.10	5.58	5.34	0.14	19.70	5.84	5.60	0.10
17.15	5.59	5.35	0.14	19.75	5.85	5.61	0.10
17.20	5.59	5.36	0.14	19.80	5.85	5.61	0.10
17.25	5.60	5.36	0.14	19.85	5.85	5.62	0.10
17.30	5.60	5.37	0.13	19.90	5.86	5.62	0.10
17.35	5.61	5.37	0.13	19.95	5.86	5.63	0.10
17.40	5.62	5.38	0.13	20.00	5.87	5.63	0.10
17.45	5.62	5.38	0.13	20.05	5.87	5.63	0.10
17.50	5.63	5.39	0.13	20.10	5.88	5.64	0.10
17.55	5.63	5.40	0.13	20.15	5.88	5.64	0.10
17.60	5.64	5.40	0.13	20.20	5.89	5.65	0.10
17.65	5.64	5.41	0.13	20.25	5.89	5.65	0.10
17.70	5.65	5.41	0.12	20.30	5.89	5.66	0.10
17.75	5.66	5.42	0.12	20.35	5.90	5.66	0.10
17.80	5.66	5.42	0.12	20.40	5.90	5.66	0.10
17.85	5.67	5.43	0.12	20.45	5.91	5.67	0.10
17.90	5.67	5.43	0.12	20.50	5.91	5.67	0.09
17.95	5.68	5.44	0.12	20.55	5.92	5.68	0.09
18.00	5.68	5.44	0.12	20.60	5.92	5.68	0.09
18.05	5.69	5.45	0.11	20.65	5.92	5.69	0.09
18.10	5.69	5.45	0.11	20.70	5.93	5.69	0.09
18.15	5.70	5.46	0.11	20.75	5.93	5.69	0.09

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.94	5.70	0.09	23.40	6.13	5.89	0.08
20.85	5.94	5.70	0.09	23.45	6.13	5.89	0.08
20.90	5.94	5.71	0.09	23.50	6.14	5.90	0.07
20.95	5.95	5.71	0.09	23.55	6.14	5.90	0.07
21.00	5.95	5.71	0.09	23.60	6.14	5.90	0.07
21.05	5.96	5.72	0.09	23.65	6.15	5.91	0.07
21.10	5.96	5.72	0.09	23.70	6.15	5.91	0.07
21.15	5.96	5.73	0.09	23.75	6.15	5.91	0.07
21.20	5.97	5.73	0.09	23.80	6.16	5.92	0.07
21.25	5.97	5.73	0.09	23.85	6.16	5.92	0.07
21.30	5.98	5.74	0.09	23.90	6.16	5.92	0.07
21.35	5.98	5.74	0.09	23.95	6.17	5.93	0.07
21.40	5.98	5.75	0.09	24.00	**6.17**	**5.93**	0.08
21.45	5.99	5.75	0.09				
21.50	5.99	5.75	0.09				
21.55	6.00	5.76	0.09				
21.60	6.00	5.76	0.09				
21.65	6.00	5.77	0.09				
21.70	6.01	5.77	0.09				
21.75	6.01	5.77	0.09				
21.80	6.02	5.78	0.09				
21.85	6.02	5.78	0.09				
21.90	6.02	5.78	0.09				
21.95	6.03	5.79	0.09				
22.00	6.03	5.79	0.08				
22.05	6.03	5.80	0.08				
22.10	6.04	5.80	0.08				
22.15	6.04	5.80	0.08				
22.20	6.05	5.81	0.08				
22.25	6.05	5.81	0.08				
22.30	6.05	5.81	0.08				
22.35	6.06	5.82	0.08				
22.40	6.06	5.82	0.08				
22.45	6.06	5.83	0.08				
22.50	6.07	5.83	0.08				
22.55	6.07	5.83	0.08				
22.60	6.07	5.84	0.08				
22.65	6.08	5.84	0.08				
22.70	6.08	5.84	0.08				
22.75	6.09	5.85	0.08				
22.80	6.09	5.85	0.08				
22.85	6.09	5.85	0.08				
22.90	6.10	5.86	0.08				
22.95	6.10	5.86	0.08				
23.00	6.10	5.86	0.08				
23.05	6.11	5.87	0.08				
23.10	6.11	5.87	0.08				
23.15	6.11	5.87	0.08				
23.20	6.12	5.88	0.08				
23.25	6.12	5.88	0.08				
23.30	6.12	5.88	0.08				
23.35	6.13	5.89	0.08				

Summary for Subcatchment PDA3 PERV: PDA3 PERV

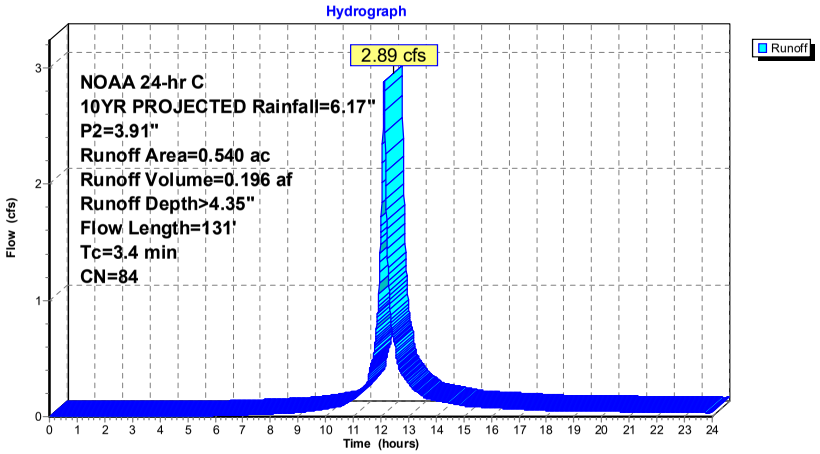
Runoff = 2.89 cfs @ 12.12 hrs, Volume= 0.196 af, Depth> 4.35"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR PROJECTED Rainfall=6.17", P2=3.91"

	Area (ac)	CN	Description
*	0.540	84	>75% Grass cover, Good, HSG D
	0.540		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.7	23	0.0200	0.14		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.1	42	0.0150	5.59	6.86	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
3.4	131	Total			

Subcatchment PDA3 PERV: PDA3 PERV



Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.19	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.19	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.20	0.00	0.00
0.20	0.01	0.00	0.00	2.80	0.20	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.21	0.00	0.00
0.30	0.02	0.00	0.00	2.90	0.21	0.00	0.00
0.35	0.02	0.00	0.00	2.95	0.21	0.00	0.00
0.40	0.03	0.00	0.00	3.00	0.22	0.00	0.00
0.45	0.03	0.00	0.00	3.05	0.22	0.00	0.00
0.50	0.03	0.00	0.00	3.10	0.23	0.00	0.00
0.55	0.04	0.00	0.00	3.15	0.23	0.00	0.00
0.60	0.04	0.00	0.00	3.20	0.23	0.00	0.00
0.65	0.04	0.00	0.00	3.25	0.24	0.00	0.00
0.70	0.05	0.00	0.00	3.30	0.24	0.00	0.00
0.75	0.05	0.00	0.00	3.35	0.25	0.00	0.00
0.80	0.05	0.00	0.00	3.40	0.25	0.00	0.00
0.85	0.06	0.00	0.00	3.45	0.25	0.00	0.00
0.90	0.06	0.00	0.00	3.50	0.26	0.00	0.00
0.95	0.06	0.00	0.00	3.55	0.26	0.00	0.00
1.00	0.07	0.00	0.00	3.60	0.27	0.00	0.00
1.05	0.07	0.00	0.00	3.65	0.27	0.00	0.00
1.10	0.07	0.00	0.00	3.70	0.28	0.00	0.00
1.15	0.08	0.00	0.00	3.75	0.28	0.00	0.00
1.20	0.08	0.00	0.00	3.80	0.28	0.00	0.00
1.25	0.08	0.00	0.00	3.85	0.29	0.00	0.00
1.30	0.09	0.00	0.00	3.90	0.29	0.00	0.00
1.35	0.09	0.00	0.00	3.95	0.30	0.00	0.00
1.40	0.10	0.00	0.00	4.00	0.30	0.00	0.00
1.45	0.10	0.00	0.00	4.05	0.31	0.00	0.00
1.50	0.10	0.00	0.00	4.10	0.31	0.00	0.00
1.55	0.11	0.00	0.00	4.15	0.32	0.00	0.00
1.60	0.11	0.00	0.00	4.20	0.32	0.00	0.00
1.65	0.11	0.00	0.00	4.25	0.32	0.00	0.00
1.70	0.12	0.00	0.00	4.30	0.33	0.00	0.00
1.75	0.12	0.00	0.00	4.35	0.33	0.00	0.00
1.80	0.12	0.00	0.00	4.40	0.34	0.00	0.00
1.85	0.13	0.00	0.00	4.45	0.34	0.00	0.00
1.90	0.13	0.00	0.00	4.50	0.35	0.00	0.00
1.95	0.14	0.00	0.00	4.55	0.35	0.00	0.00
2.00	0.14	0.00	0.00	4.60	0.36	0.00	0.00
2.05	0.14	0.00	0.00	4.65	0.36	0.00	0.00
2.10	0.15	0.00	0.00	4.70	0.36	0.00	0.00
2.15	0.15	0.00	0.00	4.75	0.37	0.00	0.00
2.20	0.15	0.00	0.00	4.80	0.37	0.00	0.00
2.25	0.16	0.00	0.00	4.85	0.38	0.00	0.00
2.30	0.16	0.00	0.00	4.90	0.38	0.00	0.00
2.35	0.17	0.00	0.00	4.95	0.39	0.00	0.00
2.40	0.17	0.00	0.00	5.00	0.39	0.00	0.00
2.45	0.17	0.00	0.00	5.05	0.40	0.00	0.00
2.50	0.18	0.00	0.00	5.10	0.40	0.00	0.00
2.55	0.18	0.00	0.00	5.15	0.41	0.00	0.00

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.41	0.00	0.00	7.80	0.71	0.05	0.02
5.25	0.42	0.00	0.00	7.85	0.72	0.05	0.02
5.30	0.42	0.00	0.00	7.90	0.72	0.05	0.02
5.35	0.43	0.00	0.00	7.95	0.73	0.05	0.02
5.40	0.43	0.00	0.00	8.00	0.74	0.06	0.02
5.45	0.44	0.00	0.00	8.05	0.75	0.06	0.02
5.50	0.44	0.00	0.00	8.10	0.75	0.06	0.02
5.55	0.44	0.00	0.00	8.15	0.76	0.06	0.02
5.60	0.45	0.00	0.00	8.20	0.77	0.07	0.03
5.65	0.45	0.00	0.00	8.25	0.78	0.07	0.03
5.70	0.46	0.00	0.00	8.30	0.79	0.07	0.03
5.75	0.46	0.00	0.00	8.35	0.79	0.07	0.03
5.80	0.47	0.00	0.00	8.40	0.80	0.08	0.03
5.85	0.47	0.00	0.00	8.45	0.81	0.08	0.03
5.90	0.48	0.00	0.00	8.50	0.82	0.08	0.03
5.95	0.48	0.01	0.00	8.55	0.83	0.08	0.03
6.00	0.49	0.01	0.01	8.60	0.83	0.09	0.03
6.05	0.49	0.01	0.01	8.65	0.84	0.09	0.03
6.10	0.50	0.01	0.01	8.70	0.85	0.09	0.03
6.15	0.50	0.01	0.01	8.75	0.86	0.10	0.03
6.20	0.51	0.01	0.01	8.80	0.87	0.10	0.03
6.25	0.51	0.01	0.01	8.85	0.88	0.10	0.03
6.30	0.52	0.01	0.01	8.90	0.88	0.11	0.03
6.35	0.53	0.01	0.01	8.95	0.89	0.11	0.03
6.40	0.53	0.01	0.01	9.00	0.90	0.11	0.04
6.45	0.54	0.01	0.01	9.05	0.91	0.12	0.04
6.50	0.54	0.01	0.01	9.10	0.92	0.12	0.04
6.55	0.55	0.01	0.01	9.15	0.93	0.12	0.04
6.60	0.55	0.01	0.01	9.20	0.94	0.13	0.04
6.65	0.56	0.02	0.01	9.25	0.95	0.13	0.04
6.70	0.57	0.02	0.01	9.30	0.96	0.13	0.04
6.75	0.57	0.02	0.01	9.35	0.97	0.14	0.04
6.80	0.58	0.02	0.01	9.40	0.98	0.14	0.05
6.85	0.58	0.02	0.01	9.45	0.99	0.15	0.05
6.90	0.59	0.02	0.01	9.50	1.00	0.15	0.05
6.95	0.60	0.02	0.01	9.55	1.01	0.16	0.05
7.00	0.60	0.02	0.01	9.60	1.02	0.16	0.05
7.05	0.61	0.02	0.01	9.65	1.04	0.17	0.05
7.10	0.61	0.03	0.01	9.70	1.05	0.17	0.06
7.15	0.62	0.03	0.01	9.75	1.06	0.18	0.06
7.20	0.63	0.03	0.01	9.80	1.07	0.18	0.06
7.25	0.63	0.03	0.01	9.85	1.09	0.19	0.06
7.30	0.64	0.03	0.02	9.90	1.10	0.20	0.06
7.35	0.65	0.03	0.02	9.95	1.11	0.20	0.07
7.40	0.65	0.03	0.02	10.00	1.12	0.21	0.07
7.45	0.66	0.04	0.02	10.05	1.14	0.22	0.07
7.50	0.67	0.04	0.02	10.10	1.15	0.22	0.07
7.55	0.67	0.04	0.02	10.15	1.17	0.23	0.07
7.60	0.68	0.04	0.02	10.20	1.18	0.24	0.08
7.65	0.69	0.04	0.02	10.25	1.20	0.24	0.08
7.70	0.70	0.04	0.02	10.30	1.21	0.25	0.08
7.75	0.70	0.05	0.02	10.35	1.23	0.26	0.08

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.24	0.27	0.08	13.00	4.69	2.99	0.29
10.45	1.26	0.28	0.09	13.05	4.71	3.01	0.27
10.50	1.27	0.28	0.09	13.10	4.74	3.03	0.25
10.55	1.29	0.29	0.09	13.15	4.76	3.05	0.24
10.60	1.31	0.30	0.10	13.20	4.78	3.07	0.23
10.65	1.33	0.31	0.10	13.25	4.80	3.09	0.22
10.70	1.34	0.32	0.11	13.30	4.83	3.11	0.21
10.75	1.37	0.34	0.12	13.35	4.84	3.13	0.20
10.80	1.39	0.35	0.12	13.40	4.86	3.15	0.20
10.85	1.41	0.36	0.13	13.45	4.88	3.16	0.19
10.90	1.43	0.37	0.14	13.50	4.90	3.18	0.18
10.95	1.46	0.39	0.15	13.55	4.91	3.19	0.17
11.00	1.48	0.40	0.15	13.60	4.93	3.21	0.16
11.05	1.51	0.42	0.16	13.65	4.94	3.22	0.16
11.10	1.54	0.44	0.17	13.70	4.96	3.23	0.15
11.15	1.57	0.46	0.19	13.75	4.97	3.25	0.15
11.20	1.60	0.47	0.20	13.80	4.99	3.26	0.15
11.25	1.63	0.50	0.21	13.85	5.00	3.27	0.15
11.30	1.67	0.52	0.23	13.90	5.02	3.29	0.14
11.35	1.70	0.54	0.24	13.95	5.03	3.30	0.14
11.40	1.74	0.57	0.26	14.00	5.05	3.31	0.14
11.45	1.78	0.59	0.27	14.05	5.06	3.32	0.14
11.50	1.82	0.62	0.28	14.10	5.07	3.34	0.13
11.55	1.89	0.66	0.34	14.15	5.08	3.35	0.13
11.60	1.95	0.71	0.41	14.20	5.10	3.36	0.13
11.65	2.01	0.75	0.45	14.25	5.11	3.37	0.13
11.70	2.08	0.80	0.48	14.30	5.12	3.38	0.13
11.75	2.17	0.87	0.56	14.35	5.13	3.39	0.12
11.80	2.26	0.93	0.65	14.40	5.15	3.40	0.12
11.85	2.38	1.03	0.79	14.45	5.16	3.41	0.12
11.90	2.51	1.12	0.92	14.50	5.17	3.42	0.12
11.95	2.72	1.29	1.24	14.55	5.18	3.44	0.11
12.00	2.94	1.47	1.59	14.60	5.19	3.45	0.11
12.05	3.30	1.77	2.19	14.65	5.20	3.45	0.11
12.10	3.66	2.07	**2.80**	14.70	5.21	3.46	0.11
12.15	3.79	2.18	**2.44**	14.75	5.22	3.47	0.10
12.20	3.91	2.29	1.78	14.80	5.23	3.48	0.10
12.25	4.00	2.37	1.36	14.85	5.24	3.49	0.10
12.30	4.09	2.45	1.08	14.90	5.25	3.50	0.10
12.35	4.16	2.51	0.88	14.95	5.26	3.51	0.10
12.40	4.22	2.57	0.74	15.00	5.27	3.52	0.09
12.45	4.28	2.62	0.67	15.05	5.28	3.53	0.09
12.50	4.35	2.68	0.63	15.10	5.29	3.53	0.09
12.55	4.39	2.72	0.55	15.15	5.29	3.54	0.09
12.60	4.43	2.75	0.46	15.20	5.30	3.55	0.09
12.65	4.47	2.79	0.42	15.25	5.31	3.56	0.09
12.70	4.50	2.82	0.39	15.30	5.32	3.56	0.08
12.75	4.54	2.85	0.37	15.35	5.33	3.57	0.08
12.80	4.57	2.88	0.35	15.40	5.34	3.58	0.08
12.85	4.60	2.91	0.33	15.45	5.34	3.59	0.08
12.90	4.63	2.94	0.32	15.50	5.35	3.59	0.08
12.95	4.66	2.96	0.30	15.55	5.36	3.60	0.08

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.37	3.61	0.08	18.20	5.70	3.92	0.05
15.65	5.38	3.62	0.08	18.25	5.71	3.92	0.05
15.70	5.38	3.62	0.08	18.30	5.71	3.93	0.05
15.75	5.39	3.63	0.08	18.35	5.72	3.93	0.05
15.80	5.40	3.64	0.08	18.40	5.72	3.94	0.05
15.85	5.41	3.65	0.08	18.45	5.73	3.94	0.05
15.90	5.42	3.65	0.08	18.50	5.73	3.94	0.05
15.95	5.42	3.66	0.08	18.55	5.73	3.95	0.05
16.00	5.43	3.67	0.08	18.60	5.74	3.95	0.05
16.05	5.44	3.67	0.08	18.65	5.74	3.96	0.05
16.10	5.45	3.68	0.08	18.70	5.75	3.96	0.05
16.15	5.45	3.69	0.07	18.75	5.75	3.97	0.05
16.20	5.46	3.69	0.07	18.80	5.76	3.97	0.05
16.25	5.47	3.70	0.07	18.85	5.76	3.98	0.05
16.30	5.47	3.71	0.07	18.90	5.77	3.98	0.05
16.35	5.48	3.71	0.07	18.95	5.77	3.98	0.05
16.40	5.49	3.72	0.07	19.00	5.78	3.99	0.05
16.45	5.50	3.73	0.07	19.05	5.78	3.99	0.05
16.50	5.50	3.73	0.07	19.10	5.79	4.00	0.05
16.55	5.51	3.74	0.07	19.15	5.79	4.00	0.05
16.60	5.52	3.75	0.07	19.20	5.80	4.01	0.05
16.65	5.52	3.75	0.07	19.25	5.80	4.01	0.05
16.70	5.53	3.76	0.07	19.30	5.81	4.01	0.05
16.75	5.54	3.76	0.07	19.35	5.81	4.02	0.05
16.80	5.54	3.77	0.07	19.40	5.81	4.02	0.05
16.85	5.55	3.78	0.07	19.45	5.82	4.03	0.05
16.90	5.56	3.78	0.07	19.50	5.82	4.03	0.05
16.95	5.56	3.79	0.06	19.55	5.83	4.04	0.05
17.00	5.57	3.79	0.06	19.60	5.83	4.04	0.05
17.05	5.57	3.80	0.06	19.65	5.84	4.04	0.05
17.10	5.58	3.81	0.06	19.70	5.84	4.05	0.05
17.15	5.59	3.81	0.06	19.75	5.85	4.05	0.05
17.20	5.59	3.82	0.06	19.80	5.85	4.06	0.05
17.25	5.60	3.82	0.06	19.85	5.85	4.06	0.05
17.30	5.60	3.83	0.06	19.90	5.86	4.06	0.05
17.35	5.61	3.83	0.06	19.95	5.86	4.07	0.04
17.40	5.62	3.84	0.06	20.00	5.87	4.07	0.04
17.45	5.62	3.84	0.06	20.05	5.87	4.08	0.04
17.50	5.63	3.85	0.06	20.10	5.88	4.08	0.04
17.55	5.63	3.85	0.06	20.15	5.88	4.09	0.04
17.60	5.64	3.86	0.06	20.20	5.89	4.09	0.04
17.65	5.64	3.86	0.06	20.25	5.89	4.09	0.04
17.70	5.65	3.87	0.06	20.30	5.89	4.10	0.04
17.75	5.66	3.87	0.06	20.35	5.90	4.10	0.04
17.80	5.66	3.88	0.05	20.40	5.90	4.11	0.04
17.85	5.67	3.88	0.05	20.45	5.91	4.11	0.04
17.90	5.67	3.89	0.05	20.50	5.91	4.11	0.04
17.95	5.68	3.89	0.05	20.55	5.92	4.12	0.04
18.00	5.68	3.90	0.05	20.60	5.92	4.12	0.04
18.05	5.69	3.90	0.05	20.65	5.92	4.12	0.04
18.10	5.69	3.91	0.05	20.70	5.93	4.13	0.04
18.15	5.70	3.91	0.05	20.75	5.93	4.13	0.04

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.94	4.14	0.04	23.40	6.13	4.32	0.03
20.85	5.94	4.14	0.04	23.45	6.13	4.32	0.03
20.90	5.94	4.14	0.04	23.50	6.14	4.32	0.03
20.95	5.95	4.15	0.04	23.55	6.14	4.33	0.03
21.00	5.95	4.15	0.04	23.60	6.14	4.33	0.03
21.05	5.96	4.16	0.04	23.65	6.15	4.33	0.03
21.10	5.96	4.16	0.04	23.70	6.15	4.34	0.03
21.15	5.96	4.16	0.04	23.75	6.15	4.34	0.03
21.20	5.97	4.17	0.04	23.80	6.16	4.34	0.03
21.25	5.97	4.17	0.04	23.85	6.16	4.35	0.03
21.30	5.98	4.17	0.04	23.90	6.16	4.35	0.03
21.35	5.98	4.18	0.04	23.95	6.17	4.35	0.04
21.40	5.98	4.18	0.04	24.00	**6.17**	**4.36**	0.04
21.45	5.99	4.19	0.04				
21.50	5.99	4.19	0.04				
21.55	6.00	4.19	0.04				
21.60	6.00	4.20	0.04				
21.65	6.00	4.20	0.04				
21.70	6.01	4.20	0.04				
21.75	6.01	4.21	0.04				
21.80	6.02	4.21	0.04				
21.85	6.02	4.21	0.04				
21.90	6.02	4.22	0.04				
21.95	6.03	4.22	0.04				
22.00	6.03	4.23	0.04				
22.05	6.03	4.23	0.04				
22.10	6.04	4.23	0.04				
22.15	6.04	4.24	0.04				
22.20	6.05	4.24	0.04				
22.25	6.05	4.24	0.04				
22.30	6.05	4.25	0.04				
22.35	6.06	4.25	0.04				
22.40	6.06	4.25	0.04				
22.45	6.06	4.26	0.04				
22.50	6.07	4.26	0.04				
22.55	6.07	4.26	0.04				
22.60	6.07	4.27	0.04				
22.65	6.08	4.27	0.04				
22.70	6.08	4.27	0.04				
22.75	6.09	4.28	0.04				
22.80	6.09	4.28	0.04				
22.85	6.09	4.28	0.04				
22.90	6.10	4.29	0.04				
22.95	6.10	4.29	0.04				
23.00	6.10	4.29	0.04				
23.05	6.11	4.30	0.04				
23.10	6.11	4.30	0.04				
23.15	6.11	4.30	0.03				
23.20	6.12	4.31	0.03				
23.25	6.12	4.31	0.03				
23.30	6.12	4.31	0.03				
23.35	6.13	4.31	0.03				

Summary for Subcatchment PDA4 IMP: PDA4 IMP

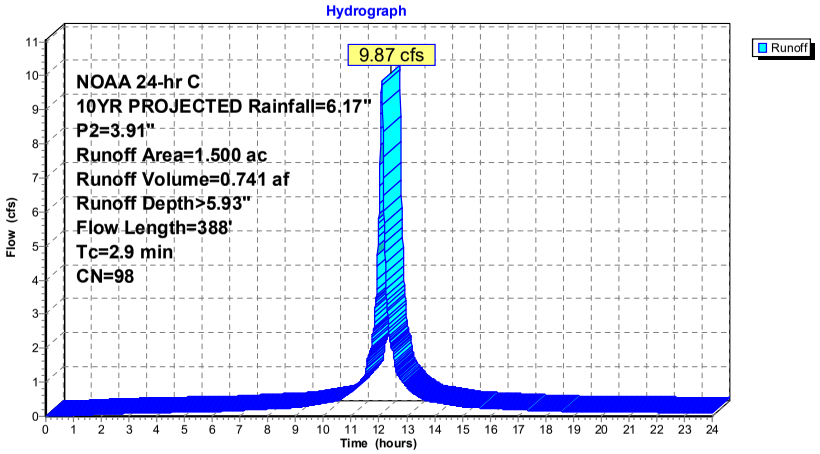
Runoff = 9.87 cfs @ 12.11 hrs, Volume= 0.741 af, Depth> 5.93"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 10YR PROJECTED Rainfall=6.17", P2=3.91"

	Area (ac)	CN	Description
*	1.500	98	Impervious vehicular
	1.500		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0160	1.39		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	88	0.0150	2.49		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.5	100	0.0039	3.22	5.69	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.6	100	0.0020	2.79	8.77	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
2.9	388	Total			

Subcatchment PDA4 IMP: PDA4 IMP



Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.19	0.06	0.08
0.05	0.00	0.00	0.00	2.65	0.19	0.06	0.08
0.10	0.01	0.00	0.00	2.70	0.19	0.07	0.08
0.15	0.01	0.00	0.00	2.75	0.20	0.07	0.08
0.20	0.01	0.00	0.00	2.80	0.20	0.07	0.08
0.25	0.02	0.00	0.00	2.85	0.21	0.07	0.08
0.30	0.02	0.00	0.00	2.90	0.21	0.08	0.08
0.35	0.02	0.00	0.00	2.95	0.21	0.08	0.08
0.40	0.03	0.00	0.00	3.00	0.22	0.08	0.09
0.45	0.03	0.00	0.00	3.05	0.22	0.09	0.09
0.50	0.03	0.00	0.00	3.10	0.23	0.09	0.09
0.55	0.04	0.00	0.00	3.15	0.23	0.09	0.09
0.60	0.04	0.00	0.00	3.20	0.23	0.09	0.09
0.65	0.04	0.00	0.00	3.25	0.24	0.10	0.09
0.70	0.05	0.00	0.00	3.30	0.24	0.10	0.09
0.75	0.05	0.00	0.00	3.35	0.25	0.10	0.09
0.80	0.05	0.00	0.01	3.40	0.25	0.11	0.09
0.85	0.06	0.00	0.01	3.45	0.25	0.11	0.10
0.90	0.06	0.00	0.01	3.50	0.26	0.11	0.10
0.95	0.06	0.00	0.02	3.55	0.26	0.12	0.10
1.00	0.07	0.00	0.02	3.60	0.27	0.12	0.10
1.05	0.07	0.00	0.02	3.65	0.27	0.12	0.10
1.10	0.07	0.00	0.02	3.70	0.28	0.13	0.10
1.15	0.08	0.01	0.03	3.75	0.28	0.13	0.10
1.20	0.08	0.01	0.03	3.80	0.28	0.13	0.10
1.25	0.08	0.01	0.03	3.85	0.29	0.14	0.10
1.30	0.09	0.01	0.03	3.90	0.29	0.14	0.10
1.35	0.09	0.01	0.04	3.95	0.30	0.14	0.10
1.40	0.10	0.01	0.04	4.00	0.30	0.15	0.11
1.45	0.10	0.01	0.04	4.05	0.31	0.15	0.11
1.50	0.10	0.01	0.04	4.10	0.31	0.15	0.11
1.55	0.11	0.02	0.04	4.15	0.32	0.16	0.11
1.60	0.11	0.02	0.05	4.20	0.32	0.16	0.11
1.65	0.11	0.02	0.05	4.25	0.32	0.16	0.11
1.70	0.12	0.02	0.05	4.30	0.33	0.17	0.11
1.75	0.12	0.02	0.05	4.35	0.33	0.17	0.11
1.80	0.12	0.02	0.05	4.40	0.34	0.18	0.11
1.85	0.13	0.03	0.05	4.45	0.34	0.18	0.11
1.90	0.13	0.03	0.06	4.50	0.35	0.18	0.11
1.95	0.14	0.03	0.06	4.55	0.35	0.19	0.11
2.00	0.14	0.03	0.06	4.60	0.36	0.19	0.12
2.05	0.14	0.03	0.06	4.65	0.36	0.19	0.12
2.10	0.15	0.04	0.06	4.70	0.36	0.20	0.12
2.15	0.15	0.04	0.06	4.75	0.37	0.20	0.12
2.20	0.15	0.04	0.07	4.80	0.37	0.21	0.12
2.25	0.16	0.04	0.07	4.85	0.38	0.21	0.12
2.30	0.16	0.05	0.07	4.90	0.38	0.21	0.12
2.35	0.17	0.05	0.07	4.95	0.39	0.22	0.12
2.40	0.17	0.05	0.07	5.00	0.39	0.22	0.12
2.45	0.17	0.05	0.07	5.05	0.40	0.23	0.12
2.50	0.18	0.06	0.07	5.10	0.40	0.23	0.12
2.55	0.18	0.06	0.08	5.15	0.41	0.23	0.12

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.41	0.24	0.12	7.80	0.71	0.51	0.20
5.25	0.42	0.24	0.12	7.85	0.72	0.52	0.21
5.30	0.42	0.25	0.13	7.90	0.72	0.53	0.21
5.35	0.43	0.25	0.13	7.95	0.73	0.53	0.21
5.40	0.43	0.26	0.13	8.00	0.74	0.54	0.21
5.45	0.44	0.26	0.13	8.05	0.75	0.55	0.21
5.50	0.44	0.26	0.13	8.10	0.75	0.55	0.22
5.55	0.44	0.27	0.13	8.15	0.76	0.56	0.22
5.60	0.45	0.27	0.13	8.20	0.77	0.57	0.22
5.65	0.45	0.28	0.13	8.25	0.78	0.58	0.22
5.70	0.46	0.28	0.13	8.30	0.79	0.58	0.22
5.75	0.46	0.29	0.13	8.35	0.79	0.59	0.23
5.80	0.47	0.29	0.13	8.40	0.80	0.60	0.23
5.85	0.47	0.29	0.13	8.45	0.81	0.61	0.23
5.90	0.48	0.30	0.13	8.50	0.82	0.61	0.23
5.95	0.48	0.30	0.13	8.55	0.83	0.62	0.23
6.00	0.49	0.31	0.13	8.60	0.83	0.63	0.24
6.05	0.49	0.31	0.14	8.65	0.84	0.64	0.24
6.10	0.50	0.32	0.14	8.70	0.85	0.65	0.24
6.15	0.50	0.32	0.14	8.75	0.86	0.65	0.24
6.20	0.51	0.33	0.14	8.80	0.87	0.66	0.24
6.25	0.51	0.33	0.14	8.85	0.88	0.67	0.24
6.30	0.52	0.34	0.15	8.90	0.88	0.68	0.25
6.35	0.53	0.34	0.15	8.95	0.89	0.69	0.25
6.40	0.53	0.35	0.15	9.00	0.90	0.70	0.25
6.45	0.54	0.35	0.15	9.05	0.91	0.70	0.26
6.50	0.54	0.36	0.15	9.10	0.92	0.71	0.26
6.55	0.55	0.36	0.16	9.15	0.93	0.72	0.27
6.60	0.55	0.37	0.16	9.20	0.94	0.73	0.28
6.65	0.56	0.37	0.16	9.25	0.95	0.74	0.28
6.70	0.57	0.38	0.16	9.30	0.96	0.75	0.29
6.75	0.57	0.38	0.16	9.35	0.97	0.76	0.30
6.80	0.58	0.39	0.16	9.40	0.98	0.77	0.30
6.85	0.58	0.39	0.17	9.45	0.99	0.78	0.31
6.90	0.59	0.40	0.17	9.50	1.00	0.79	0.32
6.95	0.60	0.41	0.17	9.55	1.01	0.80	0.33
7.00	0.60	0.41	0.17	9.60	1.02	0.81	0.33
7.05	0.61	0.42	0.18	9.65	1.04	0.83	0.34
7.10	0.61	0.42	0.18	9.70	1.05	0.84	0.35
7.15	0.62	0.43	0.18	9.75	1.06	0.85	0.35
7.20	0.63	0.44	0.18	9.80	1.07	0.86	0.36
7.25	0.63	0.44	0.18	9.85	1.09	0.87	0.37
7.30	0.64	0.45	0.18	9.90	1.10	0.89	0.37
7.35	0.65	0.45	0.19	9.95	1.11	0.90	0.38
7.40	0.65	0.46	0.19	10.00	1.12	0.91	0.39
7.45	0.66	0.47	0.19	10.05	1.14	0.93	0.40
7.50	0.67	0.47	0.19	10.10	1.15	0.94	0.40
7.55	0.67	0.48	0.19	10.15	1.17	0.95	0.41
7.60	0.68	0.49	0.20	10.20	1.18	0.97	0.42
7.65	0.69	0.49	0.20	10.25	1.20	0.98	0.42
7.70	0.70	0.50	0.20	10.30	1.21	1.00	0.43
7.75	0.70	0.51	0.20	10.35	1.23	1.01	0.44

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.24	1.03	0.44	13.00	4.69	4.45	0.87
10.45	1.26	1.04	0.45	13.05	4.71	4.48	0.81
10.50	1.27	1.06	0.46	13.10	4.74	4.50	0.77
10.55	1.29	1.07	0.48	13.15	4.76	4.52	0.73
10.60	1.31	1.09	0.50	13.20	4.78	4.55	0.70
10.65	1.33	1.11	0.53	13.25	4.80	4.57	0.67
10.70	1.34	1.13	0.55	13.30	4.83	4.59	0.65
10.75	1.37	1.15	0.58	13.35	4.84	4.61	0.62
10.80	1.39	1.17	0.61	13.40	4.86	4.63	0.59
10.85	1.41	1.19	0.64	13.45	4.88	4.64	0.56
10.90	1.43	1.21	0.66	13.50	4.90	4.66	0.54
10.95	1.46	1.24	0.69	13.55	4.91	4.68	0.51
11.00	1.48	1.26	0.71	13.60	4.93	4.69	0.49
11.05	1.51	1.29	0.76	13.65	4.94	4.71	0.47
11.10	1.54	1.32	0.80	13.70	4.96	4.72	0.46
11.15	1.57	1.35	0.86	13.75	4.97	4.74	0.45
11.20	1.60	1.38	0.90	13.80	4.99	4.75	0.45
11.25	1.63	1.41	0.96	13.85	5.00	4.77	0.44
11.30	1.67	1.45	1.00	13.90	5.02	4.78	0.43
11.35	1.70	1.48	1.06	13.95	5.03	4.79	0.42
11.40	1.74	1.52	1.10	14.00	5.05	4.81	0.42
11.45	1.78	1.56	1.15	14.05	5.06	4.82	0.41
11.50	1.82	1.60	1.18	14.10	5.07	4.83	0.40
11.55	1.89	1.66	1.46	14.15	5.08	4.85	0.40
11.60	1.95	1.72	1.71	14.20	5.10	4.86	0.39
11.65	2.01	1.79	1.85	14.25	5.11	4.87	0.38
11.70	2.08	1.85	1.93	14.30	5.12	4.88	0.38
11.75	2.17	1.94	2.25	14.35	5.13	4.90	0.37
11.80	2.26	2.03	2.52	14.40	5.15	4.91	0.36
11.85	2.38	2.16	3.06	14.45	5.16	4.92	0.35
11.90	2.51	2.28	3.48	14.50	5.17	4.93	0.35
11.95	2.72	2.49	4.74	14.55	5.18	4.94	0.34
12.00	2.94	2.71	5.80	14.60	5.19	4.95	0.33
12.05	3.30	3.07	7.98	14.65	5.20	4.96	0.33
12.10	3.66	3.43	**9.73**	14.70	5.21	4.97	0.32
12.15	3.79	3.55	**7.62**	14.75	5.22	4.98	0.31
12.20	3.91	3.68	5.35	14.80	5.23	4.99	0.31
12.25	4.00	3.77	3.95	14.85	5.24	5.00	0.30
12.30	4.09	3.86	3.16	14.90	5.25	5.01	0.29
12.35	4.16	3.92	2.57	14.95	5.26	5.02	0.28
12.40	4.22	3.99	2.19	15.00	5.27	5.03	0.28
12.45	4.28	4.05	2.02	15.05	5.28	5.04	0.27
12.50	4.35	4.11	1.93	15.10	5.29	5.05	0.27
12.55	4.39	4.15	1.63	15.15	5.29	5.06	0.26
12.60	4.43	4.19	1.38	15.20	5.30	5.07	0.26
12.65	4.47	4.23	1.25	15.25	5.31	5.07	0.26
12.70	4.50	4.27	1.18	15.30	5.32	5.08	0.25
12.75	4.54	4.30	1.11	15.35	5.33	5.09	0.25
12.80	4.57	4.34	1.07	15.40	5.34	5.10	0.25
12.85	4.60	4.37	1.01	15.45	5.34	5.11	0.25
12.90	4.63	4.40	0.97	15.50	5.35	5.12	0.25
12.95	4.66	4.43	0.91	15.55	5.36	5.12	0.25

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	5.37	5.13	0.24	18.20	5.70	5.46	0.15
15.65	5.38	5.14	0.24	18.25	5.71	5.47	0.15
15.70	5.38	5.15	0.24	18.30	5.71	5.47	0.15
15.75	5.39	5.16	0.24	18.35	5.72	5.48	0.15
15.80	5.40	5.16	0.24	18.40	5.72	5.48	0.15
15.85	5.41	5.17	0.23	18.45	5.73	5.49	0.15
15.90	5.42	5.18	0.23	18.50	5.73	5.49	0.15
15.95	5.42	5.19	0.23	18.55	5.73	5.50	0.15
16.00	5.43	5.19	0.23	18.60	5.74	5.50	0.15
16.05	5.44	5.20	0.23	18.65	5.74	5.51	0.15
16.10	5.45	5.21	0.23	18.70	5.75	5.51	0.14
16.15	5.45	5.22	0.22	18.75	5.75	5.52	0.14
16.20	5.46	5.22	0.22	18.80	5.76	5.52	0.14
16.25	5.47	5.23	0.22	18.85	5.76	5.53	0.14
16.30	5.47	5.24	0.22	18.90	5.77	5.53	0.14
16.35	5.48	5.24	0.22	18.95	5.77	5.54	0.14
16.40	5.49	5.25	0.21	19.00	5.78	5.54	0.14
16.45	5.50	5.26	0.21	19.05	5.78	5.54	0.14
16.50	5.50	5.26	0.21	19.10	5.79	5.55	0.14
16.55	5.51	5.27	0.21	19.15	5.79	5.55	0.14
16.60	5.52	5.28	0.21	19.20	5.80	5.56	0.14
16.65	5.52	5.29	0.20	19.25	5.80	5.56	0.14
16.70	5.53	5.29	0.20	19.30	5.81	5.57	0.14
16.75	5.54	5.30	0.20	19.35	5.81	5.57	0.14
16.80	5.54	5.31	0.20	19.40	5.81	5.58	0.14
16.85	5.55	5.31	0.20	19.45	5.82	5.58	0.14
16.90	5.56	5.32	0.20	19.50	5.82	5.59	0.14
16.95	5.56	5.32	0.19	19.55	5.83	5.59	0.14
17.00	5.57	5.33	0.19	19.60	5.83	5.59	0.14
17.05	5.57	5.34	0.19	19.65	5.84	5.60	0.14
17.10	5.58	5.34	0.19	19.70	5.84	5.60	0.14
17.15	5.59	5.35	0.19	19.75	5.85	5.61	0.14
17.20	5.59	5.36	0.18	19.80	5.85	5.61	0.14
17.25	5.60	5.36	0.18	19.85	5.85	5.62	0.13
17.30	5.60	5.37	0.18	19.90	5.86	5.62	0.13
17.35	5.61	5.37	0.18	19.95	5.86	5.63	0.13
17.40	5.62	5.38	0.18	20.00	5.87	5.63	0.13
17.45	5.62	5.38	0.17	20.05	5.87	5.63	0.13
17.50	5.63	5.39	0.17	20.10	5.88	5.64	0.13
17.55	5.63	5.40	0.17	20.15	5.88	5.64	0.13
17.60	5.64	5.40	0.17	20.20	5.89	5.65	0.13
17.65	5.64	5.41	0.17	20.25	5.89	5.65	0.13
17.70	5.65	5.41	0.17	20.30	5.89	5.66	0.13
17.75	5.66	5.42	0.16	20.35	5.90	5.66	0.13
17.80	5.66	5.42	0.16	20.40	5.90	5.66	0.13
17.85	5.67	5.43	0.16	20.45	5.91	5.67	0.13
17.90	5.67	5.43	0.16	20.50	5.91	5.67	0.13
17.95	5.68	5.44	0.16	20.55	5.92	5.68	0.13
18.00	5.68	5.44	0.15	20.60	5.92	5.68	0.13
18.05	5.69	5.45	0.15	20.65	5.92	5.69	0.13
18.10	5.69	5.45	0.15	20.70	5.93	5.69	0.13
18.15	5.70	5.46	0.15	20.75	5.93	5.69	0.13

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

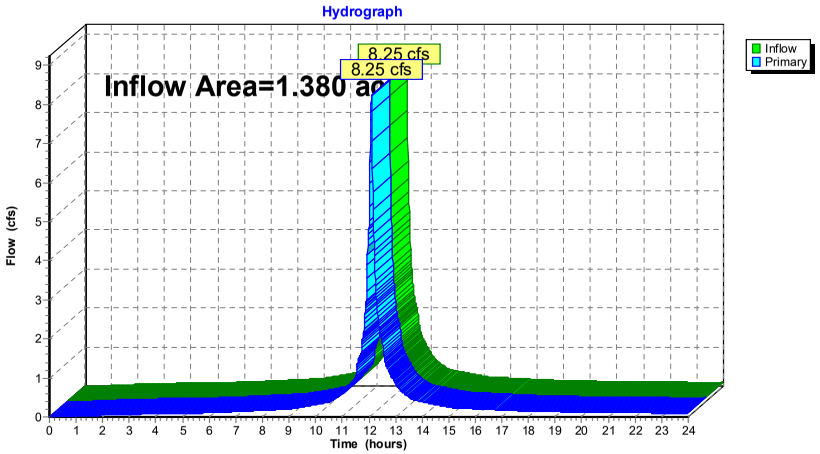
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	5.94	5.70	0.13	23.40	6.13	5.89	0.10
20.85	5.94	5.70	0.12	23.45	6.13	5.89	0.10
20.90	5.94	5.71	0.12	23.50	6.14	5.90	0.10
20.95	5.95	5.71	0.12	23.55	6.14	5.90	0.10
21.00	5.95	5.71	0.12	23.60	6.14	5.90	0.10
21.05	5.96	5.72	0.12	23.65	6.15	5.91	0.10
21.10	5.96	5.72	0.12	23.70	6.15	5.91	0.10
21.15	5.96	5.73	0.12	23.75	6.15	5.91	0.10
21.20	5.97	5.73	0.12	23.80	6.16	5.92	0.10
21.25	5.97	5.73	0.12	23.85	6.16	5.92	0.10
21.30	5.98	5.74	0.12	23.90	6.16	5.92	0.10
21.35	5.98	5.74	0.12	23.95	6.17	5.93	0.11
21.40	5.98	5.75	0.12	24.00	**6.17**	**5.93**	0.11
21.45	5.99	5.75	0.12				
21.50	5.99	5.75	0.12				
21.55	6.00	5.76	0.12				
21.60	6.00	5.76	0.12				
21.65	6.00	5.77	0.12				
21.70	6.01	5.77	0.12				
21.75	6.01	5.77	0.12				
21.80	6.02	5.78	0.12				
21.85	6.02	5.78	0.12				
21.90	6.02	5.78	0.12				
21.95	6.03	5.79	0.11				
22.00	6.03	5.79	0.11				
22.05	6.03	5.80	0.11				
22.10	6.04	5.80	0.11				
22.15	6.04	5.80	0.11				
22.20	6.05	5.81	0.11				
22.25	6.05	5.81	0.11				
22.30	6.05	5.81	0.11				
22.35	6.06	5.82	0.11				
22.40	6.06	5.82	0.11				
22.45	6.06	5.83	0.11				
22.50	6.07	5.83	0.11				
22.55	6.07	5.83	0.11				
22.60	6.07	5.84	0.11				
22.65	6.08	5.84	0.11				
22.70	6.08	5.84	0.11				
22.75	6.09	5.85	0.11				
22.80	6.09	5.85	0.11				
22.85	6.09	5.85	0.11				
22.90	6.10	5.86	0.11				
22.95	6.10	5.86	0.11				
23.00	6.10	5.86	0.11				
23.05	6.11	5.87	0.10				
23.10	6.11	5.87	0.10				
23.15	6.11	5.87	0.10				
23.20	6.12	5.88	0.10				
23.25	6.12	5.88	0.10				
23.30	6.12	5.88	0.10				
23.35	6.13	5.89	0.10				

Summary for Link P1A: P1A

Inflow Area = 1.380 ac, 80.43% Impervious, Inflow Depth > 5.62" for 10YR PROJECTED event
Inflow = 8.25 cfs @ 12.11 hrs, Volume= 0.646 af
Primary = 8.25 cfs @ 12.11 hrs, Volume= 0.646 af, Atten= 0%, Lag= 0.0 min
Routed to Link PPOI-1 : PPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link P1A: P1A



Hydrograph for Link P1A: P1A

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.06	0.00	0.06
0.05	0.00	0.00	0.00	2.65	0.06	0.00	0.06
0.10	0.00	0.00	0.00	2.70	0.06	0.00	0.06
0.15	0.00	0.00	0.00	2.75	0.06	0.00	0.06
0.20	0.00	0.00	0.00	2.80	0.06	0.00	0.06
0.25	0.00	0.00	0.00	2.85	0.06	0.00	0.06
0.30	0.00	0.00	0.00	2.90	0.06	0.00	0.06
0.35	0.00	0.00	0.00	2.95	0.06	0.00	0.06
0.40	0.00	0.00	0.00	3.00	0.06	0.00	0.06
0.45	0.00	0.00	0.00	3.05	0.06	0.00	0.06
0.50	0.00	0.00	0.00	3.10	0.07	0.00	0.07
0.55	0.00	0.00	0.00	3.15	0.07	0.00	0.07
0.60	0.00	0.00	0.00	3.20	0.07	0.00	0.07
0.65	0.00	0.00	0.00	3.25	0.07	0.00	0.07
0.70	0.00	0.00	0.00	3.30	0.07	0.00	0.07
0.75	0.00	0.00	0.00	3.35	0.07	0.00	0.07
0.80	0.01	0.00	0.01	3.40	0.07	0.00	0.07
0.85	0.01	0.00	0.01	3.45	0.07	0.00	0.07
0.90	0.01	0.00	0.01	3.50	0.07	0.00	0.07
0.95	0.01	0.00	0.01	3.55	0.07	0.00	0.07
1.00	0.01	0.00	0.01	3.60	0.07	0.00	0.07
1.05	0.02	0.00	0.02	3.65	0.07	0.00	0.07
1.10	0.02	0.00	0.02	3.70	0.07	0.00	0.07
1.15	0.02	0.00	0.02	3.75	0.07	0.00	0.07
1.20	0.02	0.00	0.02	3.80	0.08	0.00	0.08
1.25	0.02	0.00	0.02	3.85	0.08	0.00	0.08
1.30	0.03	0.00	0.03	3.90	0.08	0.00	0.08
1.35	0.03	0.00	0.03	3.95	0.08	0.00	0.08
1.40	0.03	0.00	0.03	4.00	0.08	0.00	0.08
1.45	0.03	0.00	0.03	4.05	0.08	0.00	0.08
1.50	0.03	0.00	0.03	4.10	0.08	0.00	0.08
1.55	0.03	0.00	0.03	4.15	0.08	0.00	0.08
1.60	0.03	0.00	0.03	4.20	0.08	0.00	0.08
1.65	0.04	0.00	0.04	4.25	0.08	0.00	0.08
1.70	0.04	0.00	0.04	4.30	0.08	0.00	0.08
1.75	0.04	0.00	0.04	4.35	0.08	0.00	0.08
1.80	0.04	0.00	0.04	4.40	0.08	0.00	0.08
1.85	0.04	0.00	0.04	4.45	0.08	0.00	0.08
1.90	0.04	0.00	0.04	4.50	0.08	0.00	0.08
1.95	0.04	0.00	0.04	4.55	0.08	0.00	0.08
2.00	0.04	0.00	0.04	4.60	0.09	0.00	0.09
2.05	0.05	0.00	0.05	4.65	0.09	0.00	0.09
2.10	0.05	0.00	0.05	4.70	0.09	0.00	0.09
2.15	0.05	0.00	0.05	4.75	0.09	0.00	0.09
2.20	0.05	0.00	0.05	4.80	0.09	0.00	0.09
2.25	0.05	0.00	0.05	4.85	0.09	0.00	0.09
2.30	0.05	0.00	0.05	4.90	0.09	0.00	0.09
2.35	0.05	0.00	0.05	4.95	0.09	0.00	0.09
2.40	0.05	0.00	0.05	5.00	0.09	0.00	0.09
2.45	0.05	0.00	0.05	5.05	0.09	0.00	0.09
2.50	0.05	0.00	0.05	5.10	0.09	0.00	0.09
2.55	0.06	0.00	0.06	5.15	0.09	0.00	0.09

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.09	0.00	0.09	7.80	0.16	0.00	0.16
5.25	0.09	0.00	0.09	7.85	0.16	0.00	0.16
5.30	0.09	0.00	0.09	7.90	0.16	0.00	0.16
5.35	0.09	0.00	0.09	7.95	0.17	0.00	0.17
5.40	0.09	0.00	0.09	8.00	0.17	0.00	0.17
5.45	0.10	0.00	0.10	8.05	0.17	0.00	0.17
5.50	0.10	0.00	0.10	8.10	0.17	0.00	0.17
5.55	0.10	0.00	0.10	8.15	0.17	0.00	0.17
5.60	0.10	0.00	0.10	8.20	0.17	0.00	0.17
5.65	0.10	0.00	0.10	8.25	0.18	0.00	0.18
5.70	0.10	0.00	0.10	8.30	0.18	0.00	0.18
5.75	0.10	0.00	0.10	8.35	0.18	0.00	0.18
5.80	0.10	0.00	0.10	8.40	0.18	0.00	0.18
5.85	0.10	0.00	0.10	8.45	0.18	0.00	0.18
5.90	0.10	0.00	0.10	8.50	0.18	0.00	0.18
5.95	0.10	0.00	0.10	8.55	0.19	0.00	0.19
6.00	0.10	0.00	0.10	8.60	0.19	0.00	0.19
6.05	0.10	0.00	0.10	8.65	0.19	0.00	0.19
6.10	0.10	0.00	0.10	8.70	0.19	0.00	0.19
6.15	0.11	0.00	0.11	8.75	0.19	0.00	0.19
6.20	0.11	0.00	0.11	8.80	0.19	0.00	0.19
6.25	0.11	0.00	0.11	8.85	0.20	0.00	0.20
6.30	0.11	0.00	0.11	8.90	0.20	0.00	0.20
6.35	0.11	0.00	0.11	8.95	0.20	0.00	0.20
6.40	0.11	0.00	0.11	9.00	0.20	0.00	0.20
6.45	0.12	0.00	0.12	9.05	0.21	0.00	0.21
6.50	0.12	0.00	0.12	9.10	0.21	0.00	0.21
6.55	0.12	0.00	0.12	9.15	0.22	0.00	0.22
6.60	0.12	0.00	0.12	9.20	0.22	0.00	0.22
6.65	0.12	0.00	0.12	9.25	0.23	0.00	0.23
6.70	0.12	0.00	0.12	9.30	0.23	0.00	0.23
6.75	0.13	0.00	0.13	9.35	0.24	0.00	0.24
6.80	0.13	0.00	0.13	9.40	0.25	0.00	0.25
6.85	0.13	0.00	0.13	9.45	0.25	0.00	0.25
6.90	0.13	0.00	0.13	9.50	0.26	0.00	0.26
6.95	0.13	0.00	0.13	9.55	0.27	0.00	0.27
7.00	0.13	0.00	0.13	9.60	0.27	0.00	0.27
7.05	0.14	0.00	0.14	9.65	0.28	0.00	0.28
7.10	0.14	0.00	0.14	9.70	0.28	0.00	0.28
7.15	0.14	0.00	0.14	9.75	0.29	0.00	0.29
7.20	0.14	0.00	0.14	9.80	0.29	0.00	0.29
7.25	0.14	0.00	0.14	9.85	0.30	0.00	0.30
7.30	0.14	0.00	0.14	9.90	0.31	0.00	0.31
7.35	0.15	0.00	0.15	9.95	0.31	0.00	0.31
7.40	0.15	0.00	0.15	10.00	0.32	0.00	0.32
7.45	0.15	0.00	0.15	10.05	0.32	0.00	0.32
7.50	0.15	0.00	0.15	10.10	0.33	0.00	0.33
7.55	0.15	0.00	0.15	10.15	0.34	0.00	0.34
7.60	0.15	0.00	0.15	10.20	0.34	0.00	0.34
7.65	0.16	0.00	0.16	10.25	0.35	0.00	0.35
7.70	0.16	0.00	0.16	10.30	0.35	0.00	0.35
7.75	0.16	0.00	0.16	10.35	0.36	0.00	0.36

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.37	0.00	0.37	13.00	0.86	0.00	0.86
10.45	0.37	0.00	0.37	13.05	0.80	0.00	0.80
10.50	0.38	0.00	0.38	13.10	0.75	0.00	0.75
10.55	0.40	0.00	0.40	13.15	0.71	0.00	0.71
10.60	0.42	0.00	0.42	13.20	0.68	0.00	0.68
10.65	0.44	0.00	0.44	13.25	0.65	0.00	0.65
10.70	0.46	0.00	0.46	13.30	0.62	0.00	0.62
10.75	0.49	0.00	0.49	13.35	0.59	0.00	0.59
10.80	0.50	0.00	0.50	13.40	0.57	0.00	0.57
10.85	0.53	0.00	0.53	13.45	0.53	0.00	0.53
10.90	0.55	0.00	0.55	13.50	0.51	0.00	0.51
10.95	0.58	0.00	0.58	13.55	0.48	0.00	0.48
11.00	0.59	0.00	0.59	13.60	0.46	0.00	0.46
11.05	0.64	0.00	0.64	13.65	0.45	0.00	0.45
11.10	0.67	0.00	0.67	13.70	0.44	0.00	0.44
11.15	0.72	0.00	0.72	13.75	0.43	0.00	0.43
11.20	0.75	0.00	0.75	13.80	0.42	0.00	0.42
11.25	0.80	0.00	0.80	13.85	0.41	0.00	0.41
11.30	0.84	0.00	0.84	13.90	0.40	0.00	0.40
11.35	0.89	0.00	0.89	13.95	0.39	0.00	0.39
11.40	0.92	0.00	0.92	14.00	0.39	0.00	0.39
11.45	0.97	0.00	0.97	14.05	0.38	0.00	0.38
11.50	0.99	0.00	0.99	14.10	0.37	0.00	0.37
11.55	1.27	0.00	1.27	14.15	0.37	0.00	0.37
11.60	1.44	0.00	1.44	14.20	0.36	0.00	0.36
11.65	1.55	0.00	1.55	14.25	0.35	0.00	0.35
11.70	1.60	0.00	1.60	14.30	0.35	0.00	0.35
11.75	1.93	0.00	1.93	14.35	0.34	0.00	0.34
11.80	2.12	0.00	2.12	14.40	0.33	0.00	0.33
11.85	2.63	0.00	2.63	14.45	0.33	0.00	0.33
11.90	2.93	0.00	2.93	14.50	0.32	0.00	0.32
11.95	4.16	0.00	4.16	14.55	0.31	0.00	0.31
12.00	4.89	0.00	4.89	14.60	0.31	0.00	0.31
12.05	6.96	0.00	6.96	14.65	0.30	0.00	0.30
12.10	**8.17**	0.00	**8.17**	14.70	0.30	0.00	0.30
12.15	**5.77**	0.00	**5.77**	14.75	0.29	0.00	0.29
12.20	4.28	0.00	4.28	14.80	0.28	0.00	0.28
12.25	3.35	0.00	3.35	14.85	0.27	0.00	0.27
12.30	2.93	0.00	2.93	14.90	0.27	0.00	0.27
12.35	2.47	0.00	2.47	14.95	0.26	0.00	0.26
12.40	2.22	0.00	2.22	15.00	0.26	0.00	0.26
12.45	2.06	0.00	2.06	15.05	0.25	0.00	0.25
12.50	1.98	0.00	1.98	15.10	0.25	0.00	0.25
12.55	1.65	0.00	1.65	15.15	0.24	0.00	0.24
12.60	1.45	0.00	1.45	15.20	0.24	0.00	0.24
12.65	1.32	0.00	1.32	15.25	0.24	0.00	0.24
12.70	1.25	0.00	1.25	15.30	0.23	0.00	0.23
12.75	1.16	0.00	1.16	15.35	0.23	0.00	0.23
12.80	1.11	0.00	1.11	15.40	0.23	0.00	0.23
12.85	1.03	0.00	1.03	15.45	0.23	0.00	0.23
12.90	0.98	0.00	0.98	15.50	0.23	0.00	0.23
12.95	0.91	0.00	0.91	15.55	0.22	0.00	0.22

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.22	0.00	0.22	18.20	0.14	0.00	0.14
15.65	0.22	0.00	0.22	18.25	0.14	0.00	0.14
15.70	0.22	0.00	0.22	18.30	0.14	0.00	0.14
15.75	0.22	0.00	0.22	18.35	0.14	0.00	0.14
15.80	0.22	0.00	0.22	18.40	0.13	0.00	0.13
15.85	0.21	0.00	0.21	18.45	0.13	0.00	0.13
15.90	0.21	0.00	0.21	18.50	0.13	0.00	0.13
15.95	0.21	0.00	0.21	18.55	0.13	0.00	0.13
16.00	0.21	0.00	0.21	18.60	0.13	0.00	0.13
16.05	0.21	0.00	0.21	18.65	0.13	0.00	0.13
16.10	0.21	0.00	0.21	18.70	0.13	0.00	0.13
16.15	0.20	0.00	0.20	18.75	0.13	0.00	0.13
16.20	0.20	0.00	0.20	18.80	0.13	0.00	0.13
16.25	0.20	0.00	0.20	18.85	0.13	0.00	0.13
16.30	0.20	0.00	0.20	18.90	0.13	0.00	0.13
16.35	0.20	0.00	0.20	18.95	0.13	0.00	0.13
16.40	0.20	0.00	0.20	19.00	0.13	0.00	0.13
16.45	0.19	0.00	0.19	19.05	0.13	0.00	0.13
16.50	0.19	0.00	0.19	19.10	0.13	0.00	0.13
16.55	0.19	0.00	0.19	19.15	0.13	0.00	0.13
16.60	0.19	0.00	0.19	19.20	0.13	0.00	0.13
16.65	0.19	0.00	0.19	19.25	0.13	0.00	0.13
16.70	0.19	0.00	0.19	19.30	0.13	0.00	0.13
16.75	0.18	0.00	0.18	19.35	0.13	0.00	0.13
16.80	0.18	0.00	0.18	19.40	0.13	0.00	0.13
16.85	0.18	0.00	0.18	19.45	0.13	0.00	0.13
16.90	0.18	0.00	0.18	19.50	0.12	0.00	0.12
16.95	0.18	0.00	0.18	19.55	0.12	0.00	0.12
17.00	0.18	0.00	0.18	19.60	0.12	0.00	0.12
17.05	0.17	0.00	0.17	19.65	0.12	0.00	0.12
17.10	0.17	0.00	0.17	19.70	0.12	0.00	0.12
17.15	0.17	0.00	0.17	19.75	0.12	0.00	0.12
17.20	0.17	0.00	0.17	19.80	0.12	0.00	0.12
17.25	0.17	0.00	0.17	19.85	0.12	0.00	0.12
17.30	0.16	0.00	0.16	19.90	0.12	0.00	0.12
17.35	0.16	0.00	0.16	19.95	0.12	0.00	0.12
17.40	0.16	0.00	0.16	20.00	0.12	0.00	0.12
17.45	0.16	0.00	0.16	20.05	0.12	0.00	0.12
17.50	0.16	0.00	0.16	20.10	0.12	0.00	0.12
17.55	0.16	0.00	0.16	20.15	0.12	0.00	0.12
17.60	0.16	0.00	0.16	20.20	0.12	0.00	0.12
17.65	0.15	0.00	0.15	20.25	0.12	0.00	0.12
17.70	0.15	0.00	0.15	20.30	0.12	0.00	0.12
17.75	0.15	0.00	0.15	20.35	0.12	0.00	0.12
17.80	0.15	0.00	0.15	20.40	0.12	0.00	0.12
17.85	0.15	0.00	0.15	20.45	0.12	0.00	0.12
17.90	0.15	0.00	0.15	20.50	0.12	0.00	0.12
17.95	0.14	0.00	0.14	20.55	0.12	0.00	0.12
18.00	0.14	0.00	0.14	20.60	0.12	0.00	0.12
18.05	0.14	0.00	0.14	20.65	0.12	0.00	0.12
18.10	0.14	0.00	0.14	20.70	0.11	0.00	0.11
18.15	0.14	0.00	0.14	20.75	0.11	0.00	0.11

Hydrograph for Link P1A: P1A (continued)

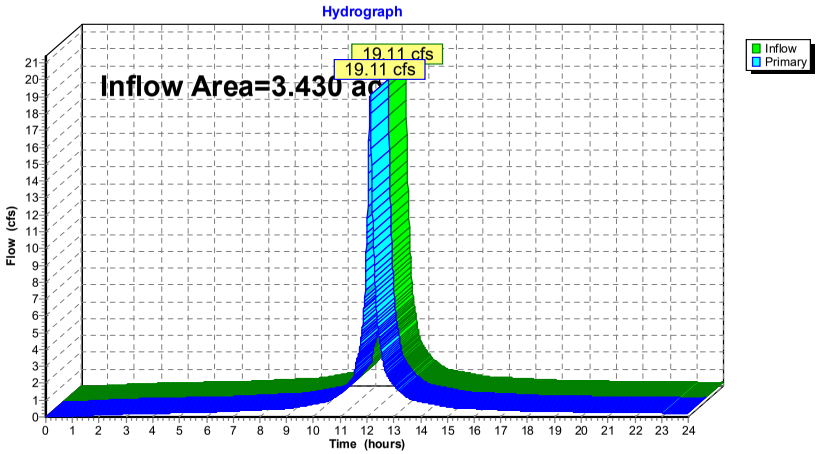
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.11	0.00	0.11	23.40	0.09	0.00	0.09
20.85	0.11	0.00	0.11	23.45	0.09	0.00	0.09
20.90	0.11	0.00	0.11	23.50	0.09	0.00	0.09
20.95	0.11	0.00	0.11	23.55	0.09	0.00	0.09
21.00	0.11	0.00	0.11	23.60	0.09	0.00	0.09
21.05	0.11	0.00	0.11	23.65	0.09	0.00	0.09
21.10	0.11	0.00	0.11	23.70	0.09	0.00	0.09
21.15	0.11	0.00	0.11	23.75	0.09	0.00	0.09
21.20	0.11	0.00	0.11	23.80	0.09	0.00	0.09
21.25	0.11	0.00	0.11	23.85	0.09	0.00	0.09
21.30	0.11	0.00	0.11	23.90	0.09	0.00	0.09
21.35	0.11	0.00	0.11	23.95	0.10	0.00	0.10
21.40	0.11	0.00	0.11	24.00	0.10	0.00	0.10
21.45	0.11	0.00	0.11				
21.50	0.11	0.00	0.11				
21.55	0.11	0.00	0.11				
21.60	0.11	0.00	0.11				
21.65	0.11	0.00	0.11				
21.70	0.11	0.00	0.11				
21.75	0.11	0.00	0.11				
21.80	0.11	0.00	0.11				
21.85	0.11	0.00	0.11				
21.90	0.10	0.00	0.10				
21.95	0.10	0.00	0.10				
22.00	0.10	0.00	0.10				
22.05	0.10	0.00	0.10				
22.10	0.10	0.00	0.10				
22.15	0.10	0.00	0.10				
22.20	0.10	0.00	0.10				
22.25	0.10	0.00	0.10				
22.30	0.10	0.00	0.10				
22.35	0.10	0.00	0.10				
22.40	0.10	0.00	0.10				
22.45	0.10	0.00	0.10				
22.50	0.10	0.00	0.10				
22.55	0.10	0.00	0.10				
22.60	0.10	0.00	0.10				
22.65	0.10	0.00	0.10				
22.70	0.10	0.00	0.10				
22.75	0.10	0.00	0.10				
22.80	0.10	0.00	0.10				
22.85	0.10	0.00	0.10				
22.90	0.10	0.00	0.10				
22.95	0.10	0.00	0.10				
23.00	0.10	0.00	0.10				
23.05	0.10	0.00	0.10				
23.10	0.09	0.00	0.09				
23.15	0.09	0.00	0.09				
23.20	0.09	0.00	0.09				
23.25	0.09	0.00	0.09				
23.30	0.09	0.00	0.09				
23.35	0.09	0.00	0.09				

Summary for Link P1B: P1B

Inflow Area = 3.430 ac, 82.22% Impervious, Inflow Depth > 5.40" for 10YR PROJECTED event
Inflow = 19.11 cfs @ 12.12 hrs, Volume= 1.544 af
Primary = 19.11 cfs @ 12.12 hrs, Volume= 1.544 af, Atten= 0%, Lag= 0.0 min
Routed to Link PPOI-1 : PPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link P1B: P1B



Hydrograph for Link P1B: P1B

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.15	0.00	0.15
0.05	0.00	0.00	0.00	2.65	0.15	0.00	0.15
0.10	0.00	0.00	0.00	2.70	0.16	0.00	0.16
0.15	0.00	0.00	0.00	2.75	0.16	0.00	0.16
0.20	0.00	0.00	0.00	2.80	0.16	0.00	0.16
0.25	0.00	0.00	0.00	2.85	0.16	0.00	0.16
0.30	0.00	0.00	0.00	2.90	0.17	0.00	0.17
0.35	0.00	0.00	0.00	2.95	0.17	0.00	0.17
0.40	0.00	0.00	0.00	3.00	0.17	0.00	0.17
0.45	0.00	0.00	0.00	3.05	0.17	0.00	0.17
0.50	0.00	0.00	0.00	3.10	0.17	0.00	0.17
0.55	0.00	0.00	0.00	3.15	0.18	0.00	0.18
0.60	0.00	0.00	0.00	3.20	0.18	0.00	0.18
0.65	0.00	0.00	0.00	3.25	0.18	0.00	0.18
0.70	0.00	0.00	0.00	3.30	0.18	0.00	0.18
0.75	0.01	0.00	0.01	3.35	0.18	0.00	0.18
0.80	0.01	0.00	0.01	3.40	0.19	0.00	0.19
0.85	0.02	0.00	0.02	3.45	0.19	0.00	0.19
0.90	0.02	0.00	0.02	3.50	0.19	0.00	0.19
0.95	0.03	0.00	0.03	3.55	0.19	0.00	0.19
1.00	0.03	0.00	0.03	3.60	0.20	0.00	0.20
1.05	0.04	0.00	0.04	3.65	0.20	0.00	0.20
1.10	0.05	0.00	0.05	3.70	0.20	0.00	0.20
1.15	0.05	0.00	0.05	3.75	0.20	0.00	0.20
1.20	0.05	0.00	0.05	3.80	0.20	0.00	0.20
1.25	0.06	0.00	0.06	3.85	0.20	0.00	0.20
1.30	0.06	0.00	0.06	3.90	0.21	0.00	0.21
1.35	0.07	0.00	0.07	3.95	0.21	0.00	0.21
1.40	0.07	0.00	0.07	4.00	0.21	0.00	0.21
1.45	0.08	0.00	0.08	4.05	0.21	0.00	0.21
1.50	0.08	0.00	0.08	4.10	0.21	0.00	0.21
1.55	0.09	0.00	0.09	4.15	0.21	0.00	0.21
1.60	0.09	0.00	0.09	4.20	0.22	0.00	0.22
1.65	0.09	0.00	0.09	4.25	0.22	0.00	0.22
1.70	0.10	0.00	0.10	4.30	0.22	0.00	0.22
1.75	0.10	0.00	0.10	4.35	0.22	0.00	0.22
1.80	0.10	0.00	0.10	4.40	0.22	0.00	0.22
1.85	0.11	0.00	0.11	4.45	0.22	0.00	0.22
1.90	0.11	0.00	0.11	4.50	0.23	0.00	0.23
1.95	0.11	0.00	0.11	4.55	0.23	0.00	0.23
2.00	0.12	0.00	0.12	4.60	0.23	0.00	0.23
2.05	0.12	0.00	0.12	4.65	0.23	0.00	0.23
2.10	0.12	0.00	0.12	4.70	0.23	0.00	0.23
2.15	0.13	0.00	0.13	4.75	0.23	0.00	0.23
2.20	0.13	0.00	0.13	4.80	0.23	0.00	0.23
2.25	0.13	0.00	0.13	4.85	0.24	0.00	0.24
2.30	0.14	0.00	0.14	4.90	0.24	0.00	0.24
2.35	0.14	0.00	0.14	4.95	0.24	0.00	0.24
2.40	0.14	0.00	0.14	5.00	0.24	0.00	0.24
2.45	0.14	0.00	0.14	5.05	0.24	0.00	0.24
2.50	0.15	0.00	0.15	5.10	0.24	0.00	0.24
2.55	0.15	0.00	0.15	5.15	0.25	0.00	0.25

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.25	0.00	0.25	7.80	0.40	0.00	0.40
5.25	0.25	0.00	0.25	7.85	0.41	0.00	0.41
5.30	0.25	0.00	0.25	7.90	0.41	0.00	0.41
5.35	0.25	0.00	0.25	7.95	0.42	0.00	0.42
5.40	0.25	0.00	0.25	8.00	0.42	0.00	0.42
5.45	0.25	0.00	0.25	8.05	0.42	0.00	0.42
5.50	0.26	0.00	0.26	8.10	0.43	0.00	0.43
5.55	0.26	0.00	0.26	8.15	0.43	0.00	0.43
5.60	0.26	0.00	0.26	8.20	0.44	0.00	0.44
5.65	0.26	0.00	0.26	8.25	0.44	0.00	0.44
5.70	0.26	0.00	0.26	8.30	0.44	0.00	0.44
5.75	0.26	0.00	0.26	8.35	0.45	0.00	0.45
5.80	0.26	0.00	0.26	8.40	0.45	0.00	0.45
5.85	0.26	0.00	0.26	8.45	0.46	0.00	0.46
5.90	0.27	0.00	0.27	8.50	0.46	0.00	0.46
5.95	0.27	0.00	0.27	8.55	0.46	0.00	0.46
6.00	0.27	0.00	0.27	8.60	0.47	0.00	0.47
6.05	0.27	0.00	0.27	8.65	0.47	0.00	0.47
6.10	0.27	0.00	0.27	8.70	0.48	0.00	0.48
6.15	0.28	0.00	0.28	8.75	0.48	0.00	0.48
6.20	0.28	0.00	0.28	8.80	0.48	0.00	0.48
6.25	0.29	0.00	0.29	8.85	0.49	0.00	0.49
6.30	0.29	0.00	0.29	8.90	0.49	0.00	0.49
6.35	0.29	0.00	0.29	8.95	0.49	0.00	0.49
6.40	0.30	0.00	0.30	9.00	0.50	0.00	0.50
6.45	0.30	0.00	0.30	9.05	0.51	0.00	0.51
6.50	0.30	0.00	0.30	9.10	0.52	0.00	0.52
6.55	0.31	0.00	0.31	9.15	0.53	0.00	0.53
6.60	0.31	0.00	0.31	9.20	0.54	0.00	0.54
6.65	0.32	0.00	0.32	9.25	0.56	0.00	0.56
6.70	0.32	0.00	0.32	9.30	0.57	0.00	0.57
6.75	0.32	0.00	0.32	9.35	0.59	0.00	0.59
6.80	0.33	0.00	0.33	9.40	0.60	0.00	0.60
6.85	0.33	0.00	0.33	9.45	0.61	0.00	0.61
6.90	0.33	0.00	0.33	9.50	0.63	0.00	0.63
6.95	0.34	0.00	0.34	9.55	0.64	0.00	0.64
7.00	0.34	0.00	0.34	9.60	0.65	0.00	0.65
7.05	0.35	0.00	0.35	9.65	0.67	0.00	0.67
7.10	0.35	0.00	0.35	9.70	0.68	0.00	0.68
7.15	0.35	0.00	0.35	9.75	0.70	0.00	0.70
7.20	0.36	0.00	0.36	9.80	0.71	0.00	0.71
7.25	0.36	0.00	0.36	9.85	0.72	0.00	0.72
7.30	0.37	0.00	0.37	9.90	0.74	0.00	0.74
7.35	0.37	0.00	0.37	9.95	0.75	0.00	0.75
7.40	0.37	0.00	0.37	10.00	0.77	0.00	0.77
7.45	0.38	0.00	0.38	10.05	0.78	0.00	0.78
7.50	0.38	0.00	0.38	10.10	0.79	0.00	0.79
7.55	0.39	0.00	0.39	10.15	0.81	0.00	0.81
7.60	0.39	0.00	0.39	10.20	0.82	0.00	0.82
7.65	0.39	0.00	0.39	10.25	0.84	0.00	0.84
7.70	0.40	0.00	0.40	10.30	0.85	0.00	0.85
7.75	0.40	0.00	0.40	10.35	0.86	0.00	0.86

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.88	0.00	0.88	13.00	1.91	0.00	1.91
10.45	0.89	0.00	0.89	13.05	1.80	0.00	1.80
10.50	0.91	0.00	0.91	13.10	1.70	0.00	1.70
10.55	0.94	0.00	0.94	13.15	1.61	0.00	1.61
10.60	0.98	0.00	0.98	13.20	1.54	0.00	1.54
10.65	1.03	0.00	1.03	13.25	1.48	0.00	1.48
10.70	1.08	0.00	1.08	13.30	1.42	0.00	1.42
10.75	1.13	0.00	1.13	13.35	1.36	0.00	1.36
10.80	1.19	0.00	1.19	13.40	1.30	0.00	1.30
10.85	1.24	0.00	1.24	13.45	1.25	0.00	1.25
10.90	1.29	0.00	1.29	13.50	1.19	0.00	1.19
10.95	1.35	0.00	1.35	13.55	1.13	0.00	1.13
11.00	1.40	0.00	1.40	13.60	1.07	0.00	1.07
11.05	1.48	0.00	1.48	13.65	1.04	0.00	1.04
11.10	1.56	0.00	1.56	13.70	1.01	0.00	1.01
11.15	1.66	0.00	1.66	13.75	0.99	0.00	0.99
11.20	1.76	0.00	1.76	13.80	0.97	0.00	0.97
11.25	1.86	0.00	1.86	13.85	0.96	0.00	0.96
11.30	1.96	0.00	1.96	13.90	0.94	0.00	0.94
11.35	2.06	0.00	2.06	13.95	0.93	0.00	0.93
11.40	2.16	0.00	2.16	14.00	0.91	0.00	0.91
11.45	2.26	0.00	2.26	14.05	0.89	0.00	0.89
11.50	2.34	0.00	2.34	14.10	0.88	0.00	0.88
11.55	2.73	0.00	2.73	14.15	0.87	0.00	0.87
11.60	3.24	0.00	3.24	14.20	0.85	0.00	0.85
11.65	3.56	0.00	3.56	14.25	0.84	0.00	0.84
11.70	3.78	0.00	3.78	14.30	0.82	0.00	0.82
11.75	4.27	0.00	4.27	14.35	0.81	0.00	0.81
11.80	4.88	0.00	4.88	14.40	0.79	0.00	0.79
11.85	5.74	0.00	5.74	14.45	0.78	0.00	0.78
11.90	6.70	0.00	6.70	14.50	0.76	0.00	0.76
11.95	8.62	0.00	8.62	14.55	0.75	0.00	0.75
12.00	10.96	0.00	10.96	14.60	0.73	0.00	0.73
12.05	14.45	0.00	14.45	14.65	0.72	0.00	0.72
12.10	**18.46**	0.00	**18.46**	14.70	0.70	0.00	0.70
12.15	**16.95**	0.00	**16.95**	14.75	0.69	0.00	0.69
12.20	12.69	0.00	12.69	14.80	0.67	0.00	0.67
12.25	9.93	0.00	9.93	14.85	0.66	0.00	0.66
12.30	7.94	0.00	7.94	14.90	0.64	0.00	0.64
12.35	6.46	0.00	6.46	14.95	0.63	0.00	0.63
12.40	5.33	0.00	5.33	15.00	0.61	0.00	0.61
12.45	4.72	0.00	4.72	15.05	0.60	0.00	0.60
12.50	4.35	0.00	4.35	15.10	0.58	0.00	0.58
12.55	3.81	0.00	3.81	15.15	0.57	0.00	0.57
12.60	3.22	0.00	3.22	15.20	0.56	0.00	0.56
12.65	2.88	0.00	2.88	15.25	0.56	0.00	0.56
12.70	2.66	0.00	2.66	15.30	0.55	0.00	0.55
12.75	2.49	0.00	2.49	15.35	0.55	0.00	0.55
12.80	2.36	0.00	2.36	15.40	0.55	0.00	0.55
12.85	2.24	0.00	2.24	15.45	0.54	0.00	0.54
12.90	2.13	0.00	2.13	15.50	0.54	0.00	0.54
12.95	2.02	0.00	2.02	15.55	0.53	0.00	0.53

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.53	0.00	0.53	18.20	0.33	0.00	0.33
15.65	0.53	0.00	0.53	18.25	0.32	0.00	0.32
15.70	0.52	0.00	0.52	18.30	0.32	0.00	0.32
15.75	0.52	0.00	0.52	18.35	0.32	0.00	0.32
15.80	0.51	0.00	0.51	18.40	0.32	0.00	0.32
15.85	0.51	0.00	0.51	18.45	0.32	0.00	0.32
15.90	0.51	0.00	0.51	18.50	0.32	0.00	0.32
15.95	0.50	0.00	0.50	18.55	0.32	0.00	0.32
16.00	0.50	0.00	0.50	18.60	0.32	0.00	0.32
16.05	0.49	0.00	0.49	18.65	0.32	0.00	0.32
16.10	0.49	0.00	0.49	18.70	0.31	0.00	0.31
16.15	0.49	0.00	0.49	18.75	0.31	0.00	0.31
16.20	0.48	0.00	0.48	18.80	0.31	0.00	0.31
16.25	0.48	0.00	0.48	18.85	0.31	0.00	0.31
16.30	0.47	0.00	0.47	18.90	0.31	0.00	0.31
16.35	0.47	0.00	0.47	18.95	0.31	0.00	0.31
16.40	0.47	0.00	0.47	19.00	0.31	0.00	0.31
16.45	0.46	0.00	0.46	19.05	0.31	0.00	0.31
16.50	0.46	0.00	0.46	19.10	0.31	0.00	0.31
16.55	0.45	0.00	0.45	19.15	0.31	0.00	0.31
16.60	0.45	0.00	0.45	19.20	0.30	0.00	0.30
16.65	0.45	0.00	0.45	19.25	0.30	0.00	0.30
16.70	0.44	0.00	0.44	19.30	0.30	0.00	0.30
16.75	0.44	0.00	0.44	19.35	0.30	0.00	0.30
16.80	0.43	0.00	0.43	19.40	0.30	0.00	0.30
16.85	0.43	0.00	0.43	19.45	0.30	0.00	0.30
16.90	0.43	0.00	0.43	19.50	0.30	0.00	0.30
16.95	0.42	0.00	0.42	19.55	0.30	0.00	0.30
17.00	0.42	0.00	0.42	19.60	0.30	0.00	0.30
17.05	0.41	0.00	0.41	19.65	0.30	0.00	0.30
17.10	0.41	0.00	0.41	19.70	0.29	0.00	0.29
17.15	0.41	0.00	0.41	19.75	0.29	0.00	0.29
17.20	0.40	0.00	0.40	19.80	0.29	0.00	0.29
17.25	0.40	0.00	0.40	19.85	0.29	0.00	0.29
17.30	0.39	0.00	0.39	19.90	0.29	0.00	0.29
17.35	0.39	0.00	0.39	19.95	0.29	0.00	0.29
17.40	0.39	0.00	0.39	20.00	0.29	0.00	0.29
17.45	0.38	0.00	0.38	20.05	0.29	0.00	0.29
17.50	0.38	0.00	0.38	20.10	0.29	0.00	0.29
17.55	0.37	0.00	0.37	20.15	0.29	0.00	0.29
17.60	0.37	0.00	0.37	20.20	0.28	0.00	0.28
17.65	0.37	0.00	0.37	20.25	0.28	0.00	0.28
17.70	0.36	0.00	0.36	20.30	0.28	0.00	0.28
17.75	0.36	0.00	0.36	20.35	0.28	0.00	0.28
17.80	0.35	0.00	0.35	20.40	0.28	0.00	0.28
17.85	0.35	0.00	0.35	20.45	0.28	0.00	0.28
17.90	0.35	0.00	0.35	20.50	0.28	0.00	0.28
17.95	0.34	0.00	0.34	20.55	0.28	0.00	0.28
18.00	0.34	0.00	0.34	20.60	0.28	0.00	0.28
18.05	0.33	0.00	0.33	20.65	0.28	0.00	0.28
18.10	0.33	0.00	0.33	20.70	0.28	0.00	0.28
18.15	0.33	0.00	0.33	20.75	0.27	0.00	0.27

Hydrograph for Link P1B: P1B (continued)

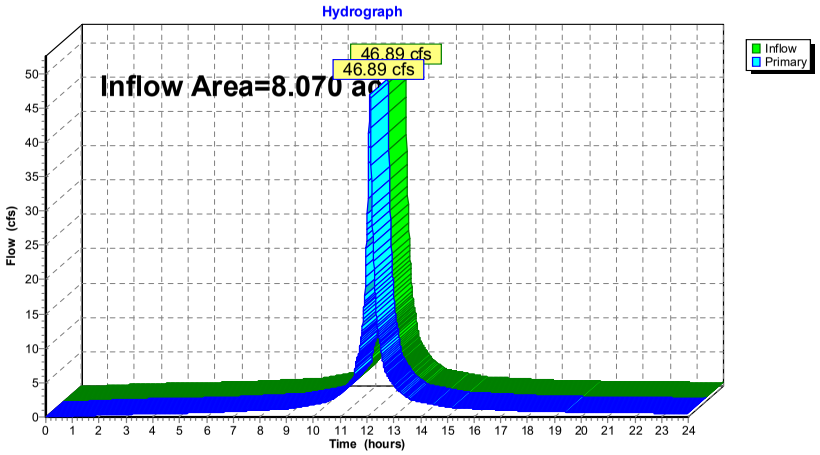
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.27	0.00	0.27	23.40	0.22	0.00	0.22
20.85	0.27	0.00	0.27	23.45	0.22	0.00	0.22
20.90	0.27	0.00	0.27	23.50	0.22	0.00	0.22
20.95	0.27	0.00	0.27	23.55	0.22	0.00	0.22
21.00	0.27	0.00	0.27	23.60	0.22	0.00	0.22
21.05	0.27	0.00	0.27	23.65	0.22	0.00	0.22
21.10	0.27	0.00	0.27	23.70	0.22	0.00	0.22
21.15	0.27	0.00	0.27	23.75	0.21	0.00	0.21
21.20	0.26	0.00	0.26	23.80	0.21	0.00	0.21
21.25	0.26	0.00	0.26	23.85	0.21	0.00	0.21
21.30	0.26	0.00	0.26	23.90	0.21	0.00	0.21
21.35	0.26	0.00	0.26	23.95	0.22	0.00	0.22
21.40	0.26	0.00	0.26	24.00	0.24	0.00	0.24
21.45	0.26	0.00	0.26				
21.50	0.26	0.00	0.26				
21.55	0.26	0.00	0.26				
21.60	0.26	0.00	0.26				
21.65	0.26	0.00	0.26				
21.70	0.25	0.00	0.25				
21.75	0.25	0.00	0.25				
21.80	0.25	0.00	0.25				
21.85	0.25	0.00	0.25				
21.90	0.25	0.00	0.25				
21.95	0.25	0.00	0.25				
22.00	0.25	0.00	0.25				
22.05	0.25	0.00	0.25				
22.10	0.25	0.00	0.25				
22.15	0.25	0.00	0.25				
22.20	0.25	0.00	0.25				
22.25	0.24	0.00	0.24				
22.30	0.24	0.00	0.24				
22.35	0.24	0.00	0.24				
22.40	0.24	0.00	0.24				
22.45	0.24	0.00	0.24				
22.50	0.24	0.00	0.24				
22.55	0.24	0.00	0.24				
22.60	0.24	0.00	0.24				
22.65	0.24	0.00	0.24				
22.70	0.24	0.00	0.24				
22.75	0.23	0.00	0.23				
22.80	0.23	0.00	0.23				
22.85	0.23	0.00	0.23				
22.90	0.23	0.00	0.23				
22.95	0.23	0.00	0.23				
23.00	0.23	0.00	0.23				
23.05	0.23	0.00	0.23				
23.10	0.23	0.00	0.23				
23.15	0.23	0.00	0.23				
23.20	0.22	0.00	0.22				
23.25	0.22	0.00	0.22				
23.30	0.22	0.00	0.22				
23.35	0.22	0.00	0.22				

Summary for Link PPOI-1: PPOI-1

Inflow Area = 8.070 ac, 81.04% Impervious, Inflow Depth > 5.52" for 10YR PROJECTED event
Inflow = 46.89 cfs @ 12.11 hrs, Volume= 3.714 af
Primary = 46.89 cfs @ 12.11 hrs, Volume= 3.714 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link PPOI-1: PPOI-1



Hydrograph for Link PPOI-1: PPOI-1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.34	0.00	0.34
0.05	0.00	0.00	0.00	2.65	0.35	0.00	0.35
0.10	0.00	0.00	0.00	2.70	0.35	0.00	0.35
0.15	0.00	0.00	0.00	2.75	0.36	0.00	0.36
0.20	0.00	0.00	0.00	2.80	0.36	0.00	0.36
0.25	0.00	0.00	0.00	2.85	0.37	0.00	0.37
0.30	0.00	0.00	0.00	2.90	0.37	0.00	0.37
0.35	0.00	0.00	0.00	2.95	0.38	0.00	0.38
0.40	0.00	0.00	0.00	3.00	0.38	0.00	0.38
0.45	0.00	0.00	0.00	3.05	0.39	0.00	0.39
0.50	0.00	0.00	0.00	3.10	0.39	0.00	0.39
0.55	0.00	0.00	0.00	3.15	0.40	0.00	0.40
0.60	0.00	0.00	0.00	3.20	0.40	0.00	0.40
0.65	0.00	0.00	0.00	3.25	0.41	0.00	0.41
0.70	0.01	0.00	0.01	3.30	0.41	0.00	0.41
0.75	0.02	0.00	0.02	3.35	0.42	0.00	0.42
0.80	0.03	0.00	0.03	3.40	0.42	0.00	0.42
0.85	0.04	0.00	0.04	3.45	0.43	0.00	0.43
0.90	0.06	0.00	0.06	3.50	0.43	0.00	0.43
0.95	0.07	0.00	0.07	3.55	0.44	0.00	0.44
1.00	0.08	0.00	0.08	3.60	0.44	0.00	0.44
1.05	0.09	0.00	0.09	3.65	0.44	0.00	0.44
1.10	0.10	0.00	0.10	3.70	0.45	0.00	0.45
1.15	0.11	0.00	0.11	3.75	0.45	0.00	0.45
1.20	0.13	0.00	0.13	3.80	0.45	0.00	0.45
1.25	0.14	0.00	0.14	3.85	0.46	0.00	0.46
1.30	0.15	0.00	0.15	3.90	0.46	0.00	0.46
1.35	0.16	0.00	0.16	3.95	0.47	0.00	0.47
1.40	0.17	0.00	0.17	4.00	0.47	0.00	0.47
1.45	0.18	0.00	0.18	4.05	0.47	0.00	0.47
1.50	0.18	0.00	0.18	4.10	0.48	0.00	0.48
1.55	0.19	0.00	0.19	4.15	0.48	0.00	0.48
1.60	0.20	0.00	0.20	4.20	0.49	0.00	0.49
1.65	0.21	0.00	0.21	4.25	0.49	0.00	0.49
1.70	0.22	0.00	0.22	4.30	0.49	0.00	0.49
1.75	0.23	0.00	0.23	4.35	0.50	0.00	0.50
1.80	0.23	0.00	0.23	4.40	0.50	0.00	0.50
1.85	0.24	0.00	0.24	4.45	0.50	0.00	0.50
1.90	0.25	0.00	0.25	4.50	0.51	0.00	0.51
1.95	0.26	0.00	0.26	4.55	0.51	0.00	0.51
2.00	0.26	0.00	0.26	4.60	0.51	0.00	0.51
2.05	0.27	0.00	0.27	4.65	0.52	0.00	0.52
2.10	0.28	0.00	0.28	4.70	0.52	0.00	0.52
2.15	0.28	0.00	0.28	4.75	0.52	0.00	0.52
2.20	0.29	0.00	0.29	4.80	0.53	0.00	0.53
2.25	0.30	0.00	0.30	4.85	0.53	0.00	0.53
2.30	0.31	0.00	0.31	4.90	0.53	0.00	0.53
2.35	0.31	0.00	0.31	4.95	0.54	0.00	0.54
2.40	0.32	0.00	0.32	5.00	0.54	0.00	0.54
2.45	0.32	0.00	0.32	5.05	0.55	0.00	0.55
2.50	0.33	0.00	0.33	5.10	0.55	0.00	0.55
2.55	0.33	0.00	0.33	5.15	0.55	0.00	0.55

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.56	0.00	0.56	7.80	0.94	0.00	0.94
5.25	0.56	0.00	0.56	7.85	0.95	0.00	0.95
5.30	0.56	0.00	0.56	7.90	0.96	0.00	0.96
5.35	0.57	0.00	0.57	7.95	0.97	0.00	0.97
5.40	0.57	0.00	0.57	8.00	0.98	0.00	0.98
5.45	0.57	0.00	0.57	8.05	0.99	0.00	0.99
5.50	0.58	0.00	0.58	8.10	1.00	0.00	1.00
5.55	0.58	0.00	0.58	8.15	1.01	0.00	1.01
5.60	0.58	0.00	0.58	8.20	1.02	0.00	1.02
5.65	0.59	0.00	0.59	8.25	1.03	0.00	1.03
5.70	0.59	0.00	0.59	8.30	1.04	0.00	1.04
5.75	0.59	0.00	0.59	8.35	1.05	0.00	1.05
5.80	0.60	0.00	0.60	8.40	1.06	0.00	1.06
5.85	0.60	0.00	0.60	8.45	1.07	0.00	1.07
5.90	0.60	0.00	0.60	8.50	1.08	0.00	1.08
5.95	0.61	0.00	0.61	8.55	1.09	0.00	1.09
6.00	0.61	0.00	0.61	8.60	1.10	0.00	1.10
6.05	0.62	0.00	0.62	8.65	1.11	0.00	1.11
6.10	0.63	0.00	0.63	8.70	1.12	0.00	1.12
6.15	0.63	0.00	0.63	8.75	1.13	0.00	1.13
6.20	0.64	0.00	0.64	8.80	1.14	0.00	1.14
6.25	0.65	0.00	0.65	8.85	1.15	0.00	1.15
6.30	0.66	0.00	0.66	8.90	1.16	0.00	1.16
6.35	0.67	0.00	0.67	8.95	1.17	0.00	1.17
6.40	0.68	0.00	0.68	9.00	1.18	0.00	1.18
6.45	0.69	0.00	0.69	9.05	1.20	0.00	1.20
6.50	0.70	0.00	0.70	9.10	1.23	0.00	1.23
6.55	0.71	0.00	0.71	9.15	1.26	0.00	1.26
6.60	0.72	0.00	0.72	9.20	1.29	0.00	1.29
6.65	0.73	0.00	0.73	9.25	1.33	0.00	1.33
6.70	0.74	0.00	0.74	9.30	1.36	0.00	1.36
6.75	0.74	0.00	0.74	9.35	1.39	0.00	1.39
6.80	0.75	0.00	0.75	9.40	1.42	0.00	1.42
6.85	0.76	0.00	0.76	9.45	1.46	0.00	1.46
6.90	0.77	0.00	0.77	9.50	1.49	0.00	1.49
6.95	0.78	0.00	0.78	9.55	1.53	0.00	1.53
7.00	0.79	0.00	0.79	9.60	1.56	0.00	1.56
7.05	0.80	0.00	0.80	9.65	1.60	0.00	1.60
7.10	0.81	0.00	0.81	9.70	1.63	0.00	1.63
7.15	0.82	0.00	0.82	9.75	1.66	0.00	1.66
7.20	0.83	0.00	0.83	9.80	1.70	0.00	1.70
7.25	0.84	0.00	0.84	9.85	1.73	0.00	1.73
7.30	0.85	0.00	0.85	9.90	1.77	0.00	1.77
7.35	0.86	0.00	0.86	9.95	1.80	0.00	1.80
7.40	0.87	0.00	0.87	10.00	1.83	0.00	1.83
7.45	0.88	0.00	0.88	10.05	1.87	0.00	1.87
7.50	0.89	0.00	0.89	10.10	1.90	0.00	1.90
7.55	0.90	0.00	0.90	10.15	1.94	0.00	1.94
7.60	0.90	0.00	0.90	10.20	1.98	0.00	1.98
7.65	0.91	0.00	0.91	10.25	2.01	0.00	2.01
7.70	0.92	0.00	0.92	10.30	2.04	0.00	2.04
7.75	0.93	0.00	0.93	10.35	2.08	0.00	2.08

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	2.11	0.00	2.11	13.00	4.65	0.00	4.65
10.45	2.15	0.00	2.15	13.05	4.36	0.00	4.36
10.50	2.19	0.00	2.19	13.10	4.12	0.00	4.12
10.55	2.28	0.00	2.28	13.15	3.91	0.00	3.91
10.60	2.38	0.00	2.38	13.20	3.75	0.00	3.75
10.65	2.51	0.00	2.51	13.25	3.58	0.00	3.58
10.70	2.62	0.00	2.62	13.30	3.44	0.00	3.44
10.75	2.76	0.00	2.76	13.35	3.29	0.00	3.29
10.80	2.88	0.00	2.88	13.40	3.15	0.00	3.15
10.85	3.02	0.00	3.02	13.45	3.00	0.00	3.00
10.90	3.14	0.00	3.14	13.50	2.87	0.00	2.87
10.95	3.28	0.00	3.28	13.55	2.72	0.00	2.72
11.00	3.40	0.00	3.40	13.60	2.59	0.00	2.59
11.05	3.61	0.00	3.61	13.65	2.50	0.00	2.50
11.10	3.81	0.00	3.81	13.70	2.44	0.00	2.44
11.15	4.07	0.00	4.07	13.75	2.39	0.00	2.39
11.20	4.29	0.00	4.29	13.80	2.35	0.00	2.35
11.25	4.55	0.00	4.55	13.85	2.31	0.00	2.31
11.30	4.78	0.00	4.78	13.90	2.27	0.00	2.27
11.35	5.05	0.00	5.05	13.95	2.23	0.00	2.23
11.40	5.28	0.00	5.28	14.00	2.20	0.00	2.20
11.45	5.52	0.00	5.52	14.05	2.16	0.00	2.16
11.50	5.71	0.00	5.71	14.10	2.12	0.00	2.12
11.55	6.84	0.00	6.84	14.15	2.08	0.00	2.08
11.60	8.03	0.00	8.03	14.20	2.05	0.00	2.05
11.65	8.77	0.00	8.77	14.25	2.01	0.00	2.01
11.70	9.24	0.00	9.24	14.30	1.98	0.00	1.98
11.75	10.63	0.00	10.63	14.35	1.94	0.00	1.94
11.80	12.03	0.00	12.03	14.40	1.90	0.00	1.90
11.85	14.37	0.00	14.37	14.45	1.87	0.00	1.87
11.90	16.56	0.00	16.56	14.50	1.83	0.00	1.83
11.95	21.97	0.00	21.97	14.55	1.79	0.00	1.79
12.00	27.31	0.00	27.31	14.60	1.76	0.00	1.76
12.05	36.88	0.00	36.88	14.65	1.72	0.00	1.72
12.10	**45.96**	0.00	**45.96**	14.70	1.69	0.00	1.69
12.15	**39.21**	0.00	**39.21**	14.75	1.65	0.00	1.65
12.20	29.10	0.00	29.10	14.80	1.62	0.00	1.62
12.25	22.59	0.00	22.59	14.85	1.58	0.00	1.58
12.30	18.33	0.00	18.33	14.90	1.54	0.00	1.54
12.35	15.02	0.00	15.02	14.95	1.50	0.00	1.50
12.40	12.64	0.00	12.64	15.00	1.47	0.00	1.47
12.45	11.34	0.00	11.34	15.05	1.43	0.00	1.43
12.50	10.59	0.00	10.59	15.10	1.40	0.00	1.40
12.55	9.14	0.00	9.14	15.15	1.38	0.00	1.38
12.60	7.77	0.00	7.77	15.20	1.36	0.00	1.36
12.65	6.98	0.00	6.98	15.25	1.34	0.00	1.34
12.70	6.50	0.00	6.50	15.30	1.33	0.00	1.33
12.75	6.09	0.00	6.09	15.35	1.32	0.00	1.32
12.80	5.78	0.00	5.78	15.40	1.32	0.00	1.32
12.85	5.46	0.00	5.46	15.45	1.30	0.00	1.30
12.90	5.20	0.00	5.20	15.50	1.29	0.00	1.29
12.95	4.90	0.00	4.90	15.55	1.28	0.00	1.28

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	1.28	0.00	1.28	18.20	0.78	0.00	0.78
15.65	1.26	0.00	1.26	18.25	0.78	0.00	0.78
15.70	1.25	0.00	1.25	18.30	0.78	0.00	0.78
15.75	1.24	0.00	1.24	18.35	0.77	0.00	0.77
15.80	1.23	0.00	1.23	18.40	0.77	0.00	0.77
15.85	1.23	0.00	1.23	18.45	0.77	0.00	0.77
15.90	1.22	0.00	1.22	18.50	0.77	0.00	0.77
15.95	1.21	0.00	1.21	18.55	0.76	0.00	0.76
16.00	1.20	0.00	1.20	18.60	0.76	0.00	0.76
16.05	1.19	0.00	1.19	18.65	0.76	0.00	0.76
16.10	1.18	0.00	1.18	18.70	0.76	0.00	0.76
16.15	1.17	0.00	1.17	18.75	0.75	0.00	0.75
16.20	1.16	0.00	1.16	18.80	0.75	0.00	0.75
16.25	1.15	0.00	1.15	18.85	0.75	0.00	0.75
16.30	1.14	0.00	1.14	18.90	0.75	0.00	0.75
16.35	1.13	0.00	1.13	18.95	0.74	0.00	0.74
16.40	1.12	0.00	1.12	19.00	0.74	0.00	0.74
16.45	1.11	0.00	1.11	19.05	0.74	0.00	0.74
16.50	1.10	0.00	1.10	19.10	0.74	0.00	0.74
16.55	1.09	0.00	1.09	19.15	0.74	0.00	0.74
16.60	1.08	0.00	1.08	19.20	0.73	0.00	0.73
16.65	1.07	0.00	1.07	19.25	0.73	0.00	0.73
16.70	1.06	0.00	1.06	19.30	0.73	0.00	0.73
16.75	1.05	0.00	1.05	19.35	0.73	0.00	0.73
16.80	1.04	0.00	1.04	19.40	0.72	0.00	0.72
16.85	1.03	0.00	1.03	19.45	0.72	0.00	0.72
16.90	1.02	0.00	1.02	19.50	0.72	0.00	0.72
16.95	1.01	0.00	1.01	19.55	0.72	0.00	0.72
17.00	1.01	0.00	1.01	19.60	0.71	0.00	0.71
17.05	1.00	0.00	1.00	19.65	0.71	0.00	0.71
17.10	0.99	0.00	0.99	19.70	0.71	0.00	0.71
17.15	0.98	0.00	0.98	19.75	0.71	0.00	0.71
17.20	0.97	0.00	0.97	19.80	0.71	0.00	0.71
17.25	0.96	0.00	0.96	19.85	0.70	0.00	0.70
17.30	0.95	0.00	0.95	19.90	0.70	0.00	0.70
17.35	0.94	0.00	0.94	19.95	0.70	0.00	0.70
17.40	0.93	0.00	0.93	20.00	0.69	0.00	0.69
17.45	0.92	0.00	0.92	20.05	0.69	0.00	0.69
17.50	0.91	0.00	0.91	20.10	0.69	0.00	0.69
17.55	0.90	0.00	0.90	20.15	0.69	0.00	0.69
17.60	0.89	0.00	0.89	20.20	0.68	0.00	0.68
17.65	0.88	0.00	0.88	20.25	0.68	0.00	0.68
17.70	0.87	0.00	0.87	20.30	0.68	0.00	0.68
17.75	0.86	0.00	0.86	20.35	0.68	0.00	0.68
17.80	0.85	0.00	0.85	20.40	0.67	0.00	0.67
17.85	0.84	0.00	0.84	20.45	0.67	0.00	0.67
17.90	0.83	0.00	0.83	20.50	0.67	0.00	0.67
17.95	0.82	0.00	0.82	20.55	0.67	0.00	0.67
18.00	0.81	0.00	0.81	20.60	0.67	0.00	0.67
18.05	0.80	0.00	0.80	20.65	0.67	0.00	0.67
18.10	0.79	0.00	0.79	20.70	0.66	0.00	0.66
18.15	0.79	0.00	0.79	20.75	0.66	0.00	0.66

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.66	0.00	0.66	23.40	0.53	0.00	0.53
20.85	0.65	0.00	0.65	23.45	0.53	0.00	0.53
20.90	0.65	0.00	0.65	23.50	0.53	0.00	0.53
20.95	0.65	0.00	0.65	23.55	0.52	0.00	0.52
21.00	0.65	0.00	0.65	23.60	0.52	0.00	0.52
21.05	0.64	0.00	0.64	23.65	0.52	0.00	0.52
21.10	0.64	0.00	0.64	23.70	0.52	0.00	0.52
21.15	0.64	0.00	0.64	23.75	0.51	0.00	0.51
21.20	0.64	0.00	0.64	23.80	0.51	0.00	0.51
21.25	0.64	0.00	0.64	23.85	0.51	0.00	0.51
21.30	0.63	0.00	0.63	23.90	0.51	0.00	0.51
21.35	0.63	0.00	0.63	23.95	0.54	0.00	0.54
21.40	0.63	0.00	0.63	24.00	0.58	0.00	0.58
21.45	0.62	0.00	0.62				
21.50	0.62	0.00	0.62				
21.55	0.62	0.00	0.62				
21.60	0.62	0.00	0.62				
21.65	0.61	0.00	0.61				
21.70	0.61	0.00	0.61				
21.75	0.61	0.00	0.61				
21.80	0.61	0.00	0.61				
21.85	0.61	0.00	0.61				
21.90	0.60	0.00	0.60				
21.95	0.60	0.00	0.60				
22.00	0.60	0.00	0.60				
22.05	0.60	0.00	0.60				
22.10	0.59	0.00	0.59				
22.15	0.59	0.00	0.59				
22.20	0.59	0.00	0.59				
22.25	0.59	0.00	0.59				
22.30	0.58	0.00	0.58				
22.35	0.58	0.00	0.58				
22.40	0.58	0.00	0.58				
22.45	0.58	0.00	0.58				
22.50	0.57	0.00	0.57				
22.55	0.57	0.00	0.57				
22.60	0.57	0.00	0.57				
22.65	0.57	0.00	0.57				
22.70	0.56	0.00	0.56				
22.75	0.56	0.00	0.56				
22.80	0.56	0.00	0.56				
22.85	0.56	0.00	0.56				
22.90	0.55	0.00	0.55				
22.95	0.55	0.00	0.55				
23.00	0.55	0.00	0.55				
23.05	0.55	0.00	0.55				
23.10	0.55	0.00	0.55				
23.15	0.54	0.00	0.54				
23.20	0.54	0.00	0.54				
23.25	0.54	0.00	0.54				
23.30	0.53	0.00	0.53				
23.35	0.53	0.00	0.53				

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment PDA 4 Perv: PDA4 PERV Runoff Area=0.110 ac 0.00% Impervious Runoff Depth>6.12"
Flow Length=117' Tc=1.2 min CN=84 Runoff=0.94 cfs 0.056 af

Subcatchment PDA1AIMP: PDA1A IMP Runoff Area=1.110 ac 100.00% Impervious Runoff Depth>7.78"
Flow Length=332' Tc=2.2 min CN=98 Runoff=9.99 cfs 0.720 af

Subcatchment PDA1APERV: PDA-1APERV Runoff Area=0.270 ac 0.00% Impervious Runoff Depth>6.09"
Flow Length=518' Tc=13.5 min CN=84 Runoff=1.17 cfs 0.137 af

Subcatchment PDA1B IMP: PDA1B IMP Runoff Area=2.680 ac 93.66% Impervious Runoff Depth>7.78"
Flow Length=618' Tc=4.1 min CN=98 Runoff=21.22 cfs 1.738 af

Subcatchment PDA1B PERV: PDA-1B PERV Runoff Area=0.440 ac 0.00% Impervious Runoff Depth>3.12"
Flow Length=761' Tc=5.4 min CN=58 Runoff=1.48 cfs 0.115 af

Subcatchment PDA2 IMP: PDA2 IMP Runoff Area=0.310 ac 100.00% Impervious Runoff Depth>7.78"
Flow Length=351' Tc=2.2 min CN=98 Runoff=2.79 cfs 0.201 af

Subcatchment PDA3 IMP: PDA3 IMP Runoff Area=1.110 ac 100.00% Impervious Runoff Depth>7.78"
Flow Length=804' Tc=4.7 min CN=98 Runoff=8.43 cfs 0.720 af

Subcatchment PDA3 PERV: PDA3 PERV Runoff Area=0.540 ac 0.00% Impervious Runoff Depth>6.12"
Flow Length=131' Tc=3.4 min CN=84 Runoff=3.99 cfs 0.275 af

Subcatchment PDA4 IMP: PDA4 IMP Runoff Area=1.500 ac 100.00% Impervious Runoff Depth>7.78"
Flow Length=388' Tc=2.9 min CN=98 Runoff=12.86 cfs 0.973 af

Link P1A: P1A Inflow=10.81 cfs 0.857 af
Primary=10.81 cfs 0.857 af

Link P1B: P1B Inflow=25.28 cfs 2.053 af
Primary=25.28 cfs 2.053 af

Link PPOI-1: PPOI-1 Inflow=61.81 cfs 4.934 af
Primary=61.81 cfs 4.934 af

Total Runoff Area = 8.070 ac Runoff Volume = 4.934 af Average Runoff Depth = 7.34"
18.96% Pervious = 1.530 ac 81.04% Impervious = 6.540 ac

Summary for Subcatchment PDA 4 Perv: PDA4 PERV

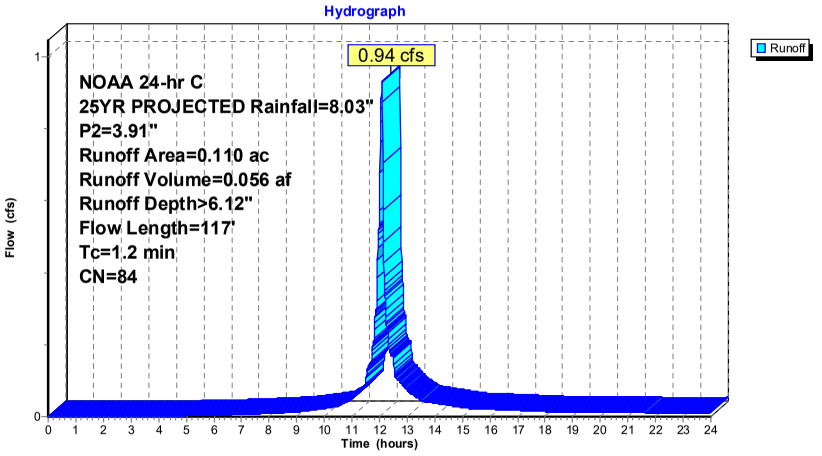
Runoff = 0.94 cfs @ 12.10 hrs, Volume= 0.056 af, Depth> 6.12"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR PROJECTED Rainfall=8.03", P2=3.91"

Area (ac)	CN	Description
* 0.110	84	>75% Grass cover, Good, HSG D
0.110		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	5	0.3300	0.32		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
0.6	64	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.3	48	0.0040	2.89	3.54	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
1.2	117	Total			

Subcatchment PDA 4 Perv: PDA4 PERV



Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.24	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.25	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.25	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.26	0.00	0.00
0.20	0.02	0.00	0.00	2.80	0.26	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.27	0.00	0.00
0.30	0.03	0.00	0.00	2.90	0.27	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.28	0.00	0.00
0.40	0.04	0.00	0.00	3.00	0.28	0.00	0.00
0.45	0.04	0.00	0.00	3.05	0.29	0.00	0.00
0.50	0.04	0.00	0.00	3.10	0.29	0.00	0.00
0.55	0.05	0.00	0.00	3.15	0.30	0.00	0.00
0.60	0.05	0.00	0.00	3.20	0.30	0.00	0.00
0.65	0.06	0.00	0.00	3.25	0.31	0.00	0.00
0.70	0.06	0.00	0.00	3.30	0.32	0.00	0.00
0.75	0.07	0.00	0.00	3.35	0.32	0.00	0.00
0.80	0.07	0.00	0.00	3.40	0.33	0.00	0.00
0.85	0.07	0.00	0.00	3.45	0.33	0.00	0.00
0.90	0.08	0.00	0.00	3.50	0.34	0.00	0.00
0.95	0.08	0.00	0.00	3.55	0.34	0.00	0.00
1.00	0.09	0.00	0.00	3.60	0.35	0.00	0.00
1.05	0.09	0.00	0.00	3.65	0.35	0.00	0.00
1.10	0.10	0.00	0.00	3.70	0.36	0.00	0.00
1.15	0.10	0.00	0.00	3.75	0.36	0.00	0.00
1.20	0.11	0.00	0.00	3.80	0.37	0.00	0.00
1.25	0.11	0.00	0.00	3.85	0.38	0.00	0.00
1.30	0.12	0.00	0.00	3.90	0.38	0.00	0.00
1.35	0.12	0.00	0.00	3.95	0.39	0.00	0.00
1.40	0.12	0.00	0.00	4.00	0.39	0.00	0.00
1.45	0.13	0.00	0.00	4.05	0.40	0.00	0.00
1.50	0.13	0.00	0.00	4.10	0.40	0.00	0.00
1.55	0.14	0.00	0.00	4.15	0.41	0.00	0.00
1.60	0.14	0.00	0.00	4.20	0.42	0.00	0.00
1.65	0.15	0.00	0.00	4.25	0.42	0.00	0.00
1.70	0.15	0.00	0.00	4.30	0.43	0.00	0.00
1.75	0.16	0.00	0.00	4.35	0.43	0.00	0.00
1.80	0.16	0.00	0.00	4.40	0.44	0.00	0.00
1.85	0.17	0.00	0.00	4.45	0.45	0.00	0.00
1.90	0.17	0.00	0.00	4.50	0.45	0.00	0.00
1.95	0.18	0.00	0.00	4.55	0.46	0.00	0.00
2.00	0.18	0.00	0.00	4.60	0.46	0.00	0.00
2.05	0.19	0.00	0.00	4.65	0.47	0.00	0.00
2.10	0.19	0.00	0.00	4.70	0.47	0.00	0.00
2.15	0.20	0.00	0.00	4.75	0.48	0.00	0.00
2.20	0.20	0.00	0.00	4.80	0.49	0.01	0.00
2.25	0.21	0.00	0.00	4.85	0.49	0.01	0.00
2.30	0.21	0.00	0.00	4.90	0.50	0.01	0.00
2.35	0.22	0.00	0.00	4.95	0.50	0.01	0.00
2.40	0.22	0.00	0.00	5.00	0.51	0.01	0.00
2.45	0.23	0.00	0.00	5.05	0.52	0.01	0.00
2.50	0.23	0.00	0.00	5.10	0.52	0.01	0.00
2.55	0.24	0.00	0.00	5.15	0.53	0.01	0.00

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.54	0.01	0.00	7.80	0.92	0.12	0.01
5.25	0.54	0.01	0.00	7.85	0.93	0.12	0.01
5.30	0.55	0.01	0.00	7.90	0.94	0.13	0.01
5.35	0.55	0.01	0.00	7.95	0.95	0.13	0.01
5.40	0.56	0.02	0.00	8.00	0.96	0.14	0.01
5.45	0.57	0.02	0.00	8.05	0.97	0.14	0.01
5.50	0.57	0.02	0.00	8.10	0.98	0.14	0.01
5.55	0.58	0.02	0.00	8.15	0.99	0.15	0.01
5.60	0.59	0.02	0.00	8.20	1.00	0.15	0.01
5.65	0.59	0.02	0.00	8.25	1.01	0.16	0.01
5.70	0.60	0.02	0.00	8.30	1.02	0.16	0.01
5.75	0.60	0.02	0.00	8.35	1.03	0.17	0.01
5.80	0.61	0.02	0.00	8.40	1.04	0.17	0.01
5.85	0.62	0.03	0.00	8.45	1.05	0.18	0.01
5.90	0.62	0.03	0.00	8.50	1.06	0.18	0.01
5.95	0.63	0.03	0.00	8.55	1.07	0.18	0.01
6.00	0.64	0.03	0.00	8.60	1.08	0.19	0.01
6.05	0.64	0.03	0.00	8.65	1.10	0.19	0.01
6.10	0.65	0.03	0.00	8.70	1.11	0.20	0.01
6.15	0.66	0.03	0.00	8.75	1.12	0.21	0.01
6.20	0.66	0.04	0.00	8.80	1.13	0.21	0.01
6.25	0.67	0.04	0.00	8.85	1.14	0.22	0.01
6.30	0.68	0.04	0.00	8.90	1.15	0.22	0.01
6.35	0.68	0.04	0.00	8.95	1.16	0.23	0.01
6.40	0.69	0.04	0.00	9.00	1.17	0.23	0.01
6.45	0.70	0.05	0.00	9.05	1.18	0.24	0.01
6.50	0.71	0.05	0.00	9.10	1.20	0.24	0.01
6.55	0.71	0.05	0.00	9.15	1.21	0.25	0.01
6.60	0.72	0.05	0.00	9.20	1.22	0.26	0.01
6.65	0.73	0.05	0.00	9.25	1.23	0.26	0.01
6.70	0.74	0.06	0.00	9.30	1.25	0.27	0.02
6.75	0.74	0.06	0.00	9.35	1.26	0.28	0.02
6.80	0.75	0.06	0.01	9.40	1.27	0.29	0.02
6.85	0.76	0.06	0.01	9.45	1.29	0.29	0.02
6.90	0.77	0.07	0.01	9.50	1.30	0.30	0.02
6.95	0.78	0.07	0.01	9.55	1.32	0.31	0.02
7.00	0.78	0.07	0.01	9.60	1.33	0.32	0.02
7.05	0.79	0.07	0.01	9.65	1.35	0.33	0.02
7.10	0.80	0.08	0.01	9.70	1.36	0.33	0.02
7.15	0.81	0.08	0.01	9.75	1.38	0.34	0.02
7.20	0.82	0.08	0.01	9.80	1.40	0.35	0.02
7.25	0.83	0.08	0.01	9.85	1.41	0.36	0.02
7.30	0.83	0.09	0.01	9.90	1.43	0.37	0.02
7.35	0.84	0.09	0.01	9.95	1.45	0.38	0.02
7.40	0.85	0.09	0.01	10.00	1.46	0.39	0.02
7.45	0.86	0.10	0.01	10.05	1.48	0.40	0.02
7.50	0.87	0.10	0.01	10.10	1.50	0.41	0.02
7.55	0.88	0.10	0.01	10.15	1.52	0.43	0.02
7.60	0.89	0.11	0.01	10.20	1.54	0.44	0.03
7.65	0.90	0.11	0.01	10.25	1.56	0.45	0.03
7.70	0.91	0.11	0.01	10.30	1.58	0.46	0.03
7.75	0.91	0.12	0.01	10.35	1.59	0.47	0.03

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.61	0.48	0.03	13.00	6.10	4.29	0.08
10.45	1.63	0.50	0.03	13.05	6.13	4.32	0.07
10.50	1.65	0.51	0.03	13.10	6.17	4.35	0.07
10.55	1.68	0.53	0.03	13.15	6.20	4.38	0.06
10.60	1.70	0.54	0.03	13.20	6.23	4.41	0.06
10.65	1.73	0.56	0.04	13.25	6.25	4.43	0.06
10.70	1.75	0.57	0.04	13.30	6.28	4.46	0.06
10.75	1.78	0.59	0.04	13.35	6.30	4.48	0.05
10.80	1.80	0.61	0.04	13.40	6.33	4.51	0.05
10.85	1.83	0.63	0.04	13.45	6.35	4.53	0.05
10.90	1.86	0.65	0.04	13.50	6.38	4.55	0.05
10.95	1.90	0.67	0.05	13.55	6.40	4.57	0.04
11.00	1.93	0.69	0.05	13.60	6.42	4.59	0.04
11.05	1.96	0.72	0.05	13.65	6.44	4.61	0.04
11.10	2.00	0.74	0.06	13.70	6.45	4.62	0.04
11.15	2.04	0.77	0.06	13.75	6.47	4.64	0.04
11.20	2.08	0.80	0.06	13.80	6.49	4.66	0.04
11.25	2.13	0.83	0.07	13.85	6.51	4.68	0.04
11.30	2.17	0.87	0.07	13.90	6.53	4.69	0.04
11.35	2.22	0.90	0.08	13.95	6.55	4.71	0.04
11.40	2.27	0.94	0.08	14.00	6.57	4.73	0.04
11.45	2.32	0.98	0.09	14.05	6.58	4.74	0.04
11.50	2.37	1.02	0.09	14.10	6.60	4.76	0.04
11.55	2.45	1.08	0.13	14.15	6.62	4.78	0.04
11.60	2.54	1.14	0.14	14.20	6.63	4.79	0.04
11.65	2.62	1.21	0.15	14.25	6.65	4.81	0.03
11.70	2.71	1.28	0.15	14.30	6.67	4.82	0.03
11.75	2.82	1.37	0.20	14.35	6.68	4.84	0.03
11.80	2.94	1.47	0.21	14.40	6.70	4.85	0.03
11.85	3.10	1.60	0.28	14.45	6.71	4.87	0.03
11.90	3.27	1.74	0.30	14.50	6.73	4.88	0.03
11.95	3.55	1.98	0.49	14.55	6.74	4.89	0.03
12.00	3.83	2.22	0.54	14.60	6.76	4.91	0.03
12.05	4.30	2.63	0.86	14.65	6.77	4.92	0.03
12.10	4.76	3.06	**0.93**	14.70	6.78	4.93	0.03
12.15	4.93	3.20	0.43	14.75	6.80	4.95	0.03
12.20	5.09	3.35	0.34	14.80	6.81	4.96	0.03
12.25	5.21	3.46	0.25	14.85	6.82	4.97	0.03
12.30	5.32	3.57	0.24	14.90	6.83	4.98	0.03
12.35	5.41	3.65	0.19	14.95	6.85	4.99	0.03
12.40	5.49	3.73	0.18	15.00	6.86	5.00	0.02
12.45	5.58	3.80	0.17	15.05	6.87	5.02	0.02
12.50	5.66	3.88	0.17	15.10	6.88	5.03	0.02
12.55	5.71	3.93	0.12	15.15	6.89	5.04	0.02
12.60	5.76	3.97	0.11	15.20	6.90	5.05	0.02
12.65	5.81	4.02	0.10	15.25	6.91	5.06	0.02
12.70	5.86	4.07	0.10	15.30	6.92	5.07	0.02
12.75	5.90	4.11	0.09	15.35	6.93	5.08	0.02
12.80	5.95	4.15	0.09	15.40	6.95	5.09	0.02
12.85	5.99	4.19	0.09	15.45	6.96	5.10	0.02
12.90	6.03	4.23	0.08	15.50	6.97	5.11	0.02
12.95	6.07	4.26	0.08	15.55	6.98	5.12	0.02

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	6.99	5.13	0.02	18.20	7.42	5.54	0.01
15.65	7.00	5.14	0.02	18.25	7.43	5.55	0.01
15.70	7.01	5.15	0.02	18.30	7.43	5.55	0.01
15.75	7.02	5.16	0.02	18.35	7.44	5.56	0.01
15.80	7.03	5.17	0.02	18.40	7.44	5.56	0.01
15.85	7.04	5.18	0.02	18.45	7.45	5.57	0.01
15.90	7.05	5.19	0.02	18.50	7.46	5.58	0.01
15.95	7.06	5.20	0.02	18.55	7.46	5.58	0.01
16.00	7.07	5.20	0.02	18.60	7.47	5.59	0.01
16.05	7.08	5.21	0.02	18.65	7.48	5.59	0.01
16.10	7.09	5.22	0.02	18.70	7.48	5.60	0.01
16.15	7.10	5.23	0.02	18.75	7.49	5.61	0.01
16.20	7.11	5.24	0.02	18.80	7.49	5.61	0.01
16.25	7.12	5.25	0.02	18.85	7.50	5.62	0.01
16.30	7.12	5.26	0.02	18.90	7.51	5.62	0.01
16.35	7.13	5.27	0.02	18.95	7.51	5.63	0.01
16.40	7.14	5.28	0.02	19.00	7.52	5.63	0.01
16.45	7.15	5.28	0.02	19.05	7.53	5.64	0.01
16.50	7.16	5.29	0.02	19.10	7.53	5.65	0.01
16.55	7.17	5.30	0.02	19.15	7.54	5.65	0.01
16.60	7.18	5.31	0.02	19.20	7.54	5.66	0.01
16.65	7.19	5.32	0.02	19.25	7.55	5.66	0.01
16.70	7.20	5.33	0.02	19.30	7.56	5.67	0.01
16.75	7.20	5.33	0.02	19.35	7.56	5.67	0.01
16.80	7.21	5.34	0.02	19.40	7.57	5.68	0.01
16.85	7.22	5.35	0.02	19.45	7.57	5.69	0.01
16.90	7.23	5.36	0.02	19.50	7.58	5.69	0.01
16.95	7.24	5.37	0.02	19.55	7.58	5.70	0.01
17.00	7.25	5.37	0.02	19.60	7.59	5.70	0.01
17.05	7.25	5.38	0.02	19.65	7.60	5.71	0.01
17.10	7.26	5.39	0.02	19.70	7.60	5.71	0.01
17.15	7.27	5.40	0.02	19.75	7.61	5.72	0.01
17.20	7.28	5.41	0.02	19.80	7.61	5.73	0.01
17.25	7.29	5.41	0.02	19.85	7.62	5.73	0.01
17.30	7.29	5.42	0.02	19.90	7.63	5.74	0.01
17.35	7.30	5.43	0.02	19.95	7.63	5.74	0.01
17.40	7.31	5.43	0.02	20.00	7.64	5.75	0.01
17.45	7.32	5.44	0.02	20.05	7.64	5.75	0.01
17.50	7.32	5.45	0.02	20.10	7.65	5.76	0.01
17.55	7.33	5.46	0.02	20.15	7.65	5.76	0.01
17.60	7.34	5.46	0.02	20.20	7.66	5.77	0.01
17.65	7.35	5.47	0.02	20.25	7.67	5.77	0.01
17.70	7.35	5.48	0.02	20.30	7.67	5.78	0.01
17.75	7.36	5.48	0.01	20.35	7.68	5.78	0.01
17.80	7.37	5.49	0.01	20.40	7.68	5.79	0.01
17.85	7.37	5.50	0.01	20.45	7.69	5.80	0.01
17.90	7.38	5.50	0.01	20.50	7.69	5.80	0.01
17.95	7.39	5.51	0.01	20.55	7.70	5.81	0.01
18.00	7.39	5.51	0.01	20.60	7.70	5.81	0.01
18.05	7.40	5.52	0.01	20.65	7.71	5.82	0.01
18.10	7.41	5.53	0.01	20.70	7.71	5.82	0.01
18.15	7.41	5.53	0.01	20.75	7.72	5.83	0.01

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	7.73	5.83	0.01	23.40	7.98	6.07	0.01
20.85	7.73	5.84	0.01	23.45	7.98	6.08	0.01
20.90	7.74	5.84	0.01	23.50	7.99	6.08	0.01
20.95	7.74	5.85	0.01	23.55	7.99	6.09	0.01
21.00	7.75	5.85	0.01	23.60	7.99	6.09	0.01
21.05	7.75	5.86	0.01	23.65	8.00	6.09	0.01
21.10	7.76	5.86	0.01	23.70	8.00	6.10	0.01
21.15	7.76	5.87	0.01	23.75	8.01	6.10	0.01
21.20	7.77	5.87	0.01	23.80	8.01	6.11	0.01
21.25	7.77	5.88	0.01	23.85	8.02	6.11	0.01
21.30	7.78	5.88	0.01	23.90	8.02	6.11	0.01
21.35	7.78	5.89	0.01	23.95	8.02	6.12	0.01
21.40	7.79	5.89	0.01	24.00	**8.03**	**6.12**	0.01
21.45	7.79	5.90	0.01				
21.50	7.80	5.90	0.01				
21.55	7.80	5.91	0.01				
21.60	7.81	5.91	0.01				
21.65	7.81	5.92	0.01				
21.70	7.82	5.92	0.01				
21.75	7.82	5.93	0.01				
21.80	7.83	5.93	0.01				
21.85	7.83	5.94	0.01				
21.90	7.84	5.94	0.01				
21.95	7.84	5.95	0.01				
22.00	7.85	5.95	0.01				
22.05	7.85	5.95	0.01				
22.10	7.86	5.96	0.01				
22.15	7.86	5.96	0.01				
22.20	7.87	5.97	0.01				
22.25	7.87	5.97	0.01				
22.30	7.88	5.98	0.01				
22.35	7.88	5.98	0.01				
22.40	7.89	5.99	0.01				
22.45	7.89	5.99	0.01				
22.50	7.90	6.00	0.01				
22.55	7.90	6.00	0.01				
22.60	7.91	6.00	0.01				
22.65	7.91	6.01	0.01				
22.70	7.91	6.01	0.01				
22.75	7.92	6.02	0.01				
22.80	7.92	6.02	0.01				
22.85	7.93	6.03	0.01				
22.90	7.93	6.03	0.01				
22.95	7.94	6.04	0.01				
23.00	7.94	6.04	0.01				
23.05	7.95	6.04	0.01				
23.10	7.95	6.05	0.01				
23.15	7.96	6.05	0.01				
23.20	7.96	6.06	0.01				
23.25	7.96	6.06	0.01				
23.30	7.97	6.07	0.01				
23.35	7.97	6.07	0.01				

Summary for Subcatchment PDA1A IMP: PDA1A IMP

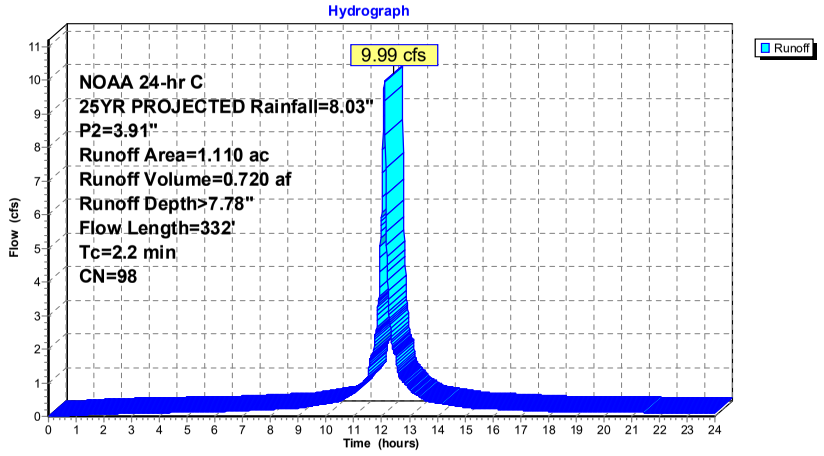
Runoff = 9.99 cfs @ 12.11 hrs, Volume= 0.720 af, Depth> 7.78"
Routed to Link P1A : P1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR PROJECTED Rainfall=8.03", P2=3.91"

	Area (ac)	CN	Description
*	0.340	98	Impervious vehicular
	0.770	98	Roofs, HSG D
	1.110	98	Weighted Average
	1.110		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0160	1.39		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.4	47	0.0100	2.03		**Shallow Concentrated Flow, paved** Paved Kv= 20.3 fps
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
2.2	332	Total			

Subcatchment PDA1A IMP: PDA1A IMP



Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.24	0.10	0.08
0.05	0.01	0.00	0.00	2.65	0.25	0.10	0.09
0.10	0.01	0.00	0.00	2.70	0.25	0.11	0.09
0.15	0.01	0.00	0.00	2.75	0.26	0.11	0.09
0.20	0.02	0.00	0.00	2.80	0.26	0.12	0.09
0.25	0.02	0.00	0.00	2.85	0.27	0.12	0.09
0.30	0.03	0.00	0.00	2.90	0.27	0.12	0.09
0.35	0.03	0.00	0.00	2.95	0.28	0.13	0.09
0.40	0.04	0.00	0.00	3.00	0.28	0.13	0.09
0.45	0.04	0.00	0.00	3.05	0.29	0.14	0.09
0.50	0.04	0.00	0.00	3.10	0.29	0.14	0.09
0.55	0.05	0.00	0.00	3.15	0.30	0.14	0.10
0.60	0.05	0.00	0.01	3.20	0.30	0.15	0.10
0.65	0.06	0.00	0.01	3.25	0.31	0.15	0.10
0.70	0.06	0.00	0.01	3.30	0.32	0.16	0.10
0.75	0.07	0.00	0.02	3.35	0.32	0.16	0.10
0.80	0.07	0.00	0.02	3.40	0.33	0.17	0.10
0.85	0.07	0.00	0.02	3.45	0.33	0.17	0.10
0.90	0.08	0.01	0.03	3.50	0.34	0.18	0.10
0.95	0.08	0.01	0.03	3.55	0.34	0.18	0.10
1.00	0.09	0.01	0.03	3.60	0.35	0.18	0.10
1.05	0.09	0.01	0.03	3.65	0.35	0.19	0.10
1.10	0.10	0.01	0.04	3.70	0.36	0.19	0.10
1.15	0.10	0.01	0.04	3.75	0.36	0.20	0.11
1.20	0.11	0.02	0.04	3.80	0.37	0.20	0.11
1.25	0.11	0.02	0.04	3.85	0.38	0.21	0.11
1.30	0.12	0.02	0.05	3.90	0.38	0.21	0.11
1.35	0.12	0.02	0.05	3.95	0.39	0.22	0.11
1.40	0.12	0.02	0.05	4.00	0.39	0.22	0.11
1.45	0.13	0.03	0.05	4.05	0.40	0.23	0.11
1.50	0.13	0.03	0.05	4.10	0.40	0.23	0.11
1.55	0.14	0.03	0.06	4.15	0.41	0.24	0.11
1.60	0.14	0.03	0.06	4.20	0.42	0.24	0.11
1.65	0.15	0.04	0.06	4.25	0.42	0.25	0.11
1.70	0.15	0.04	0.06	4.30	0.43	0.25	0.11
1.75	0.16	0.04	0.06	4.35	0.43	0.26	0.11
1.80	0.16	0.05	0.06	4.40	0.44	0.26	0.12
1.85	0.17	0.05	0.07	4.45	0.45	0.27	0.12
1.90	0.17	0.05	0.07	4.50	0.45	0.27	0.12
1.95	0.18	0.05	0.07	4.55	0.46	0.28	0.12
2.00	0.18	0.06	0.07	4.60	0.46	0.28	0.12
2.05	0.19	0.06	0.07	4.65	0.47	0.29	0.12
2.10	0.19	0.06	0.07	4.70	0.47	0.29	0.12
2.15	0.20	0.07	0.07	4.75	0.48	0.30	0.12
2.20	0.20	0.07	0.07	4.80	0.49	0.31	0.12
2.25	0.21	0.07	0.08	4.85	0.49	0.31	0.12
2.30	0.21	0.08	0.08	4.90	0.50	0.32	0.12
2.35	0.22	0.08	0.08	4.95	0.50	0.32	0.12
2.40	0.22	0.08	0.08	5.00	0.51	0.33	0.12
2.45	0.23	0.09	0.08	5.05	0.52	0.33	0.12
2.50	0.23	0.09	0.08	5.10	0.52	0.34	0.12
2.55	0.24	0.10	0.08	5.15	0.53	0.34	0.12

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.54	0.35	0.13	7.80	0.92	0.72	0.20
5.25	0.54	0.36	0.13	7.85	0.93	0.73	0.20
5.30	0.55	0.36	0.13	7.90	0.94	0.74	0.21
5.35	0.55	0.37	0.13	7.95	0.95	0.74	0.21
5.40	0.56	0.37	0.13	8.00	0.96	0.75	0.21
5.45	0.57	0.38	0.13	8.05	0.97	0.76	0.21
5.50	0.57	0.38	0.13	8.10	0.98	0.77	0.21
5.55	0.58	0.39	0.13	8.15	0.99	0.78	0.21
5.60	0.59	0.40	0.13	8.20	1.00	0.79	0.22
5.65	0.59	0.40	0.13	8.25	1.01	0.80	0.22
5.70	0.60	0.41	0.13	8.30	1.02	0.81	0.22
5.75	0.60	0.41	0.13	8.35	1.03	0.82	0.22
5.80	0.61	0.42	0.13	8.40	1.04	0.83	0.22
5.85	0.62	0.43	0.13	8.45	1.05	0.84	0.23
5.90	0.62	0.43	0.13	8.50	1.06	0.85	0.23
5.95	0.63	0.44	0.13	8.55	1.07	0.86	0.23
6.00	0.64	0.44	0.13	8.60	1.08	0.87	0.23
6.05	0.64	0.45	0.14	8.65	1.10	0.88	0.23
6.10	0.65	0.46	0.14	8.70	1.11	0.89	0.23
6.15	0.66	0.46	0.14	8.75	1.12	0.90	0.24
6.20	0.66	0.47	0.14	8.80	1.13	0.92	0.24
6.25	0.67	0.48	0.14	8.85	1.14	0.93	0.24
6.30	0.68	0.48	0.15	8.90	1.15	0.94	0.24
6.35	0.68	0.49	0.15	8.95	1.16	0.95	0.24
6.40	0.69	0.50	0.15	9.00	1.17	0.96	0.25
6.45	0.70	0.50	0.15	9.05	1.18	0.97	0.25
6.50	0.71	0.51	0.15	9.10	1.20	0.98	0.26
6.55	0.71	0.52	0.16	9.15	1.21	0.99	0.27
6.60	0.72	0.52	0.16	9.20	1.22	1.01	0.27
6.65	0.73	0.53	0.16	9.25	1.23	1.02	0.28
6.70	0.74	0.54	0.16	9.30	1.25	1.03	0.28
6.75	0.74	0.54	0.16	9.35	1.26	1.05	0.29
6.80	0.75	0.55	0.16	9.40	1.27	1.06	0.30
6.85	0.76	0.56	0.17	9.45	1.29	1.07	0.31
6.90	0.77	0.57	0.17	9.50	1.30	1.09	0.31
6.95	0.78	0.57	0.17	9.55	1.32	1.10	0.32
7.00	0.78	0.58	0.17	9.60	1.33	1.12	0.33
7.05	0.79	0.59	0.17	9.65	1.35	1.13	0.33
7.10	0.80	0.60	0.18	9.70	1.36	1.15	0.34
7.15	0.81	0.61	0.18	9.75	1.38	1.16	0.35
7.20	0.82	0.61	0.18	9.80	1.40	1.18	0.35
7.25	0.83	0.62	0.18	9.85	1.41	1.19	0.36
7.30	0.83	0.63	0.18	9.90	1.43	1.21	0.37
7.35	0.84	0.64	0.18	9.95	1.45	1.23	0.37
7.40	0.85	0.65	0.19	10.00	1.46	1.24	0.38
7.45	0.86	0.66	0.19	10.05	1.48	1.26	0.39
7.50	0.87	0.66	0.19	10.10	1.50	1.28	0.39
7.55	0.88	0.67	0.19	10.15	1.52	1.30	0.40
7.60	0.89	0.68	0.19	10.20	1.54	1.32	0.41
7.65	0.90	0.69	0.20	10.25	1.56	1.34	0.41
7.70	0.91	0.70	0.20	10.30	1.58	1.35	0.42
7.75	0.91	0.71	0.20	10.35	1.59	1.37	0.43

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.61	1.39	0.43	13.00	6.10	5.86	0.82
10.45	1.63	1.41	0.44	13.05	6.13	5.90	0.76
10.50	1.65	1.43	0.45	13.10	6.17	5.93	0.72
10.55	1.68	1.46	0.48	13.15	6.20	5.96	0.69
10.60	1.70	1.48	0.49	13.20	6.23	5.99	0.67
10.65	1.73	1.50	0.53	13.25	6.25	6.01	0.63
10.70	1.75	1.53	0.54	13.30	6.28	6.04	0.62
10.75	1.78	1.55	0.58	13.35	6.30	6.07	0.58
10.80	1.80	1.58	0.60	13.40	6.33	6.09	0.56
10.85	1.83	1.61	0.63	13.45	6.35	6.11	0.53
10.90	1.86	1.64	0.65	13.50	6.38	6.14	0.51
10.95	1.90	1.67	0.68	13.55	6.40	6.16	0.48
11.00	1.93	1.70	0.70	13.60	6.42	6.18	0.46
11.05	1.96	1.74	0.76	13.65	6.44	6.20	0.45
11.10	2.00	1.77	0.79	13.70	6.45	6.22	0.44
11.15	2.04	1.81	0.85	13.75	6.47	6.24	0.43
11.20	2.08	1.85	0.89	13.80	6.49	6.25	0.43
11.25	2.13	1.90	0.95	13.85	6.51	6.27	0.42
11.30	2.17	1.94	0.98	13.90	6.53	6.29	0.42
11.35	2.22	1.99	1.04	13.95	6.55	6.31	0.41
11.40	2.27	2.04	1.08	14.00	6.57	6.33	0.40
11.45	2.32	2.09	1.13	14.05	6.58	6.34	0.39
11.50	2.37	2.14	1.15	14.10	6.60	6.36	0.39
11.55	2.45	2.23	1.51	14.15	6.62	6.38	0.38
11.60	2.54	2.31	1.72	14.20	6.63	6.40	0.38
11.65	2.62	2.39	1.84	14.25	6.65	6.41	0.37
11.70	2.71	2.48	1.89	14.30	6.67	6.43	0.36
11.75	2.82	2.59	2.29	14.35	6.68	6.44	0.35
11.80	2.94	2.71	2.52	14.40	6.70	6.46	0.35
11.85	3.10	2.87	3.15	14.45	6.71	6.47	0.34
11.90	3.27	3.03	3.49	14.50	6.73	6.49	0.33
11.95	3.55	3.31	5.05	14.55	6.74	6.50	0.33
12.00	3.83	3.59	5.92	14.60	6.76	6.52	0.32
12.05	4.30	4.06	8.49	14.65	6.77	6.53	0.31
12.10	4.76	4.53	**9.90**	14.70	6.78	6.54	0.31
12.15	4.93	4.69	**6.59**	14.75	6.80	6.56	0.30
12.20	5.09	4.85	4.50	14.80	6.81	6.57	0.29
12.25	5.21	4.97	3.27	14.85	6.82	6.58	0.29
12.30	5.32	5.09	2.79	14.90	6.83	6.59	0.28
12.35	5.41	5.17	2.26	14.95	6.85	6.61	0.27
12.40	5.49	5.26	2.01	15.00	6.86	6.62	0.27
12.45	5.58	5.34	1.88	15.05	6.87	6.63	0.26
12.50	5.66	5.42	1.83	15.10	6.88	6.64	0.25
12.55	5.71	5.47	1.46	15.15	6.89	6.65	0.25
12.60	5.76	5.52	1.26	15.20	6.90	6.66	0.25
12.65	5.81	5.57	1.15	15.25	6.91	6.67	0.25
12.70	5.86	5.62	1.11	15.30	6.92	6.68	0.24
12.75	5.90	5.67	1.05	15.35	6.93	6.70	0.24
12.80	5.95	5.71	1.01	15.40	6.95	6.71	0.24
12.85	5.99	5.75	0.95	15.45	6.96	6.72	0.24
12.90	6.03	5.79	0.92	15.50	6.97	6.73	0.24
12.95	6.07	5.83	0.85	15.55	6.98	6.74	0.24

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	6.99	6.75	0.23	18.20	7.42	7.18	0.14
15.65	7.00	6.76	0.23	18.25	7.43	7.19	0.14
15.70	7.01	6.77	0.23	18.30	7.43	7.19	0.14
15.75	7.02	6.78	0.23	18.35	7.44	7.20	0.14
15.80	7.03	6.79	0.23	18.40	7.44	7.21	0.14
15.85	7.04	6.80	0.22	18.45	7.45	7.21	0.14
15.90	7.05	6.81	0.22	18.50	7.46	7.22	0.14
15.95	7.06	6.82	0.22	18.55	7.46	7.22	0.14
16.00	7.07	6.83	0.22	18.60	7.47	7.23	0.14
16.05	7.08	6.84	0.22	18.65	7.48	7.24	0.14
16.10	7.09	6.85	0.22	18.70	7.48	7.24	0.14
16.15	7.10	6.86	0.21	18.75	7.49	7.25	0.14
16.20	7.11	6.87	0.21	18.80	7.49	7.26	0.14
16.25	7.12	6.88	0.21	18.85	7.50	7.26	0.14
16.30	7.12	6.89	0.21	18.90	7.51	7.27	0.14
16.35	7.13	6.89	0.21	18.95	7.51	7.27	0.14
16.40	7.14	6.90	0.21	19.00	7.52	7.28	0.14
16.45	7.15	6.91	0.20	19.05	7.53	7.29	0.14
16.50	7.16	6.92	0.20	19.10	7.53	7.29	0.14
16.55	7.17	6.93	0.20	19.15	7.54	7.30	0.14
16.60	7.18	6.94	0.20	19.20	7.54	7.30	0.13
16.65	7.19	6.95	0.20	19.25	7.55	7.31	0.13
16.70	7.20	6.96	0.20	19.30	7.56	7.32	0.13
16.75	7.20	6.97	0.19	19.35	7.56	7.32	0.13
16.80	7.21	6.97	0.19	19.40	7.57	7.33	0.13
16.85	7.22	6.98	0.19	19.45	7.57	7.33	0.13
16.90	7.23	6.99	0.19	19.50	7.58	7.34	0.13
16.95	7.24	7.00	0.19	19.55	7.58	7.35	0.13
17.00	7.25	7.01	0.18	19.60	7.59	7.35	0.13
17.05	7.25	7.02	0.18	19.65	7.60	7.36	0.13
17.10	7.26	7.02	0.18	19.70	7.60	7.36	0.13
17.15	7.27	7.03	0.18	19.75	7.61	7.37	0.13
17.20	7.28	7.04	0.18	19.80	7.61	7.37	0.13
17.25	7.29	7.05	0.17	19.85	7.62	7.38	0.13
17.30	7.29	7.05	0.17	19.90	7.63	7.39	0.13
17.35	7.30	7.06	0.17	19.95	7.63	7.39	0.13
17.40	7.31	7.07	0.17	20.00	7.64	7.40	0.13
17.45	7.32	7.08	0.17	20.05	7.64	7.40	0.13
17.50	7.32	7.08	0.17	20.10	7.65	7.41	0.13
17.55	7.33	7.09	0.16	20.15	7.65	7.41	0.13
17.60	7.34	7.10	0.16	20.20	7.66	7.42	0.13
17.65	7.35	7.11	0.16	20.25	7.67	7.43	0.13
17.70	7.35	7.11	0.16	20.30	7.67	7.43	0.12
17.75	7.36	7.12	0.16	20.35	7.68	7.44	0.12
17.80	7.37	7.13	0.16	20.40	7.68	7.44	0.12
17.85	7.37	7.13	0.15	20.45	7.69	7.45	0.12
17.90	7.38	7.14	0.15	20.50	7.69	7.45	0.12
17.95	7.39	7.15	0.15	20.55	7.70	7.46	0.12
18.00	7.39	7.15	0.15	20.60	7.70	7.46	0.12
18.05	7.40	7.16	0.15	20.65	7.71	7.47	0.12
18.10	7.41	7.17	0.15	20.70	7.71	7.48	0.12
18.15	7.41	7.17	0.14	20.75	7.72	7.48	0.12

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	7.73	7.49	0.12	23.40	7.98	7.74	0.10
20.85	7.73	7.49	0.12	23.45	7.98	7.74	0.10
20.90	7.74	7.50	0.12	23.50	7.99	7.75	0.10
20.95	7.74	7.50	0.12	23.55	7.99	7.75	0.10
21.00	7.75	7.51	0.12	23.60	7.99	7.75	0.10
21.05	7.75	7.51	0.12	23.65	8.00	7.76	0.10
21.10	7.76	7.52	0.12	23.70	8.00	7.76	0.10
21.15	7.76	7.52	0.12	23.75	8.01	7.77	0.09
21.20	7.77	7.53	0.12	23.80	8.01	7.77	0.09
21.25	7.77	7.53	0.12	23.85	8.02	7.78	0.09
21.30	7.78	7.54	0.12	23.90	8.02	7.78	0.09
21.35	7.78	7.54	0.12	23.95	8.02	7.79	0.10
21.40	7.79	7.55	0.12	24.00	**8.03**	**7.79**	0.11
21.45	7.79	7.55	0.11				
21.50	7.80	7.56	0.11				
21.55	7.80	7.56	0.11				
21.60	7.81	7.57	0.11				
21.65	7.81	7.57	0.11				
21.70	7.82	7.58	0.11				
21.75	7.82	7.58	0.11				
21.80	7.83	7.59	0.11				
21.85	7.83	7.59	0.11				
21.90	7.84	7.60	0.11				
21.95	7.84	7.60	0.11				
22.00	7.85	7.61	0.11				
22.05	7.85	7.61	0.11				
22.10	7.86	7.62	0.11				
22.15	7.86	7.62	0.11				
22.20	7.87	7.63	0.11				
22.25	7.87	7.63	0.11				
22.30	7.88	7.64	0.11				
22.35	7.88	7.64	0.11				
22.40	7.89	7.65	0.11				
22.45	7.89	7.65	0.11				
22.50	7.90	7.66	0.11				
22.55	7.90	7.66	0.11				
22.60	7.91	7.67	0.11				
22.65	7.91	7.67	0.10				
22.70	7.91	7.68	0.10				
22.75	7.92	7.68	0.10				
22.80	7.92	7.68	0.10				
22.85	7.93	7.69	0.10				
22.90	7.93	7.69	0.10				
22.95	7.94	7.70	0.10				
23.00	7.94	7.70	0.10				
23.05	7.95	7.71	0.10				
23.10	7.95	7.71	0.10				
23.15	7.96	7.72	0.10				
23.20	7.96	7.72	0.10				
23.25	7.96	7.72	0.10				
23.30	7.97	7.73	0.10				
23.35	7.97	7.73	0.10				

Summary for Subcatchment PDA1A PERV: PDA-1A PERV

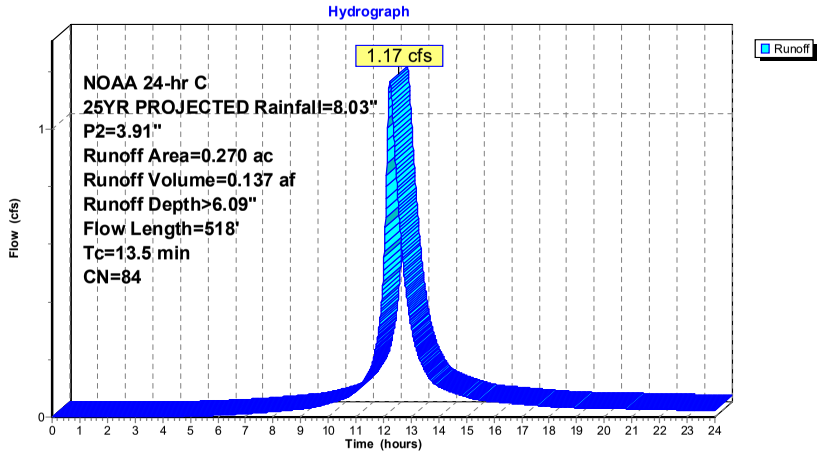
Runoff = 1.17 cfs @ 12.24 hrs, Volume= 0.137 af, Depth> 6.09"
Routed to Link P1A : P1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR PROJECTED Rainfall=8.03", P2=3.91"

	Area (ac)	CN	Description
*	0.270	84	>75% Grass cover, Good, HSG D
	0.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	100	0.0100	0.14		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
0.1	22	0.0075	4.46	7.88	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP-2 Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
13.5	518	Total			

Subcatchment PDA1A PERV: PDA-1A PERV



Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.24	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.25	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.25	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.26	0.00	0.00
0.20	0.02	0.00	0.00	2.80	0.26	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.27	0.00	0.00
0.30	0.03	0.00	0.00	2.90	0.27	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.28	0.00	0.00
0.40	0.04	0.00	0.00	3.00	0.28	0.00	0.00
0.45	0.04	0.00	0.00	3.05	0.29	0.00	0.00
0.50	0.04	0.00	0.00	3.10	0.29	0.00	0.00
0.55	0.05	0.00	0.00	3.15	0.30	0.00	0.00
0.60	0.05	0.00	0.00	3.20	0.30	0.00	0.00
0.65	0.06	0.00	0.00	3.25	0.31	0.00	0.00
0.70	0.06	0.00	0.00	3.30	0.32	0.00	0.00
0.75	0.07	0.00	0.00	3.35	0.32	0.00	0.00
0.80	0.07	0.00	0.00	3.40	0.33	0.00	0.00
0.85	0.07	0.00	0.00	3.45	0.33	0.00	0.00
0.90	0.08	0.00	0.00	3.50	0.34	0.00	0.00
0.95	0.08	0.00	0.00	3.55	0.34	0.00	0.00
1.00	0.09	0.00	0.00	3.60	0.35	0.00	0.00
1.05	0.09	0.00	0.00	3.65	0.35	0.00	0.00
1.10	0.10	0.00	0.00	3.70	0.36	0.00	0.00
1.15	0.10	0.00	0.00	3.75	0.36	0.00	0.00
1.20	0.11	0.00	0.00	3.80	0.37	0.00	0.00
1.25	0.11	0.00	0.00	3.85	0.38	0.00	0.00
1.30	0.12	0.00	0.00	3.90	0.38	0.00	0.00
1.35	0.12	0.00	0.00	3.95	0.39	0.00	0.00
1.40	0.12	0.00	0.00	4.00	0.39	0.00	0.00
1.45	0.13	0.00	0.00	4.05	0.40	0.00	0.00
1.50	0.13	0.00	0.00	4.10	0.40	0.00	0.00
1.55	0.14	0.00	0.00	4.15	0.41	0.00	0.00
1.60	0.14	0.00	0.00	4.20	0.42	0.00	0.00
1.65	0.15	0.00	0.00	4.25	0.42	0.00	0.00
1.70	0.15	0.00	0.00	4.30	0.43	0.00	0.00
1.75	0.16	0.00	0.00	4.35	0.43	0.00	0.00
1.80	0.16	0.00	0.00	4.40	0.44	0.00	0.00
1.85	0.17	0.00	0.00	4.45	0.45	0.00	0.00
1.90	0.17	0.00	0.00	4.50	0.45	0.00	0.00
1.95	0.18	0.00	0.00	4.55	0.46	0.00	0.00
2.00	0.18	0.00	0.00	4.60	0.46	0.00	0.00
2.05	0.19	0.00	0.00	4.65	0.47	0.00	0.00
2.10	0.19	0.00	0.00	4.70	0.47	0.00	0.00
2.15	0.20	0.00	0.00	4.75	0.48	0.00	0.00
2.20	0.20	0.00	0.00	4.80	0.49	0.01	0.00
2.25	0.21	0.00	0.00	4.85	0.49	0.01	0.00
2.30	0.21	0.00	0.00	4.90	0.50	0.01	0.00
2.35	0.22	0.00	0.00	4.95	0.50	0.01	0.00
2.40	0.22	0.00	0.00	5.00	0.51	0.01	0.00
2.45	0.23	0.00	0.00	5.05	0.52	0.01	0.00
2.50	0.23	0.00	0.00	5.10	0.52	0.01	0.00
2.55	0.24	0.00	0.00	5.15	0.53	0.01	0.00

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.54	0.01	0.00	7.80	0.92	0.12	0.02
5.25	0.54	0.01	0.00	7.85	0.93	0.12	0.02
5.30	0.55	0.01	0.00	7.90	0.94	0.13	0.02
5.35	0.55	0.01	0.00	7.95	0.95	0.13	0.02
5.40	0.56	0.02	0.00	8.00	0.96	0.14	0.02
5.45	0.57	0.02	0.00	8.05	0.97	0.14	0.02
5.50	0.57	0.02	0.00	8.10	0.98	0.14	0.02
5.55	0.58	0.02	0.00	8.15	0.99	0.15	0.02
5.60	0.59	0.02	0.01	8.20	1.00	0.15	0.02
5.65	0.59	0.02	0.01	8.25	1.01	0.16	0.02
5.70	0.60	0.02	0.01	8.30	1.02	0.16	0.02
5.75	0.60	0.02	0.01	8.35	1.03	0.17	0.02
5.80	0.61	0.02	0.01	8.40	1.04	0.17	0.02
5.85	0.62	0.03	0.01	8.45	1.05	0.18	0.02
5.90	0.62	0.03	0.01	8.50	1.06	0.18	0.02
5.95	0.63	0.03	0.01	8.55	1.07	0.18	0.02
6.00	0.64	0.03	0.01	8.60	1.08	0.19	0.02
6.05	0.64	0.03	0.01	8.65	1.10	0.19	0.02
6.10	0.65	0.03	0.01	8.70	1.11	0.20	0.02
6.15	0.66	0.03	0.01	8.75	1.12	0.21	0.03
6.20	0.66	0.04	0.01	8.80	1.13	0.21	0.03
6.25	0.67	0.04	0.01	8.85	1.14	0.22	0.03
6.30	0.68	0.04	0.01	8.90	1.15	0.22	0.03
6.35	0.68	0.04	0.01	8.95	1.16	0.23	0.03
6.40	0.69	0.04	0.01	9.00	1.17	0.23	0.03
6.45	0.70	0.05	0.01	9.05	1.18	0.24	0.03
6.50	0.71	0.05	0.01	9.10	1.20	0.24	0.03
6.55	0.71	0.05	0.01	9.15	1.21	0.25	0.03
6.60	0.72	0.05	0.01	9.20	1.22	0.26	0.03
6.65	0.73	0.05	0.01	9.25	1.23	0.26	0.03
6.70	0.74	0.06	0.01	9.30	1.25	0.27	0.03
6.75	0.74	0.06	0.01	9.35	1.26	0.28	0.03
6.80	0.75	0.06	0.01	9.40	1.27	0.29	0.03
6.85	0.76	0.06	0.01	9.45	1.29	0.29	0.03
6.90	0.77	0.07	0.01	9.50	1.30	0.30	0.04
6.95	0.78	0.07	0.01	9.55	1.32	0.31	0.04
7.00	0.78	0.07	0.01	9.60	1.33	0.32	0.04
7.05	0.79	0.07	0.01	9.65	1.35	0.33	0.04
7.10	0.80	0.08	0.01	9.70	1.36	0.33	0.04
7.15	0.81	0.08	0.01	9.75	1.38	0.34	0.04
7.20	0.82	0.08	0.01	9.80	1.40	0.35	0.04
7.25	0.83	0.08	0.01	9.85	1.41	0.36	0.04
7.30	0.83	0.09	0.01	9.90	1.43	0.37	0.04
7.35	0.84	0.09	0.01	9.95	1.45	0.38	0.05
7.40	0.85	0.09	0.01	10.00	1.46	0.39	0.05
7.45	0.86	0.10	0.01	10.05	1.48	0.40	0.05
7.50	0.87	0.10	0.02	10.10	1.50	0.41	0.05
7.55	0.88	0.10	0.02	10.15	1.52	0.43	0.05
7.60	0.89	0.11	0.02	10.20	1.54	0.44	0.05
7.65	0.90	0.11	0.02	10.25	1.56	0.45	0.05
7.70	0.91	0.11	0.02	10.30	1.58	0.46	0.06
7.75	0.91	0.12	0.02	10.35	1.59	0.47	0.06

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.61	0.48	0.06	13.00	6.10	4.29	0.32
10.45	1.63	0.50	0.06	13.05	6.13	4.32	0.29
10.50	1.65	0.51	0.06	13.10	6.17	4.35	0.27
10.55	1.68	0.53	0.06	13.15	6.20	4.38	0.25
10.60	1.70	0.54	0.06	13.20	6.23	4.41	0.23
10.65	1.73	0.56	0.07	13.25	6.25	4.43	0.22
10.70	1.75	0.57	0.07	13.30	6.28	4.46	0.20
10.75	1.78	0.59	0.07	13.35	6.30	4.48	0.19
10.80	1.80	0.61	0.08	13.40	6.33	4.51	0.18
10.85	1.83	0.63	0.08	13.45	6.35	4.53	0.17
10.90	1.86	0.65	0.08	13.50	6.38	4.55	0.16
10.95	1.90	0.67	0.09	13.55	6.40	4.57	0.15
11.00	1.93	0.69	0.09	13.60	6.42	4.59	0.14
11.05	1.96	0.72	0.10	13.65	6.44	4.61	0.14
11.10	2.00	0.74	0.10	13.70	6.45	4.62	0.13
11.15	2.04	0.77	0.11	13.75	6.47	4.64	0.13
11.20	2.08	0.80	0.11	13.80	6.49	4.66	0.12
11.25	2.13	0.83	0.12	13.85	6.51	4.68	0.12
11.30	2.17	0.87	0.13	13.90	6.53	4.69	0.11
11.35	2.22	0.90	0.14	13.95	6.55	4.71	0.11
11.40	2.27	0.94	0.14	14.00	6.57	4.73	0.11
11.45	2.32	0.98	0.15	14.05	6.58	4.74	0.10
11.50	2.37	1.02	0.16	14.10	6.60	4.76	0.10
11.55	2.45	1.08	0.17	14.15	6.62	4.78	0.10
11.60	2.54	1.14	0.19	14.20	6.63	4.79	0.10
11.65	2.62	1.21	0.21	14.25	6.65	4.81	0.09
11.70	2.71	1.28	0.23	14.30	6.67	4.82	0.09
11.75	2.82	1.37	0.26	14.35	6.68	4.84	0.09
11.80	2.94	1.47	0.28	14.40	6.70	4.85	0.09
11.85	3.10	1.60	0.32	14.45	6.71	4.87	0.09
11.90	3.27	1.74	0.37	14.50	6.73	4.88	0.09
11.95	3.55	1.98	0.43	14.55	6.74	4.89	0.08
12.00	3.83	2.22	0.51	14.60	6.76	4.91	0.08
12.05	4.30	2.63	0.63	14.65	6.77	4.92	0.08
12.10	4.76	3.06	0.80	14.70	6.78	4.93	0.08
12.15	4.93	3.20	1.00	14.75	6.80	4.95	0.08
12.20	5.09	3.35	**1.14**	14.80	6.81	4.96	0.08
12.25	5.21	3.46	**1.16**	14.85	6.82	4.97	0.07
12.30	5.32	3.57	1.10	14.90	6.83	4.98	0.07
12.35	5.41	3.65	1.02	14.95	6.85	4.99	0.07
12.40	5.49	3.73	0.94	15.00	6.86	5.00	0.07
12.45	5.58	3.80	0.86	15.05	6.87	5.02	0.07
12.50	5.66	3.88	0.78	15.10	6.88	5.03	0.07
12.55	5.71	3.93	0.72	15.15	6.89	5.04	0.07
12.60	5.76	3.97	0.66	15.20	6.90	5.05	0.06
12.65	5.81	4.02	0.60	15.25	6.91	5.06	0.06
12.70	5.86	4.07	0.54	15.30	6.92	5.07	0.06
12.75	5.90	4.11	0.49	15.35	6.93	5.08	0.06
12.80	5.95	4.15	0.45	15.40	6.95	5.09	0.06
12.85	5.99	4.19	0.41	15.45	6.96	5.10	0.06
12.90	6.03	4.23	0.37	15.50	6.97	5.11	0.06
12.95	6.07	4.26	0.34	15.55	6.98	5.12	0.06

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	6.99	5.13	0.06	18.20	7.42	5.54	0.04
15.65	7.00	5.14	0.06	18.25	7.43	5.55	0.03
15.70	7.01	5.15	0.06	18.30	7.43	5.55	0.03
15.75	7.02	5.16	0.06	18.35	7.44	5.56	0.03
15.80	7.03	5.17	0.06	18.40	7.44	5.56	0.03
15.85	7.04	5.18	0.05	18.45	7.45	5.57	0.03
15.90	7.05	5.19	0.05	18.50	7.46	5.58	0.03
15.95	7.06	5.20	0.05	18.55	7.46	5.58	0.03
16.00	7.07	5.20	0.05	18.60	7.47	5.59	0.03
16.05	7.08	5.21	0.05	18.65	7.48	5.59	0.03
16.10	7.09	5.22	0.05	18.70	7.48	5.60	0.03
16.15	7.10	5.23	0.05	18.75	7.49	5.61	0.03
16.20	7.11	5.24	0.05	18.80	7.49	5.61	0.03
16.25	7.12	5.25	0.05	18.85	7.50	5.62	0.03
16.30	7.12	5.26	0.05	18.90	7.51	5.62	0.03
16.35	7.13	5.27	0.05	18.95	7.51	5.63	0.03
16.40	7.14	5.28	0.05	19.00	7.52	5.63	0.03
16.45	7.15	5.28	0.05	19.05	7.53	5.64	0.03
16.50	7.16	5.29	0.05	19.10	7.53	5.65	0.03
16.55	7.17	5.30	0.05	19.15	7.54	5.65	0.03
16.60	7.18	5.31	0.05	19.20	7.54	5.66	0.03
16.65	7.19	5.32	0.05	19.25	7.55	5.66	0.03
16.70	7.20	5.33	0.05	19.30	7.56	5.67	0.03
16.75	7.20	5.33	0.05	19.35	7.56	5.67	0.03
16.80	7.21	5.34	0.05	19.40	7.57	5.68	0.03
16.85	7.22	5.35	0.05	19.45	7.57	5.69	0.03
16.90	7.23	5.36	0.05	19.50	7.58	5.69	0.03
16.95	7.24	5.37	0.05	19.55	7.58	5.70	0.03
17.00	7.25	5.37	0.05	19.60	7.59	5.70	0.03
17.05	7.25	5.38	0.04	19.65	7.60	5.71	0.03
17.10	7.26	5.39	0.04	19.70	7.60	5.71	0.03
17.15	7.27	5.40	0.04	19.75	7.61	5.72	0.03
17.20	7.28	5.41	0.04	19.80	7.61	5.73	0.03
17.25	7.29	5.41	0.04	19.85	7.62	5.73	0.03
17.30	7.29	5.42	0.04	19.90	7.63	5.74	0.03
17.35	7.30	5.43	0.04	19.95	7.63	5.74	0.03
17.40	7.31	5.43	0.04	20.00	7.64	5.75	0.03
17.45	7.32	5.44	0.04	20.05	7.64	5.75	0.03
17.50	7.32	5.45	0.04	20.10	7.65	5.76	0.03
17.55	7.33	5.46	0.04	20.15	7.65	5.76	0.03
17.60	7.34	5.46	0.04	20.20	7.66	5.77	0.03
17.65	7.35	5.47	0.04	20.25	7.67	5.77	0.03
17.70	7.35	5.48	0.04	20.30	7.67	5.78	0.03
17.75	7.36	5.48	0.04	20.35	7.68	5.78	0.03
17.80	7.37	5.49	0.04	20.40	7.68	5.79	0.03
17.85	7.37	5.50	0.04	20.45	7.69	5.80	0.03
17.90	7.38	5.50	0.04	20.50	7.69	5.80	0.03
17.95	7.39	5.51	0.04	20.55	7.70	5.81	0.03
18.00	7.39	5.51	0.04	20.60	7.70	5.81	0.03
18.05	7.40	5.52	0.04	20.65	7.71	5.82	0.03
18.10	7.41	5.53	0.04	20.70	7.71	5.82	0.03
18.15	7.41	5.53	0.04	20.75	7.72	5.83	0.03

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	7.73	5.83	0.03	23.40	7.98	6.07	0.02
20.85	7.73	5.84	0.03	23.45	7.98	6.08	0.02
20.90	7.74	5.84	0.03	23.50	7.99	6.08	0.02
20.95	7.74	5.85	0.03	23.55	7.99	6.09	0.02
21.00	7.75	5.85	0.03	23.60	7.99	6.09	0.02
21.05	7.75	5.86	0.03	23.65	8.00	6.09	0.02
21.10	7.76	5.86	0.03	23.70	8.00	6.10	0.02
21.15	7.76	5.87	0.03	23.75	8.01	6.10	0.02
21.20	7.77	5.87	0.03	23.80	8.01	6.11	0.02
21.25	7.77	5.88	0.03	23.85	8.02	6.11	0.02
21.30	7.78	5.88	0.03	23.90	8.02	6.11	0.02
21.35	7.78	5.89	0.03	23.95	8.02	6.12	0.02
21.40	7.79	5.89	0.03	24.00	**8.03**	**6.12**	0.02
21.45	7.79	5.90	0.03				
21.50	7.80	5.90	0.03				
21.55	7.80	5.91	0.03				
21.60	7.81	5.91	0.03				
21.65	7.81	5.92	0.03				
21.70	7.82	5.92	0.03				
21.75	7.82	5.93	0.03				
21.80	7.83	5.93	0.03				
21.85	7.83	5.94	0.03				
21.90	7.84	5.94	0.03				
21.95	7.84	5.95	0.03				
22.00	7.85	5.95	0.03				
22.05	7.85	5.95	0.03				
22.10	7.86	5.96	0.03				
22.15	7.86	5.96	0.03				
22.20	7.87	5.97	0.03				
22.25	7.87	5.97	0.03				
22.30	7.88	5.98	0.03				
22.35	7.88	5.98	0.03				
22.40	7.89	5.99	0.03				
22.45	7.89	5.99	0.03				
22.50	7.90	6.00	0.03				
22.55	7.90	6.00	0.03				
22.60	7.91	6.00	0.02				
22.65	7.91	6.01	0.02				
22.70	7.91	6.01	0.02				
22.75	7.92	6.02	0.02				
22.80	7.92	6.02	0.02				
22.85	7.93	6.03	0.02				
22.90	7.93	6.03	0.02				
22.95	7.94	6.04	0.02				
23.00	7.94	6.04	0.02				
23.05	7.95	6.04	0.02				
23.10	7.95	6.05	0.02				
23.15	7.96	6.05	0.02				
23.20	7.96	6.06	0.02				
23.25	7.96	6.06	0.02				
23.30	7.97	6.07	0.02				
23.35	7.97	6.07	0.02				

Summary for Subcatchment PDA1B IMP: PDA1B IMP

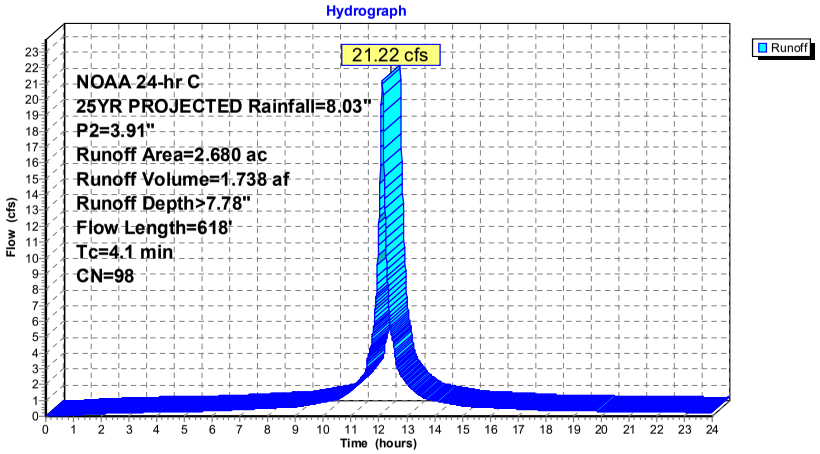
Runoff = 21.22 cfs @ 12.12 hrs, Volume= 1.738 af, Depth> 7.78"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR PROJECTED Rainfall=8.03", P2=3.91"

	Area (ac)	CN	Description
	0.100	96	Gravel surface, HSG A
	0.070	96	Gravel surface, HSG D
*	0.190	98	Impervious vehicular
	2.210	98	Roofs, HSG D
*	0.110	98	Impervious non vehicular, HSG D
	2.680	98	Weighted Average
	0.170		6.34% Pervious Area
	2.510		93.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	8	0.0100	0.70		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.1	16	0.0150	1.84		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.9	93	0.0011	1.71	3.02	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
4.1	618	Total			

Subcatchment PDA1B IMP: PDA1B IMP



Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.24	0.10	0.20
0.05	0.01	0.00	0.00	2.65	0.25	0.10	0.20
0.10	0.01	0.00	0.00	2.70	0.25	0.11	0.21
0.15	0.01	0.00	0.00	2.75	0.26	0.11	0.21
0.20	0.02	0.00	0.00	2.80	0.26	0.12	0.21
0.25	0.02	0.00	0.00	2.85	0.27	0.12	0.21
0.30	0.03	0.00	0.00	2.90	0.27	0.12	0.22
0.35	0.03	0.00	0.00	2.95	0.28	0.13	0.22
0.40	0.04	0.00	0.00	3.00	0.28	0.13	0.22
0.45	0.04	0.00	0.00	3.05	0.29	0.14	0.22
0.50	0.04	0.00	0.00	3.10	0.29	0.14	0.23
0.55	0.05	0.00	0.00	3.15	0.30	0.14	0.23
0.60	0.05	0.00	0.01	3.20	0.30	0.15	0.23
0.65	0.06	0.00	0.02	3.25	0.31	0.15	0.23
0.70	0.06	0.00	0.02	3.30	0.32	0.16	0.23
0.75	0.07	0.00	0.03	3.35	0.32	0.16	0.24
0.80	0.07	0.00	0.04	3.40	0.33	0.17	0.24
0.85	0.07	0.00	0.05	3.45	0.33	0.17	0.24
0.90	0.08	0.01	0.05	3.50	0.34	0.18	0.24
0.95	0.08	0.01	0.06	3.55	0.34	0.18	0.25
1.00	0.09	0.01	0.07	3.60	0.35	0.18	0.25
1.05	0.09	0.01	0.08	3.65	0.35	0.19	0.25
1.10	0.10	0.01	0.08	3.70	0.36	0.19	0.25
1.15	0.10	0.01	0.09	3.75	0.36	0.20	0.25
1.20	0.11	0.02	0.09	3.80	0.37	0.20	0.25
1.25	0.11	0.02	0.10	3.85	0.38	0.21	0.26
1.30	0.12	0.02	0.10	3.90	0.38	0.21	0.26
1.35	0.12	0.02	0.11	3.95	0.39	0.22	0.26
1.40	0.12	0.02	0.11	4.00	0.39	0.22	0.26
1.45	0.13	0.03	0.12	4.05	0.40	0.23	0.26
1.50	0.13	0.03	0.12	4.10	0.40	0.23	0.27
1.55	0.14	0.03	0.13	4.15	0.41	0.24	0.27
1.60	0.14	0.03	0.13	4.20	0.42	0.24	0.27
1.65	0.15	0.04	0.14	4.25	0.42	0.25	0.27
1.70	0.15	0.04	0.14	4.30	0.43	0.25	0.27
1.75	0.16	0.04	0.15	4.35	0.43	0.26	0.28
1.80	0.16	0.05	0.15	4.40	0.44	0.26	0.28
1.85	0.17	0.05	0.15	4.45	0.45	0.27	0.28
1.90	0.17	0.05	0.16	4.50	0.45	0.27	0.28
1.95	0.18	0.05	0.16	4.55	0.46	0.28	0.28
2.00	0.18	0.06	0.16	4.60	0.46	0.28	0.28
2.05	0.19	0.06	0.17	4.65	0.47	0.29	0.28
2.10	0.19	0.06	0.17	4.70	0.47	0.29	0.29
2.15	0.20	0.07	0.17	4.75	0.48	0.30	0.29
2.20	0.20	0.07	0.18	4.80	0.49	0.31	0.29
2.25	0.21	0.07	0.18	4.85	0.49	0.31	0.29
2.30	0.21	0.08	0.18	4.90	0.50	0.32	0.29
2.35	0.22	0.08	0.19	4.95	0.50	0.32	0.29
2.40	0.22	0.08	0.19	5.00	0.51	0.33	0.30
2.45	0.23	0.09	0.19	5.05	0.52	0.33	0.30
2.50	0.23	0.09	0.20	5.10	0.52	0.34	0.30
2.55	0.24	0.10	0.20	5.15	0.53	0.34	0.30

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.54	0.35	0.30	7.80	0.92	0.72	0.48
5.25	0.54	0.36	0.30	7.85	0.93	0.73	0.49
5.30	0.55	0.36	0.30	7.90	0.94	0.74	0.49
5.35	0.55	0.37	0.31	7.95	0.95	0.74	0.50
5.40	0.56	0.37	0.31	8.00	0.96	0.75	0.50
5.45	0.57	0.38	0.31	8.05	0.97	0.76	0.50
5.50	0.57	0.38	0.31	8.10	0.98	0.77	0.51
5.55	0.58	0.39	0.31	8.15	0.99	0.78	0.51
5.60	0.59	0.40	0.31	8.20	1.00	0.79	0.52
5.65	0.59	0.40	0.31	8.25	1.01	0.80	0.52
5.70	0.60	0.41	0.32	8.30	1.02	0.81	0.53
5.75	0.60	0.41	0.32	8.35	1.03	0.82	0.53
5.80	0.61	0.42	0.32	8.40	1.04	0.83	0.53
5.85	0.62	0.43	0.32	8.45	1.05	0.84	0.54
5.90	0.62	0.43	0.32	8.50	1.06	0.85	0.54
5.95	0.63	0.44	0.32	8.55	1.07	0.86	0.55
6.00	0.64	0.44	0.32	8.60	1.08	0.87	0.55
6.05	0.64	0.45	0.33	8.65	1.10	0.88	0.56
6.10	0.65	0.46	0.33	8.70	1.11	0.89	0.56
6.15	0.66	0.46	0.33	8.75	1.12	0.90	0.57
6.20	0.66	0.47	0.34	8.80	1.13	0.92	0.57
6.25	0.67	0.48	0.34	8.85	1.14	0.93	0.58
6.30	0.68	0.48	0.35	8.90	1.15	0.94	0.58
6.35	0.68	0.49	0.35	8.95	1.16	0.95	0.58
6.40	0.69	0.50	0.36	9.00	1.17	0.96	0.59
6.45	0.70	0.50	0.36	9.05	1.18	0.97	0.60
6.50	0.71	0.51	0.37	9.10	1.20	0.98	0.61
6.55	0.71	0.52	0.37	9.15	1.21	0.99	0.63
6.60	0.72	0.52	0.37	9.20	1.22	1.01	0.64
6.65	0.73	0.53	0.38	9.25	1.23	1.02	0.66
6.70	0.74	0.54	0.38	9.30	1.25	1.03	0.67
6.75	0.74	0.54	0.39	9.35	1.26	1.05	0.69
6.80	0.75	0.55	0.39	9.40	1.27	1.06	0.71
6.85	0.76	0.56	0.40	9.45	1.29	1.07	0.72
6.90	0.77	0.57	0.40	9.50	1.30	1.09	0.74
6.95	0.78	0.57	0.41	9.55	1.32	1.10	0.75
7.00	0.78	0.58	0.41	9.60	1.33	1.12	0.77
7.05	0.79	0.59	0.41	9.65	1.35	1.13	0.79
7.10	0.80	0.60	0.42	9.70	1.36	1.15	0.80
7.15	0.81	0.61	0.42	9.75	1.38	1.16	0.82
7.20	0.82	0.61	0.43	9.80	1.40	1.18	0.84
7.25	0.83	0.62	0.43	9.85	1.41	1.19	0.85
7.30	0.83	0.63	0.44	9.90	1.43	1.21	0.87
7.35	0.84	0.64	0.44	9.95	1.45	1.23	0.88
7.40	0.85	0.65	0.45	10.00	1.46	1.24	0.90
7.45	0.86	0.66	0.45	10.05	1.48	1.26	0.92
7.50	0.87	0.66	0.46	10.10	1.50	1.28	0.93
7.55	0.88	0.67	0.46	10.15	1.52	1.30	0.95
7.60	0.89	0.68	0.46	10.20	1.54	1.32	0.97
7.65	0.90	0.69	0.47	10.25	1.56	1.34	0.98
7.70	0.91	0.70	0.47	10.30	1.58	1.35	1.00
7.75	0.91	0.71	0.48	10.35	1.59	1.37	1.01

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.61	1.39	1.03	13.00	6.10	5.86	2.08
10.45	1.63	1.41	1.05	13.05	6.13	5.90	1.96
10.50	1.65	1.43	1.07	13.10	6.17	5.93	1.84
10.55	1.68	1.46	1.10	13.15	6.20	5.96	1.75
10.60	1.70	1.48	1.15	13.20	6.23	5.99	1.68
10.65	1.73	1.50	1.21	13.25	6.25	6.01	1.61
10.70	1.75	1.53	1.26	13.30	6.28	6.04	1.54
10.75	1.78	1.55	1.32	13.35	6.30	6.07	1.48
10.80	1.80	1.58	1.39	13.40	6.33	6.09	1.41
10.85	1.83	1.61	1.45	13.45	6.35	6.11	1.35
10.90	1.86	1.64	1.51	13.50	6.38	6.14	1.29
10.95	1.90	1.67	1.57	13.55	6.40	6.16	1.23
11.00	1.93	1.70	1.64	13.60	6.42	6.18	1.16
11.05	1.96	1.74	1.72	13.65	6.44	6.20	1.12
11.10	2.00	1.77	1.82	13.70	6.45	6.22	1.09
11.15	2.04	1.81	1.93	13.75	6.47	6.24	1.07
11.20	2.08	1.85	2.04	13.80	6.49	6.25	1.05
11.25	2.13	1.90	2.16	13.85	6.51	6.27	1.03
11.30	2.17	1.94	2.27	13.90	6.53	6.29	1.02
11.35	2.22	1.99	2.39	13.95	6.55	6.31	1.00
11.40	2.27	2.04	2.51	14.00	6.57	6.33	0.98
11.45	2.32	2.09	2.61	14.05	6.58	6.34	0.97
11.50	2.37	2.14	2.71	14.10	6.60	6.36	0.95
11.55	2.45	2.23	3.10	14.15	6.62	6.38	0.93
11.60	2.54	2.31	3.70	14.20	6.63	6.40	0.92
11.65	2.62	2.39	4.07	14.25	6.65	6.41	0.90
11.70	2.71	2.48	4.33	14.30	6.67	6.43	0.89
11.75	2.82	2.59	4.84	14.35	6.68	6.44	0.87
11.80	2.94	2.71	5.54	14.40	6.70	6.46	0.85
11.85	3.10	2.87	6.45	14.45	6.71	6.47	0.84
11.90	3.27	3.03	7.55	14.50	6.73	6.49	0.82
11.95	3.55	3.31	9.54	14.55	6.74	6.50	0.81
12.00	3.83	3.59	12.20	14.60	6.76	6.52	0.79
12.05	4.30	4.06	15.85	14.65	6.77	6.53	0.77
12.10	4.76	4.53	**20.36**	14.70	6.78	6.54	0.75
12.15	4.93	4.69	**19.15**	14.75	6.80	6.56	0.74
12.20	5.09	4.85	14.35	14.80	6.81	6.57	0.72
12.25	5.21	4.97	11.22	14.85	6.82	6.58	0.71
12.30	5.32	5.09	8.89	14.90	6.83	6.59	0.69
12.35	5.41	5.17	7.20	14.95	6.85	6.61	0.67
12.40	5.49	5.26	5.88	15.00	6.86	6.62	0.66
12.45	5.58	5.34	5.18	15.05	6.87	6.63	0.64
12.50	5.66	5.42	4.75	15.10	6.88	6.64	0.63
12.55	5.71	5.47	4.19	15.15	6.89	6.65	0.62
12.60	5.76	5.52	3.53	15.20	6.90	6.66	0.61
12.65	5.81	5.57	3.15	15.25	6.91	6.67	0.60
12.70	5.86	5.62	2.90	15.30	6.92	6.68	0.60
12.75	5.90	5.67	2.72	15.35	6.93	6.70	0.59
12.80	5.95	5.71	2.56	15.40	6.95	6.71	0.59
12.85	5.99	5.75	2.44	15.45	6.96	6.72	0.58
12.90	6.03	5.79	2.31	15.50	6.97	6.73	0.58
12.95	6.07	5.83	2.20	15.55	6.98	6.74	0.57

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	6.99	6.75	0.57	18.20	7.42	7.18	0.35
15.65	7.00	6.76	0.57	18.25	7.43	7.19	0.35
15.70	7.01	6.77	0.56	18.30	7.43	7.19	0.35
15.75	7.02	6.78	0.56	18.35	7.44	7.20	0.34
15.80	7.03	6.79	0.55	18.40	7.44	7.21	0.34
15.85	7.04	6.80	0.55	18.45	7.45	7.21	0.34
15.90	7.05	6.81	0.54	18.50	7.46	7.22	0.34
15.95	7.06	6.82	0.54	18.55	7.46	7.22	0.34
16.00	7.07	6.83	0.53	18.60	7.47	7.23	0.34
16.05	7.08	6.84	0.53	18.65	7.48	7.24	0.34
16.10	7.09	6.85	0.53	18.70	7.48	7.24	0.34
16.15	7.10	6.86	0.52	18.75	7.49	7.25	0.34
16.20	7.11	6.87	0.52	18.80	7.49	7.26	0.34
16.25	7.12	6.88	0.51	18.85	7.50	7.26	0.33
16.30	7.12	6.89	0.51	18.90	7.51	7.27	0.33
16.35	7.13	6.89	0.50	18.95	7.51	7.27	0.33
16.40	7.14	6.90	0.50	19.00	7.52	7.28	0.33
16.45	7.15	6.91	0.50	19.05	7.53	7.29	0.33
16.50	7.16	6.92	0.49	19.10	7.53	7.29	0.33
16.55	7.17	6.93	0.49	19.15	7.54	7.30	0.33
16.60	7.18	6.94	0.48	19.20	7.54	7.30	0.33
16.65	7.19	6.95	0.48	19.25	7.55	7.31	0.33
16.70	7.20	6.96	0.48	19.30	7.56	7.32	0.32
16.75	7.20	6.97	0.47	19.35	7.56	7.32	0.32
16.80	7.21	6.97	0.47	19.40	7.57	7.33	0.32
16.85	7.22	6.98	0.46	19.45	7.57	7.33	0.32
16.90	7.23	6.99	0.46	19.50	7.58	7.34	0.32
16.95	7.24	7.00	0.45	19.55	7.58	7.35	0.32
17.00	7.25	7.01	0.45	19.60	7.59	7.35	0.32
17.05	7.25	7.02	0.44	19.65	7.60	7.36	0.32
17.10	7.26	7.02	0.44	19.70	7.60	7.36	0.32
17.15	7.27	7.03	0.44	19.75	7.61	7.37	0.32
17.20	7.28	7.04	0.43	19.80	7.61	7.37	0.31
17.25	7.29	7.05	0.43	19.85	7.62	7.38	0.31
17.30	7.29	7.05	0.42	19.90	7.63	7.39	0.31
17.35	7.30	7.06	0.42	19.95	7.63	7.39	0.31
17.40	7.31	7.07	0.41	20.00	7.64	7.40	0.31
17.45	7.32	7.08	0.41	20.05	7.64	7.40	0.31
17.50	7.32	7.08	0.41	20.10	7.65	7.41	0.31
17.55	7.33	7.09	0.40	20.15	7.65	7.41	0.31
17.60	7.34	7.10	0.40	20.20	7.66	7.42	0.30
17.65	7.35	7.11	0.39	20.25	7.67	7.43	0.30
17.70	7.35	7.11	0.39	20.30	7.67	7.43	0.30
17.75	7.36	7.12	0.38	20.35	7.68	7.44	0.30
17.80	7.37	7.13	0.38	20.40	7.68	7.44	0.30
17.85	7.37	7.13	0.38	20.45	7.69	7.45	0.30
17.90	7.38	7.14	0.37	20.50	7.69	7.45	0.30
17.95	7.39	7.15	0.37	20.55	7.70	7.46	0.30
18.00	7.39	7.15	0.36	20.60	7.70	7.46	0.30
18.05	7.40	7.16	0.36	20.65	7.71	7.47	0.30
18.10	7.41	7.17	0.35	20.70	7.71	7.48	0.29
18.15	7.41	7.17	0.35	20.75	7.72	7.48	0.29

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	7.73	7.49	0.29	23.40	7.98	7.74	0.24
20.85	7.73	7.49	0.29	23.45	7.98	7.74	0.24
20.90	7.74	7.50	0.29	23.50	7.99	7.75	0.23
20.95	7.74	7.50	0.29	23.55	7.99	7.75	0.23
21.00	7.75	7.51	0.29	23.60	7.99	7.75	0.23
21.05	7.75	7.51	0.29	23.65	8.00	7.76	0.23
21.10	7.76	7.52	0.29	23.70	8.00	7.76	0.23
21.15	7.76	7.52	0.28	23.75	8.01	7.77	0.23
21.20	7.77	7.53	0.28	23.80	8.01	7.77	0.23
21.25	7.77	7.53	0.28	23.85	8.02	7.78	0.23
21.30	7.78	7.54	0.28	23.90	8.02	7.78	0.22
21.35	7.78	7.54	0.28	23.95	8.02	7.79	0.24
21.40	7.79	7.55	0.28	24.00	**8.03**	**7.79**	0.26
21.45	7.79	7.55	0.28				
21.50	7.80	7.56	0.28				
21.55	7.80	7.56	0.28				
21.60	7.81	7.57	0.27				
21.65	7.81	7.57	0.27				
21.70	7.82	7.58	0.27				
21.75	7.82	7.58	0.27				
21.80	7.83	7.59	0.27				
21.85	7.83	7.59	0.27				
21.90	7.84	7.60	0.27				
21.95	7.84	7.60	0.27				
22.00	7.85	7.61	0.27				
22.05	7.85	7.61	0.26				
22.10	7.86	7.62	0.26				
22.15	7.86	7.62	0.26				
22.20	7.87	7.63	0.26				
22.25	7.87	7.63	0.26				
22.30	7.88	7.64	0.26				
22.35	7.88	7.64	0.26				
22.40	7.89	7.65	0.26				
22.45	7.89	7.65	0.26				
22.50	7.90	7.66	0.25				
22.55	7.90	7.66	0.25				
22.60	7.91	7.67	0.25				
22.65	7.91	7.67	0.25				
22.70	7.91	7.68	0.25				
22.75	7.92	7.68	0.25				
22.80	7.92	7.68	0.25				
22.85	7.93	7.69	0.25				
22.90	7.93	7.69	0.25				
22.95	7.94	7.70	0.25				
23.00	7.94	7.70	0.25				
23.05	7.95	7.71	0.24				
23.10	7.95	7.71	0.24				
23.15	7.96	7.72	0.24				
23.20	7.96	7.72	0.24				
23.25	7.96	7.72	0.24				
23.30	7.97	7.73	0.24				
23.35	7.97	7.73	0.24				

Summary for Subcatchment PDA1B PERV: PDA-1B PERV

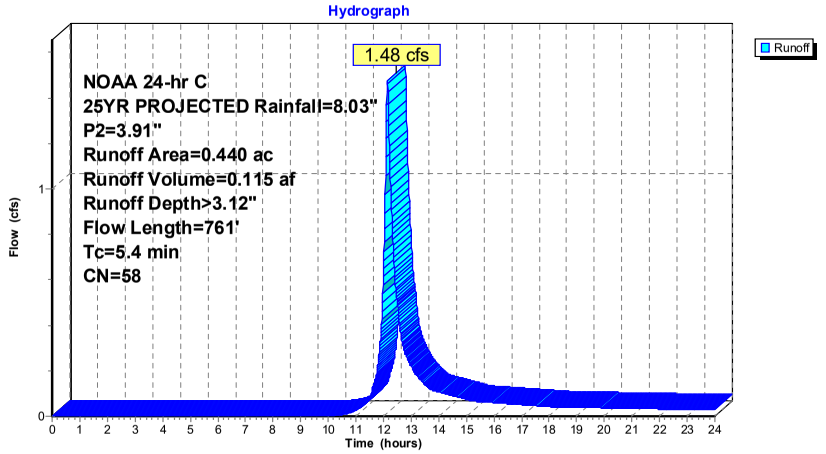
Runoff = 1.48 cfs @ 12.14 hrs, Volume= 0.115 af, Depth> 3.12"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR PROJECTED Rainfall=8.03", P2=3.91"

	Area (ac)	CN	Description
	0.250	39	>75% Grass cover, Good, HSG A
*	0.190	84	>75% Grass cover, Good, HSG D
	0.440	58	Weighted Average
	0.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	93	0.0100	1.14		**Sheet Flow, Grass** Smooth surfaces n= 0.011 P2= 3.91"
0.8	74	0.0100	1.50		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.3	93	0.0110	5.40	9.55	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
5.4	761	Total			

Subcatchment PDA1B PERV: PDA-1B PERV



Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.24	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.25	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.25	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.26	0.00	0.00
0.20	0.02	0.00	0.00	2.80	0.26	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.27	0.00	0.00
0.30	0.03	0.00	0.00	2.90	0.27	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.28	0.00	0.00
0.40	0.04	0.00	0.00	3.00	0.28	0.00	0.00
0.45	0.04	0.00	0.00	3.05	0.29	0.00	0.00
0.50	0.04	0.00	0.00	3.10	0.29	0.00	0.00
0.55	0.05	0.00	0.00	3.15	0.30	0.00	0.00
0.60	0.05	0.00	0.00	3.20	0.30	0.00	0.00
0.65	0.06	0.00	0.00	3.25	0.31	0.00	0.00
0.70	0.06	0.00	0.00	3.30	0.32	0.00	0.00
0.75	0.07	0.00	0.00	3.35	0.32	0.00	0.00
0.80	0.07	0.00	0.00	3.40	0.33	0.00	0.00
0.85	0.07	0.00	0.00	3.45	0.33	0.00	0.00
0.90	0.08	0.00	0.00	3.50	0.34	0.00	0.00
0.95	0.08	0.00	0.00	3.55	0.34	0.00	0.00
1.00	0.09	0.00	0.00	3.60	0.35	0.00	0.00
1.05	0.09	0.00	0.00	3.65	0.35	0.00	0.00
1.10	0.10	0.00	0.00	3.70	0.36	0.00	0.00
1.15	0.10	0.00	0.00	3.75	0.36	0.00	0.00
1.20	0.11	0.00	0.00	3.80	0.37	0.00	0.00
1.25	0.11	0.00	0.00	3.85	0.38	0.00	0.00
1.30	0.12	0.00	0.00	3.90	0.38	0.00	0.00
1.35	0.12	0.00	0.00	3.95	0.39	0.00	0.00
1.40	0.12	0.00	0.00	4.00	0.39	0.00	0.00
1.45	0.13	0.00	0.00	4.05	0.40	0.00	0.00
1.50	0.13	0.00	0.00	4.10	0.40	0.00	0.00
1.55	0.14	0.00	0.00	4.15	0.41	0.00	0.00
1.60	0.14	0.00	0.00	4.20	0.42	0.00	0.00
1.65	0.15	0.00	0.00	4.25	0.42	0.00	0.00
1.70	0.15	0.00	0.00	4.30	0.43	0.00	0.00
1.75	0.16	0.00	0.00	4.35	0.43	0.00	0.00
1.80	0.16	0.00	0.00	4.40	0.44	0.00	0.00
1.85	0.17	0.00	0.00	4.45	0.45	0.00	0.00
1.90	0.17	0.00	0.00	4.50	0.45	0.00	0.00
1.95	0.18	0.00	0.00	4.55	0.46	0.00	0.00
2.00	0.18	0.00	0.00	4.60	0.46	0.00	0.00
2.05	0.19	0.00	0.00	4.65	0.47	0.00	0.00
2.10	0.19	0.00	0.00	4.70	0.47	0.00	0.00
2.15	0.20	0.00	0.00	4.75	0.48	0.00	0.00
2.20	0.20	0.00	0.00	4.80	0.49	0.00	0.00
2.25	0.21	0.00	0.00	4.85	0.49	0.00	0.00
2.30	0.21	0.00	0.00	4.90	0.50	0.00	0.00
2.35	0.22	0.00	0.00	4.95	0.50	0.00	0.00
2.40	0.22	0.00	0.00	5.00	0.51	0.00	0.00
2.45	0.23	0.00	0.00	5.05	0.52	0.00	0.00
2.50	0.23	0.00	0.00	5.10	0.52	0.00	0.00
2.55	0.24	0.00	0.00	5.15	0.53	0.00	0.00

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.54	0.00	0.00	7.80	0.92	0.00	0.00
5.25	0.54	0.00	0.00	7.85	0.93	0.00	0.00
5.30	0.55	0.00	0.00	7.90	0.94	0.00	0.00
5.35	0.55	0.00	0.00	7.95	0.95	0.00	0.00
5.40	0.56	0.00	0.00	8.00	0.96	0.00	0.00
5.45	0.57	0.00	0.00	8.05	0.97	0.00	0.00
5.50	0.57	0.00	0.00	8.10	0.98	0.00	0.00
5.55	0.58	0.00	0.00	8.15	0.99	0.00	0.00
5.60	0.59	0.00	0.00	8.20	1.00	0.00	0.00
5.65	0.59	0.00	0.00	8.25	1.01	0.00	0.00
5.70	0.60	0.00	0.00	8.30	1.02	0.00	0.00
5.75	0.60	0.00	0.00	8.35	1.03	0.00	0.00
5.80	0.61	0.00	0.00	8.40	1.04	0.00	0.00
5.85	0.62	0.00	0.00	8.45	1.05	0.00	0.00
5.90	0.62	0.00	0.00	8.50	1.06	0.00	0.00
5.95	0.63	0.00	0.00	8.55	1.07	0.00	0.00
6.00	0.64	0.00	0.00	8.60	1.08	0.00	0.00
6.05	0.64	0.00	0.00	8.65	1.10	0.00	0.00
6.10	0.65	0.00	0.00	8.70	1.11	0.00	0.00
6.15	0.66	0.00	0.00	8.75	1.12	0.00	0.00
6.20	0.66	0.00	0.00	8.80	1.13	0.00	0.00
6.25	0.67	0.00	0.00	8.85	1.14	0.00	0.00
6.30	0.68	0.00	0.00	8.90	1.15	0.00	0.00
6.35	0.68	0.00	0.00	8.95	1.16	0.00	0.00
6.40	0.69	0.00	0.00	9.00	1.17	0.00	0.00
6.45	0.70	0.00	0.00	9.05	1.18	0.00	0.00
6.50	0.71	0.00	0.00	9.10	1.20	0.00	0.00
6.55	0.71	0.00	0.00	9.15	1.21	0.00	0.00
6.60	0.72	0.00	0.00	9.20	1.22	0.00	0.00
6.65	0.73	0.00	0.00	9.25	1.23	0.00	0.00
6.70	0.74	0.00	0.00	9.30	1.25	0.00	0.00
6.75	0.74	0.00	0.00	9.35	1.26	0.00	0.00
6.80	0.75	0.00	0.00	9.40	1.27	0.00	0.00
6.85	0.76	0.00	0.00	9.45	1.29	0.00	0.00
6.90	0.77	0.00	0.00	9.50	1.30	0.00	0.00
6.95	0.78	0.00	0.00	9.55	1.32	0.00	0.00
7.00	0.78	0.00	0.00	9.60	1.33	0.00	0.00
7.05	0.79	0.00	0.00	9.65	1.35	0.00	0.00
7.10	0.80	0.00	0.00	9.70	1.36	0.00	0.00
7.15	0.81	0.00	0.00	9.75	1.38	0.00	0.00
7.20	0.82	0.00	0.00	9.80	1.40	0.00	0.00
7.25	0.83	0.00	0.00	9.85	1.41	0.00	0.00
7.30	0.83	0.00	0.00	9.90	1.43	0.00	0.00
7.35	0.84	0.00	0.00	9.95	1.45	0.00	0.00
7.40	0.85	0.00	0.00	10.00	1.46	0.00	0.00
7.45	0.86	0.00	0.00	10.05	1.48	0.00	0.00
7.50	0.87	0.00	0.00	10.10	1.50	0.00	0.00
7.55	0.88	0.00	0.00	10.15	1.52	0.00	0.00
7.60	0.89	0.00	0.00	10.20	1.54	0.00	0.00
7.65	0.90	0.00	0.00	10.25	1.56	0.00	0.00
7.70	0.91	0.00	0.00	10.30	1.58	0.00	0.00
7.75	0.91	0.00	0.00	10.35	1.59	0.00	0.00

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.61	0.00	0.01	13.00	6.10	1.82	0.22
10.45	1.63	0.00	0.01	13.05	6.13	1.84	0.21
10.50	1.65	0.01	0.01	13.10	6.17	1.86	0.20
10.55	1.68	0.01	0.01	13.15	6.20	1.88	0.19
10.60	1.70	0.01	0.01	13.20	6.23	1.90	0.18
10.65	1.73	0.01	0.01	13.25	6.25	1.92	0.17
10.70	1.75	0.01	0.01	13.30	6.28	1.93	0.17
10.75	1.78	0.01	0.01	13.35	6.30	1.95	0.16
10.80	1.80	0.02	0.02	13.40	6.33	1.97	0.15
10.85	1.83	0.02	0.02	13.45	6.35	1.98	0.15
10.90	1.86	0.02	0.02	13.50	6.38	1.99	0.14
10.95	1.90	0.03	0.02	13.55	6.40	2.01	0.13
11.00	1.93	0.03	0.03	13.60	6.42	2.02	0.13
11.05	1.96	0.03	0.03	13.65	6.44	2.03	0.12
11.10	2.00	0.04	0.03	13.70	6.45	2.05	0.12
11.15	2.04	0.04	0.04	13.75	6.47	2.06	0.12
11.20	2.08	0.05	0.04	13.80	6.49	2.07	0.11
11.25	2.13	0.06	0.05	13.85	6.51	2.08	0.11
11.30	2.17	0.07	0.05	13.90	6.53	2.10	0.11
11.35	2.22	0.07	0.06	13.95	6.55	2.11	0.11
11.40	2.27	0.08	0.07	14.00	6.57	2.12	0.11
11.45	2.32	0.09	0.07	14.05	6.58	2.13	0.11
11.50	2.37	0.10	0.08	14.10	6.60	2.14	0.10
11.55	2.45	0.12	0.09	14.15	6.62	2.15	0.10
11.60	2.54	0.14	0.12	14.20	6.63	2.16	0.10
11.65	2.62	0.16	0.14	14.25	6.65	2.17	0.10
11.70	2.71	0.19	0.16	14.30	6.67	2.19	0.10
11.75	2.82	0.22	0.19	14.35	6.68	2.20	0.10
11.80	2.94	0.25	0.23	14.40	6.70	2.21	0.09
11.85	3.10	0.31	0.28	14.45	6.71	2.22	0.09
11.90	3.27	0.36	0.36	14.50	6.73	2.23	0.09
11.95	3.55	0.47	0.46	14.55	6.74	2.23	0.09
12.00	3.83	0.59	0.65	14.60	6.76	2.24	0.09
12.05	4.30	0.80	0.90	14.65	6.77	2.25	0.09
12.10	4.76	1.04	**1.30**	14.70	6.78	2.26	0.08
12.15	4.93	1.13	**1.46**	14.75	6.80	2.27	0.08
12.20	5.09	1.22	1.23	14.80	6.81	2.28	0.08
12.25	5.21	1.28	1.05	14.85	6.82	2.29	0.08
12.30	5.32	1.35	0.88	14.90	6.83	2.30	0.08
12.35	5.41	1.40	0.75	14.95	6.85	2.30	0.08
12.40	5.49	1.45	0.63	15.00	6.86	2.31	0.07
12.45	5.58	1.50	0.55	15.05	6.87	2.32	0.07
12.50	5.66	1.55	0.50	15.10	6.88	2.33	0.07
12.55	5.71	1.58	0.45	15.15	6.89	2.34	0.07
12.60	5.76	1.61	0.39	15.20	6.90	2.34	0.07
12.65	5.81	1.64	0.34	15.25	6.91	2.35	0.07
12.70	5.86	1.67	0.31	15.30	6.92	2.36	0.07
12.75	5.90	1.70	0.29	15.35	6.93	2.36	0.07
12.80	5.95	1.73	0.27	15.40	6.95	2.37	0.07
12.85	5.99	1.75	0.26	15.45	6.96	2.38	0.07
12.90	6.03	1.78	0.24	15.50	6.97	2.39	0.06
12.95	6.07	1.80	0.23	15.55	6.98	2.39	0.06

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	6.99	2.40	0.06	18.20	7.42	2.70	0.04
15.65	7.00	2.41	0.06	18.25	7.43	2.70	0.04
15.70	7.01	2.41	0.06	18.30	7.43	2.71	0.04
15.75	7.02	2.42	0.06	18.35	7.44	2.71	0.04
15.80	7.03	2.43	0.06	18.40	7.44	2.72	0.04
15.85	7.04	2.44	0.06	18.45	7.45	2.72	0.04
15.90	7.05	2.44	0.06	18.50	7.46	2.73	0.04
15.95	7.06	2.45	0.06	18.55	7.46	2.73	0.04
16.00	7.07	2.46	0.06	18.60	7.47	2.73	0.04
16.05	7.08	2.46	0.06	18.65	7.48	2.74	0.04
16.10	7.09	2.47	0.06	18.70	7.48	2.74	0.04
16.15	7.10	2.48	0.06	18.75	7.49	2.75	0.04
16.20	7.11	2.48	0.06	18.80	7.49	2.75	0.04
16.25	7.12	2.49	0.06	18.85	7.50	2.76	0.04
16.30	7.12	2.49	0.06	18.90	7.51	2.76	0.04
16.35	7.13	2.50	0.06	18.95	7.51	2.76	0.04
16.40	7.14	2.51	0.06	19.00	7.52	2.77	0.04
16.45	7.15	2.51	0.06	19.05	7.53	2.77	0.04
16.50	7.16	2.52	0.06	19.10	7.53	2.78	0.04
16.55	7.17	2.53	0.06	19.15	7.54	2.78	0.04
16.60	7.18	2.53	0.05	19.20	7.54	2.79	0.04
16.65	7.19	2.54	0.05	19.25	7.55	2.79	0.04
16.70	7.20	2.54	0.05	19.30	7.56	2.79	0.04
16.75	7.20	2.55	0.05	19.35	7.56	2.80	0.04
16.80	7.21	2.56	0.05	19.40	7.57	2.80	0.04
16.85	7.22	2.56	0.05	19.45	7.57	2.81	0.04
16.90	7.23	2.57	0.05	19.50	7.58	2.81	0.04
16.95	7.24	2.57	0.05	19.55	7.58	2.81	0.04
17.00	7.25	2.58	0.05	19.60	7.59	2.82	0.04
17.05	7.25	2.58	0.05	19.65	7.60	2.82	0.04
17.10	7.26	2.59	0.05	19.70	7.60	2.83	0.04
17.15	7.27	2.60	0.05	19.75	7.61	2.83	0.04
17.20	7.28	2.60	0.05	19.80	7.61	2.84	0.04
17.25	7.29	2.61	0.05	19.85	7.62	2.84	0.04
17.30	7.29	2.61	0.05	19.90	7.63	2.84	0.04
17.35	7.30	2.62	0.05	19.95	7.63	2.85	0.04
17.40	7.31	2.62	0.05	20.00	7.64	2.85	0.04
17.45	7.32	2.63	0.05	20.05	7.64	2.86	0.04
17.50	7.32	2.63	0.05	20.10	7.65	2.86	0.04
17.55	7.33	2.64	0.05	20.15	7.65	2.86	0.04
17.60	7.34	2.64	0.05	20.20	7.66	2.87	0.04
17.65	7.35	2.65	0.05	20.25	7.67	2.87	0.04
17.70	7.35	2.65	0.04	20.30	7.67	2.88	0.04
17.75	7.36	2.66	0.04	20.35	7.68	2.88	0.04
17.80	7.37	2.66	0.04	20.40	7.68	2.88	0.04
17.85	7.37	2.67	0.04	20.45	7.69	2.89	0.04
17.90	7.38	2.67	0.04	20.50	7.69	2.89	0.03
17.95	7.39	2.68	0.04	20.55	7.70	2.90	0.03
18.00	7.39	2.68	0.04	20.60	7.70	2.90	0.03
18.05	7.40	2.69	0.04	20.65	7.71	2.90	0.03
18.10	7.41	2.69	0.04	20.70	7.71	2.91	0.03
18.15	7.41	2.69	0.04	20.75	7.72	2.91	0.03

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	7.73	2.91	0.03	23.40	7.98	3.10	0.03
20.85	7.73	2.92	0.03	23.45	7.98	3.10	0.03
20.90	7.74	2.92	0.03	23.50	7.99	3.10	0.03
20.95	7.74	2.93	0.03	23.55	7.99	3.11	0.03
21.00	7.75	2.93	0.03	23.60	7.99	3.11	0.03
21.05	7.75	2.93	0.03	23.65	8.00	3.11	0.03
21.10	7.76	2.94	0.03	23.70	8.00	3.11	0.03
21.15	7.76	2.94	0.03	23.75	8.01	3.12	0.03
21.20	7.77	2.94	0.03	23.80	8.01	3.12	0.03
21.25	7.77	2.95	0.03	23.85	8.02	3.12	0.03
21.30	7.78	2.95	0.03	23.90	8.02	3.13	0.03
21.35	7.78	2.96	0.03	23.95	8.02	3.13	0.03
21.40	7.79	2.96	0.03	24.00	**8.03**	**3.13**	0.03
21.45	7.79	2.96	0.03				
21.50	7.80	2.97	0.03				
21.55	7.80	2.97	0.03				
21.60	7.81	2.97	0.03				
21.65	7.81	2.98	0.03				
21.70	7.82	2.98	0.03				
21.75	7.82	2.99	0.03				
21.80	7.83	2.99	0.03				
21.85	7.83	2.99	0.03				
21.90	7.84	3.00	0.03				
21.95	7.84	3.00	0.03				
22.00	7.85	3.00	0.03				
22.05	7.85	3.01	0.03				
22.10	7.86	3.01	0.03				
22.15	7.86	3.01	0.03				
22.20	7.87	3.02	0.03				
22.25	7.87	3.02	0.03				
22.30	7.88	3.02	0.03				
22.35	7.88	3.03	0.03				
22.40	7.89	3.03	0.03				
22.45	7.89	3.03	0.03				
22.50	7.90	3.04	0.03				
22.55	7.90	3.04	0.03				
22.60	7.91	3.04	0.03				
22.65	7.91	3.05	0.03				
22.70	7.91	3.05	0.03				
22.75	7.92	3.05	0.03				
22.80	7.92	3.06	0.03				
22.85	7.93	3.06	0.03				
22.90	7.93	3.06	0.03				
22.95	7.94	3.07	0.03				
23.00	7.94	3.07	0.03				
23.05	7.95	3.07	0.03				
23.10	7.95	3.08	0.03				
23.15	7.96	3.08	0.03				
23.20	7.96	3.08	0.03				
23.25	7.96	3.09	0.03				
23.30	7.97	3.09	0.03				
23.35	7.97	3.09	0.03				

Summary for Subcatchment PDA2 IMP: PDA2 IMP

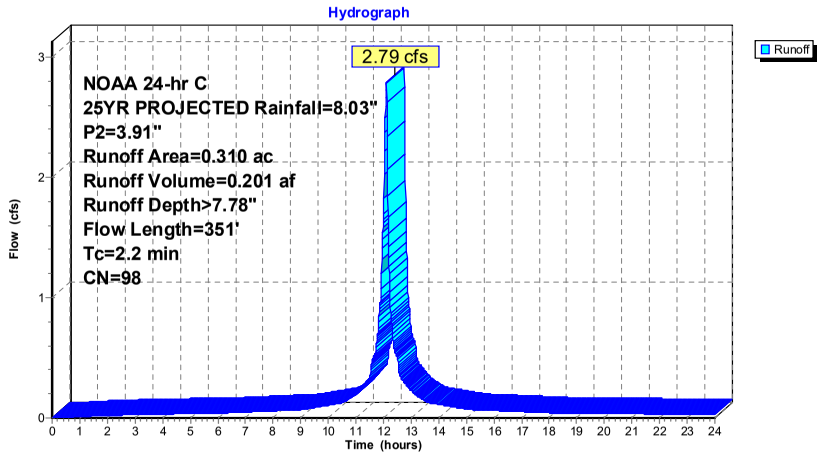
Runoff = 2.79 cfs @ 12.11 hrs, Volume= 0.201 af, Depth> 7.78"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR PROJECTED Rainfall=8.03", P2=3.91"

	Area (ac)	CN	Description
*	0.310	98	Impervious vehicular
	0.310		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	100	0.0180	1.46		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
1.1	251	0.0360	3.85		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
2.2	351	Total			

Subcatchment PDA2 IMP: PDA2 IMP



Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.24	0.10	0.02
0.05	0.01	0.00	0.00	2.65	0.25	0.10	0.02
0.10	0.01	0.00	0.00	2.70	0.25	0.11	0.02
0.15	0.01	0.00	0.00	2.75	0.26	0.11	0.02
0.20	0.02	0.00	0.00	2.80	0.26	0.12	0.02
0.25	0.02	0.00	0.00	2.85	0.27	0.12	0.03
0.30	0.03	0.00	0.00	2.90	0.27	0.12	0.03
0.35	0.03	0.00	0.00	2.95	0.28	0.13	0.03
0.40	0.04	0.00	0.00	3.00	0.28	0.13	0.03
0.45	0.04	0.00	0.00	3.05	0.29	0.14	0.03
0.50	0.04	0.00	0.00	3.10	0.29	0.14	0.03
0.55	0.05	0.00	0.00	3.15	0.30	0.14	0.03
0.60	0.05	0.00	0.00	3.20	0.30	0.15	0.03
0.65	0.06	0.00	0.00	3.25	0.31	0.15	0.03
0.70	0.06	0.00	0.00	3.30	0.32	0.16	0.03
0.75	0.07	0.00	0.00	3.35	0.32	0.16	0.03
0.80	0.07	0.00	0.01	3.40	0.33	0.17	0.03
0.85	0.07	0.00	0.01	3.45	0.33	0.17	0.03
0.90	0.08	0.01	0.01	3.50	0.34	0.18	0.03
0.95	0.08	0.01	0.01	3.55	0.34	0.18	0.03
1.00	0.09	0.01	0.01	3.60	0.35	0.18	0.03
1.05	0.09	0.01	0.01	3.65	0.35	0.19	0.03
1.10	0.10	0.01	0.01	3.70	0.36	0.19	0.03
1.15	0.10	0.01	0.01	3.75	0.36	0.20	0.03
1.20	0.11	0.02	0.01	3.80	0.37	0.20	0.03
1.25	0.11	0.02	0.01	3.85	0.38	0.21	0.03
1.30	0.12	0.02	0.01	3.90	0.38	0.21	0.03
1.35	0.12	0.02	0.01	3.95	0.39	0.22	0.03
1.40	0.12	0.02	0.01	4.00	0.39	0.22	0.03
1.45	0.13	0.03	0.01	4.05	0.40	0.23	0.03
1.50	0.13	0.03	0.01	4.10	0.40	0.23	0.03
1.55	0.14	0.03	0.02	4.15	0.41	0.24	0.03
1.60	0.14	0.03	0.02	4.20	0.42	0.24	0.03
1.65	0.15	0.04	0.02	4.25	0.42	0.25	0.03
1.70	0.15	0.04	0.02	4.30	0.43	0.25	0.03
1.75	0.16	0.04	0.02	4.35	0.43	0.26	0.03
1.80	0.16	0.05	0.02	4.40	0.44	0.26	0.03
1.85	0.17	0.05	0.02	4.45	0.45	0.27	0.03
1.90	0.17	0.05	0.02	4.50	0.45	0.27	0.03
1.95	0.18	0.05	0.02	4.55	0.46	0.28	0.03
2.00	0.18	0.06	0.02	4.60	0.46	0.28	0.03
2.05	0.19	0.06	0.02	4.65	0.47	0.29	0.03
2.10	0.19	0.06	0.02	4.70	0.47	0.29	0.03
2.15	0.20	0.07	0.02	4.75	0.48	0.30	0.03
2.20	0.20	0.07	0.02	4.80	0.49	0.31	0.03
2.25	0.21	0.07	0.02	4.85	0.49	0.31	0.03
2.30	0.21	0.08	0.02	4.90	0.50	0.32	0.03
2.35	0.22	0.08	0.02	4.95	0.50	0.32	0.03
2.40	0.22	0.08	0.02	5.00	0.51	0.33	0.03
2.45	0.23	0.09	0.02	5.05	0.52	0.33	0.03
2.50	0.23	0.09	0.02	5.10	0.52	0.34	0.03
2.55	0.24	0.10	0.02	5.15	0.53	0.34	0.03

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.54	0.35	0.04	7.80	0.92	0.72	0.06
5.25	0.54	0.36	0.04	7.85	0.93	0.73	0.06
5.30	0.55	0.36	0.04	7.90	0.94	0.74	0.06
5.35	0.55	0.37	0.04	7.95	0.95	0.74	0.06
5.40	0.56	0.37	0.04	8.00	0.96	0.75	0.06
5.45	0.57	0.38	0.04	8.05	0.97	0.76	0.06
5.50	0.57	0.38	0.04	8.10	0.98	0.77	0.06
5.55	0.58	0.39	0.04	8.15	0.99	0.78	0.06
5.60	0.59	0.40	0.04	8.20	1.00	0.79	0.06
5.65	0.59	0.40	0.04	8.25	1.01	0.80	0.06
5.70	0.60	0.41	0.04	8.30	1.02	0.81	0.06
5.75	0.60	0.41	0.04	8.35	1.03	0.82	0.06
5.80	0.61	0.42	0.04	8.40	1.04	0.83	0.06
5.85	0.62	0.43	0.04	8.45	1.05	0.84	0.06
5.90	0.62	0.43	0.04	8.50	1.06	0.85	0.06
5.95	0.63	0.44	0.04	8.55	1.07	0.86	0.06
6.00	0.64	0.44	0.04	8.60	1.08	0.87	0.06
6.05	0.64	0.45	0.04	8.65	1.10	0.88	0.07
6.10	0.65	0.46	0.04	8.70	1.11	0.89	0.07
6.15	0.66	0.46	0.04	8.75	1.12	0.90	0.07
6.20	0.66	0.47	0.04	8.80	1.13	0.92	0.07
6.25	0.67	0.48	0.04	8.85	1.14	0.93	0.07
6.30	0.68	0.48	0.04	8.90	1.15	0.94	0.07
6.35	0.68	0.49	0.04	8.95	1.16	0.95	0.07
6.40	0.69	0.50	0.04	9.00	1.17	0.96	0.07
6.45	0.70	0.50	0.04	9.05	1.18	0.97	0.07
6.50	0.71	0.51	0.04	9.10	1.20	0.98	0.07
6.55	0.71	0.52	0.04	9.15	1.21	0.99	0.07
6.60	0.72	0.52	0.04	9.20	1.22	1.01	0.08
6.65	0.73	0.53	0.04	9.25	1.23	1.02	0.08
6.70	0.74	0.54	0.04	9.30	1.25	1.03	0.08
6.75	0.74	0.54	0.05	9.35	1.26	1.05	0.08
6.80	0.75	0.55	0.05	9.40	1.27	1.06	0.08
6.85	0.76	0.56	0.05	9.45	1.29	1.07	0.09
6.90	0.77	0.57	0.05	9.50	1.30	1.09	0.09
6.95	0.78	0.57	0.05	9.55	1.32	1.10	0.09
7.00	0.78	0.58	0.05	9.60	1.33	1.12	0.09
7.05	0.79	0.59	0.05	9.65	1.35	1.13	0.09
7.10	0.80	0.60	0.05	9.70	1.36	1.15	0.09
7.15	0.81	0.61	0.05	9.75	1.38	1.16	0.10
7.20	0.82	0.61	0.05	9.80	1.40	1.18	0.10
7.25	0.83	0.62	0.05	9.85	1.41	1.19	0.10
7.30	0.83	0.63	0.05	9.90	1.43	1.21	0.10
7.35	0.84	0.64	0.05	9.95	1.45	1.23	0.10
7.40	0.85	0.65	0.05	10.00	1.46	1.24	0.11
7.45	0.86	0.66	0.05	10.05	1.48	1.26	0.11
7.50	0.87	0.66	0.05	10.10	1.50	1.28	0.11
7.55	0.88	0.67	0.05	10.15	1.52	1.30	0.11
7.60	0.89	0.68	0.05	10.20	1.54	1.32	0.11
7.65	0.90	0.69	0.05	10.25	1.56	1.34	0.12
7.70	0.91	0.70	0.06	10.30	1.58	1.35	0.12
7.75	0.91	0.71	0.06	10.35	1.59	1.37	0.12

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.61	1.39	0.12	13.00	6.10	5.86	0.23
10.45	1.63	1.41	0.12	13.05	6.13	5.90	0.21
10.50	1.65	1.43	0.12	13.10	6.17	5.93	0.20
10.55	1.68	1.46	0.13	13.15	6.20	5.96	0.19
10.60	1.70	1.48	0.14	13.20	6.23	5.99	0.19
10.65	1.73	1.50	0.15	13.25	6.25	6.01	0.18
10.70	1.75	1.53	0.15	13.30	6.28	6.04	0.17
10.75	1.78	1.55	0.16	13.35	6.30	6.07	0.16
10.80	1.80	1.58	0.17	13.40	6.33	6.09	0.16
10.85	1.83	1.61	0.18	13.45	6.35	6.11	0.15
10.90	1.86	1.64	0.18	13.50	6.38	6.14	0.14
10.95	1.90	1.67	0.19	13.55	6.40	6.16	0.13
11.00	1.93	1.70	0.20	13.60	6.42	6.18	0.13
11.05	1.96	1.74	0.21	13.65	6.44	6.20	0.13
11.10	2.00	1.77	0.22	13.70	6.45	6.22	0.12
11.15	2.04	1.81	0.24	13.75	6.47	6.24	0.12
11.20	2.08	1.85	0.25	13.80	6.49	6.25	0.12
11.25	2.13	1.90	0.26	13.85	6.51	6.27	0.12
11.30	2.17	1.94	0.27	13.90	6.53	6.29	0.12
11.35	2.22	1.99	0.29	13.95	6.55	6.31	0.11
11.40	2.27	2.04	0.30	14.00	6.57	6.33	0.11
11.45	2.32	2.09	0.32	14.05	6.58	6.34	0.11
11.50	2.37	2.14	0.32	14.10	6.60	6.36	0.11
11.55	2.45	2.23	0.42	14.15	6.62	6.38	0.11
11.60	2.54	2.31	0.48	14.20	6.63	6.40	0.10
11.65	2.62	2.39	0.51	14.25	6.65	6.41	0.10
11.70	2.71	2.48	0.53	14.30	6.67	6.43	0.10
11.75	2.82	2.59	0.64	14.35	6.68	6.44	0.10
11.80	2.94	2.71	0.70	14.40	6.70	6.46	0.10
11.85	3.10	2.87	0.88	14.45	6.71	6.47	0.09
11.90	3.27	3.03	0.97	14.50	6.73	6.49	0.09
11.95	3.55	3.31	1.41	14.55	6.74	6.50	0.09
12.00	3.83	3.59	1.65	14.60	6.76	6.52	0.09
12.05	4.30	4.06	2.37	14.65	6.77	6.53	0.09
12.10	4.76	4.53	**2.77**	14.70	6.78	6.54	0.09
12.15	4.93	4.69	**1.84**	14.75	6.80	6.56	0.08
12.20	5.09	4.85	1.26	14.80	6.81	6.57	0.08
12.25	5.21	4.97	0.91	14.85	6.82	6.58	0.08
12.30	5.32	5.09	0.78	14.90	6.83	6.59	0.08
12.35	5.41	5.17	0.63	14.95	6.85	6.61	0.08
12.40	5.49	5.26	0.56	15.00	6.86	6.62	0.07
12.45	5.58	5.34	0.52	15.05	6.87	6.63	0.07
12.50	5.66	5.42	0.51	15.10	6.88	6.64	0.07
12.55	5.71	5.47	0.41	15.15	6.89	6.65	0.07
12.60	5.76	5.52	0.35	15.20	6.90	6.66	0.07
12.65	5.81	5.57	0.32	15.25	6.91	6.67	0.07
12.70	5.86	5.62	0.31	15.30	6.92	6.68	0.07
12.75	5.90	5.67	0.29	15.35	6.93	6.70	0.07
12.80	5.95	5.71	0.28	15.40	6.95	6.71	0.07
12.85	5.99	5.75	0.27	15.45	6.96	6.72	0.07
12.90	6.03	5.79	0.26	15.50	6.97	6.73	0.07
12.95	6.07	5.83	0.24	15.55	6.98	6.74	0.07

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	6.99	6.75	0.07	18.20	7.42	7.18	0.04
15.65	7.00	6.76	0.06	18.25	7.43	7.19	0.04
15.70	7.01	6.77	0.06	18.30	7.43	7.19	0.04
15.75	7.02	6.78	0.06	18.35	7.44	7.20	0.04
15.80	7.03	6.79	0.06	18.40	7.44	7.21	0.04
15.85	7.04	6.80	0.06	18.45	7.45	7.21	0.04
15.90	7.05	6.81	0.06	18.50	7.46	7.22	0.04
15.95	7.06	6.82	0.06	18.55	7.46	7.22	0.04
16.00	7.07	6.83	0.06	18.60	7.47	7.23	0.04
16.05	7.08	6.84	0.06	18.65	7.48	7.24	0.04
16.10	7.09	6.85	0.06	18.70	7.48	7.24	0.04
16.15	7.10	6.86	0.06	18.75	7.49	7.25	0.04
16.20	7.11	6.87	0.06	18.80	7.49	7.26	0.04
16.25	7.12	6.88	0.06	18.85	7.50	7.26	0.04
16.30	7.12	6.89	0.06	18.90	7.51	7.27	0.04
16.35	7.13	6.89	0.06	18.95	7.51	7.27	0.04
16.40	7.14	6.90	0.06	19.00	7.52	7.28	0.04
16.45	7.15	6.91	0.06	19.05	7.53	7.29	0.04
16.50	7.16	6.92	0.06	19.10	7.53	7.29	0.04
16.55	7.17	6.93	0.06	19.15	7.54	7.30	0.04
16.60	7.18	6.94	0.06	19.20	7.54	7.30	0.04
16.65	7.19	6.95	0.05	19.25	7.55	7.31	0.04
16.70	7.20	6.96	0.05	19.30	7.56	7.32	0.04
16.75	7.20	6.97	0.05	19.35	7.56	7.32	0.04
16.80	7.21	6.97	0.05	19.40	7.57	7.33	0.04
16.85	7.22	6.98	0.05	19.45	7.57	7.33	0.04
16.90	7.23	6.99	0.05	19.50	7.58	7.34	0.04
16.95	7.24	7.00	0.05	19.55	7.58	7.35	0.04
17.00	7.25	7.01	0.05	19.60	7.59	7.35	0.04
17.05	7.25	7.02	0.05	19.65	7.60	7.36	0.04
17.10	7.26	7.02	0.05	19.70	7.60	7.36	0.04
17.15	7.27	7.03	0.05	19.75	7.61	7.37	0.04
17.20	7.28	7.04	0.05	19.80	7.61	7.37	0.04
17.25	7.29	7.05	0.05	19.85	7.62	7.38	0.04
17.30	7.29	7.05	0.05	19.90	7.63	7.39	0.04
17.35	7.30	7.06	0.05	19.95	7.63	7.39	0.04
17.40	7.31	7.07	0.05	20.00	7.64	7.40	0.04
17.45	7.32	7.08	0.05	20.05	7.64	7.40	0.04
17.50	7.32	7.08	0.05	20.10	7.65	7.41	0.04
17.55	7.33	7.09	0.05	20.15	7.65	7.41	0.04
17.60	7.34	7.10	0.05	20.20	7.66	7.42	0.04
17.65	7.35	7.11	0.04	20.25	7.67	7.43	0.03
17.70	7.35	7.11	0.04	20.30	7.67	7.43	0.03
17.75	7.36	7.12	0.04	20.35	7.68	7.44	0.03
17.80	7.37	7.13	0.04	20.40	7.68	7.44	0.03
17.85	7.37	7.13	0.04	20.45	7.69	7.45	0.03
17.90	7.38	7.14	0.04	20.50	7.69	7.45	0.03
17.95	7.39	7.15	0.04	20.55	7.70	7.46	0.03
18.00	7.39	7.15	0.04	20.60	7.70	7.46	0.03
18.05	7.40	7.16	0.04	20.65	7.71	7.47	0.03
18.10	7.41	7.17	0.04	20.70	7.71	7.48	0.03
18.15	7.41	7.17	0.04	20.75	7.72	7.48	0.03

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	7.73	7.49	0.03	23.40	7.98	7.74	0.03
20.85	7.73	7.49	0.03	23.45	7.98	7.74	0.03
20.90	7.74	7.50	0.03	23.50	7.99	7.75	0.03
20.95	7.74	7.50	0.03	23.55	7.99	7.75	0.03
21.00	7.75	7.51	0.03	23.60	7.99	7.75	0.03
21.05	7.75	7.51	0.03	23.65	8.00	7.76	0.03
21.10	7.76	7.52	0.03	23.70	8.00	7.76	0.03
21.15	7.76	7.52	0.03	23.75	8.01	7.77	0.03
21.20	7.77	7.53	0.03	23.80	8.01	7.77	0.03
21.25	7.77	7.53	0.03	23.85	8.02	7.78	0.03
21.30	7.78	7.54	0.03	23.90	8.02	7.78	0.03
21.35	7.78	7.54	0.03	23.95	8.02	7.79	0.03
21.40	7.79	7.55	0.03	24.00	**8.03**	**7.79**	0.03
21.45	7.79	7.55	0.03				
21.50	7.80	7.56	0.03				
21.55	7.80	7.56	0.03				
21.60	7.81	7.57	0.03				
21.65	7.81	7.57	0.03				
21.70	7.82	7.58	0.03				
21.75	7.82	7.58	0.03				
21.80	7.83	7.59	0.03				
21.85	7.83	7.59	0.03				
21.90	7.84	7.60	0.03				
21.95	7.84	7.60	0.03				
22.00	7.85	7.61	0.03				
22.05	7.85	7.61	0.03				
22.10	7.86	7.62	0.03				
22.15	7.86	7.62	0.03				
22.20	7.87	7.63	0.03				
22.25	7.87	7.63	0.03				
22.30	7.88	7.64	0.03				
22.35	7.88	7.64	0.03				
22.40	7.89	7.65	0.03				
22.45	7.89	7.65	0.03				
22.50	7.90	7.66	0.03				
22.55	7.90	7.66	0.03				
22.60	7.91	7.67	0.03				
22.65	7.91	7.67	0.03				
22.70	7.91	7.68	0.03				
22.75	7.92	7.68	0.03				
22.80	7.92	7.68	0.03				
22.85	7.93	7.69	0.03				
22.90	7.93	7.69	0.03				
22.95	7.94	7.70	0.03				
23.00	7.94	7.70	0.03				
23.05	7.95	7.71	0.03				
23.10	7.95	7.71	0.03				
23.15	7.96	7.72	0.03				
23.20	7.96	7.72	0.03				
23.25	7.96	7.72	0.03				
23.30	7.97	7.73	0.03				
23.35	7.97	7.73	0.03				

Summary for Subcatchment PDA3 IMP: PDA3 IMP

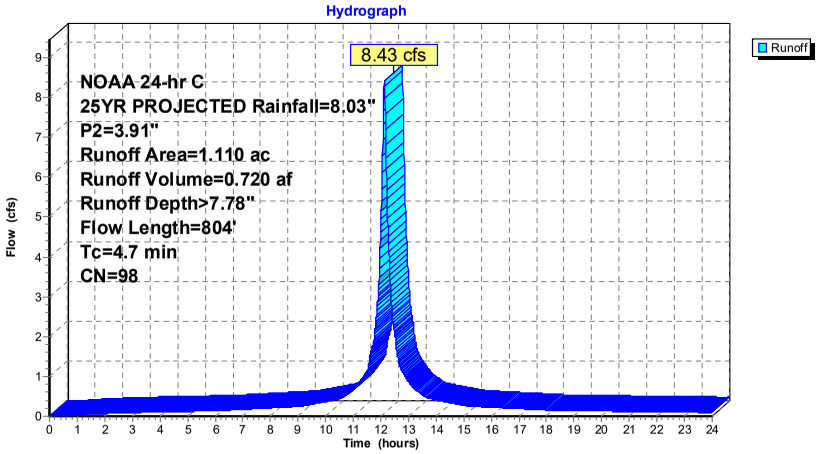
Runoff = 8.43 cfs @ 12.13 hrs, Volume= 0.720 af, Depth> 7.78"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR PROJECTED Rainfall=8.03", P2=3.91"

	Area (ac)	CN	Description
*	0.990	98	Impervious vehicular
*	0.120	98	Impervious non vehicular
	1.110	98	Weighted Average
	1.110		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	100	0.0071	1.00		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.7	172	0.0039	3.90	12.24	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
0.1	27	0.0120	6.84	21.48	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
1.6	439	0.0015	4.45	87.42	**Pipe Channel, RCP_Round 60"** 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.015
4.7	804	Total			

Subcatchment PDA3 IMP: PDA3 IMP



Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.24	0.10	0.08
0.05	0.01	0.00	0.00	2.65	0.25	0.10	0.08
0.10	0.01	0.00	0.00	2.70	0.25	0.11	0.09
0.15	0.01	0.00	0.00	2.75	0.26	0.11	0.09
0.20	0.02	0.00	0.00	2.80	0.26	0.12	0.09
0.25	0.02	0.00	0.00	2.85	0.27	0.12	0.09
0.30	0.03	0.00	0.00	2.90	0.27	0.12	0.09
0.35	0.03	0.00	0.00	2.95	0.28	0.13	0.09
0.40	0.04	0.00	0.00	3.00	0.28	0.13	0.09
0.45	0.04	0.00	0.00	3.05	0.29	0.14	0.09
0.50	0.04	0.00	0.00	3.10	0.29	0.14	0.09
0.55	0.05	0.00	0.00	3.15	0.30	0.14	0.09
0.60	0.05	0.00	0.00	3.20	0.30	0.15	0.09
0.65	0.06	0.00	0.01	3.25	0.31	0.15	0.10
0.70	0.06	0.00	0.01	3.30	0.32	0.16	0.10
0.75	0.07	0.00	0.01	3.35	0.32	0.16	0.10
0.80	0.07	0.00	0.02	3.40	0.33	0.17	0.10
0.85	0.07	0.00	0.02	3.45	0.33	0.17	0.10
0.90	0.08	0.01	0.02	3.50	0.34	0.18	0.10
0.95	0.08	0.01	0.02	3.55	0.34	0.18	0.10
1.00	0.09	0.01	0.03	3.60	0.35	0.18	0.10
1.05	0.09	0.01	0.03	3.65	0.35	0.19	0.10
1.10	0.10	0.01	0.03	3.70	0.36	0.19	0.10
1.15	0.10	0.01	0.04	3.75	0.36	0.20	0.10
1.20	0.11	0.02	0.04	3.80	0.37	0.20	0.11
1.25	0.11	0.02	0.04	3.85	0.38	0.21	0.11
1.30	0.12	0.02	0.04	3.90	0.38	0.21	0.11
1.35	0.12	0.02	0.04	3.95	0.39	0.22	0.11
1.40	0.12	0.02	0.05	4.00	0.39	0.22	0.11
1.45	0.13	0.03	0.05	4.05	0.40	0.23	0.11
1.50	0.13	0.03	0.05	4.10	0.40	0.23	0.11
1.55	0.14	0.03	0.05	4.15	0.41	0.24	0.11
1.60	0.14	0.03	0.05	4.20	0.42	0.24	0.11
1.65	0.15	0.04	0.06	4.25	0.42	0.25	0.11
1.70	0.15	0.04	0.06	4.30	0.43	0.25	0.11
1.75	0.16	0.04	0.06	4.35	0.43	0.26	0.11
1.80	0.16	0.05	0.06	4.40	0.44	0.26	0.11
1.85	0.17	0.05	0.06	4.45	0.45	0.27	0.11
1.90	0.17	0.05	0.06	4.50	0.45	0.27	0.12
1.95	0.18	0.05	0.07	4.55	0.46	0.28	0.12
2.00	0.18	0.06	0.07	4.60	0.46	0.28	0.12
2.05	0.19	0.06	0.07	4.65	0.47	0.29	0.12
2.10	0.19	0.06	0.07	4.70	0.47	0.29	0.12
2.15	0.20	0.07	0.07	4.75	0.48	0.30	0.12
2.20	0.20	0.07	0.07	4.80	0.49	0.31	0.12
2.25	0.21	0.07	0.07	4.85	0.49	0.31	0.12
2.30	0.21	0.08	0.08	4.90	0.50	0.32	0.12
2.35	0.22	0.08	0.08	4.95	0.50	0.32	0.12
2.40	0.22	0.08	0.08	5.00	0.51	0.33	0.12
2.45	0.23	0.09	0.08	5.05	0.52	0.33	0.12
2.50	0.23	0.09	0.08	5.10	0.52	0.34	0.12
2.55	0.24	0.10	0.08	5.15	0.53	0.34	0.12

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.54	0.35	0.12	7.80	0.92	0.72	0.20
5.25	0.54	0.36	0.13	7.85	0.93	0.73	0.20
5.30	0.55	0.36	0.13	7.90	0.94	0.74	0.20
5.35	0.55	0.37	0.13	7.95	0.95	0.74	0.20
5.40	0.56	0.37	0.13	8.00	0.96	0.75	0.21
5.45	0.57	0.38	0.13	8.05	0.97	0.76	0.21
5.50	0.57	0.38	0.13	8.10	0.98	0.77	0.21
5.55	0.58	0.39	0.13	8.15	0.99	0.78	0.21
5.60	0.59	0.40	0.13	8.20	1.00	0.79	0.21
5.65	0.59	0.40	0.13	8.25	1.01	0.80	0.22
5.70	0.60	0.41	0.13	8.30	1.02	0.81	0.22
5.75	0.60	0.41	0.13	8.35	1.03	0.82	0.22
5.80	0.61	0.42	0.13	8.40	1.04	0.83	0.22
5.85	0.62	0.43	0.13	8.45	1.05	0.84	0.22
5.90	0.62	0.43	0.13	8.50	1.06	0.85	0.23
5.95	0.63	0.44	0.13	8.55	1.07	0.86	0.23
6.00	0.64	0.44	0.13	8.60	1.08	0.87	0.23
6.05	0.64	0.45	0.14	8.65	1.10	0.88	0.23
6.10	0.65	0.46	0.14	8.70	1.11	0.89	0.23
6.15	0.66	0.46	0.14	8.75	1.12	0.90	0.23
6.20	0.66	0.47	0.14	8.80	1.13	0.92	0.24
6.25	0.67	0.48	0.14	8.85	1.14	0.93	0.24
6.30	0.68	0.48	0.14	8.90	1.15	0.94	0.24
6.35	0.68	0.49	0.15	8.95	1.16	0.95	0.24
6.40	0.69	0.50	0.15	9.00	1.17	0.96	0.24
6.45	0.70	0.50	0.15	9.05	1.18	0.97	0.25
6.50	0.71	0.51	0.15	9.10	1.20	0.98	0.25
6.55	0.71	0.52	0.15	9.15	1.21	0.99	0.26
6.60	0.72	0.52	0.15	9.20	1.22	1.01	0.26
6.65	0.73	0.53	0.16	9.25	1.23	1.02	0.27
6.70	0.74	0.54	0.16	9.30	1.25	1.03	0.28
6.75	0.74	0.54	0.16	9.35	1.26	1.05	0.28
6.80	0.75	0.55	0.16	9.40	1.27	1.06	0.29
6.85	0.76	0.56	0.16	9.45	1.29	1.07	0.30
6.90	0.77	0.57	0.17	9.50	1.30	1.09	0.30
6.95	0.78	0.57	0.17	9.55	1.32	1.10	0.31
7.00	0.78	0.58	0.17	9.60	1.33	1.12	0.32
7.05	0.79	0.59	0.17	9.65	1.35	1.13	0.32
7.10	0.80	0.60	0.17	9.70	1.36	1.15	0.33
7.15	0.81	0.61	0.18	9.75	1.38	1.16	0.34
7.20	0.82	0.61	0.18	9.80	1.40	1.18	0.34
7.25	0.83	0.62	0.18	9.85	1.41	1.19	0.35
7.30	0.83	0.63	0.18	9.90	1.43	1.21	0.36
7.35	0.84	0.64	0.18	9.95	1.45	1.23	0.36
7.40	0.85	0.65	0.18	10.00	1.46	1.24	0.37
7.45	0.86	0.66	0.19	10.05	1.48	1.26	0.38
7.50	0.87	0.66	0.19	10.10	1.50	1.28	0.38
7.55	0.88	0.67	0.19	10.15	1.52	1.30	0.39
7.60	0.89	0.68	0.19	10.20	1.54	1.32	0.40
7.65	0.90	0.69	0.19	10.25	1.56	1.34	0.40
7.70	0.91	0.70	0.20	10.30	1.58	1.35	0.41
7.75	0.91	0.71	0.20	10.35	1.59	1.37	0.42

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.61	1.39	0.43	13.00	6.10	5.86	0.87
10.45	1.63	1.41	0.43	13.05	6.13	5.90	0.83
10.50	1.65	1.43	0.44	13.10	6.17	5.93	0.78
10.55	1.68	1.46	0.45	13.15	6.20	5.96	0.74
10.60	1.70	1.48	0.47	13.20	6.23	5.99	0.70
10.65	1.73	1.50	0.49	13.25	6.25	6.01	0.68
10.70	1.75	1.53	0.52	13.30	6.28	6.04	0.65
10.75	1.78	1.55	0.54	13.35	6.30	6.07	0.62
10.80	1.80	1.58	0.57	13.40	6.33	6.09	0.59
10.85	1.83	1.61	0.59	13.45	6.35	6.11	0.57
10.90	1.86	1.64	0.62	13.50	6.38	6.14	0.54
10.95	1.90	1.67	0.64	13.55	6.40	6.16	0.52
11.00	1.93	1.70	0.67	13.60	6.42	6.18	0.49
11.05	1.96	1.74	0.70	13.65	6.44	6.20	0.47
11.10	2.00	1.77	0.74	13.70	6.45	6.22	0.46
11.15	2.04	1.81	0.79	13.75	6.47	6.24	0.45
11.20	2.08	1.85	0.83	13.80	6.49	6.25	0.44
11.25	2.13	1.90	0.88	13.85	6.51	6.27	0.43
11.30	2.17	1.94	0.93	13.90	6.53	6.29	0.42
11.35	2.22	1.99	0.97	13.95	6.55	6.31	0.42
11.40	2.27	2.04	1.02	14.00	6.57	6.33	0.41
11.45	2.32	2.09	1.07	14.05	6.58	6.34	0.40
11.50	2.37	2.14	1.11	14.10	6.60	6.36	0.40
11.55	2.45	2.23	1.24	14.15	6.62	6.38	0.39
11.60	2.54	2.31	1.48	14.20	6.63	6.40	0.38
11.65	2.62	2.39	1.64	14.25	6.65	6.41	0.38
11.70	2.71	2.48	1.75	14.30	6.67	6.43	0.37
11.75	2.82	2.59	1.94	14.35	6.68	6.44	0.36
11.80	2.94	2.71	2.23	14.40	6.70	6.46	0.36
11.85	3.10	2.87	2.56	14.45	6.71	6.47	0.35
11.90	3.27	3.03	3.01	14.50	6.73	6.49	0.34
11.95	3.55	3.31	3.71	14.55	6.74	6.50	0.34
12.00	3.83	3.59	4.80	14.60	6.76	6.52	0.33
12.05	4.30	4.06	6.11	14.65	6.77	6.53	0.32
12.10	4.76	4.53	**7.97**	14.70	6.78	6.54	0.31
12.15	4.93	4.69	**7.97**	14.75	6.80	6.56	0.31
12.20	5.09	4.85	6.20	14.80	6.81	6.57	0.30
12.25	5.21	4.97	4.96	14.85	6.82	6.58	0.30
12.30	5.32	5.09	3.97	14.90	6.83	6.59	0.29
12.35	5.41	5.17	3.26	14.95	6.85	6.61	0.28
12.40	5.49	5.26	2.65	15.00	6.86	6.62	0.27
12.45	5.58	5.34	2.28	15.05	6.87	6.63	0.27
12.50	5.66	5.42	2.06	15.10	6.88	6.64	0.26
12.55	5.71	5.47	1.84	15.15	6.89	6.65	0.26
12.60	5.76	5.52	1.54	15.20	6.90	6.66	0.25
12.65	5.81	5.57	1.36	15.25	6.91	6.67	0.25
12.70	5.86	5.62	1.24	15.30	6.92	6.68	0.25
12.75	5.90	5.67	1.16	15.35	6.93	6.70	0.25
12.80	5.95	5.71	1.09	15.40	6.95	6.71	0.24
12.85	5.99	5.75	1.03	15.45	6.96	6.72	0.24
12.90	6.03	5.79	0.97	15.50	6.97	6.73	0.24
12.95	6.07	5.83	0.93	15.55	6.98	6.74	0.24

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	6.99	6.75	0.24	18.20	7.42	7.18	0.14
15.65	7.00	6.76	0.23	18.25	7.43	7.19	0.14
15.70	7.01	6.77	0.23	18.30	7.43	7.19	0.14
15.75	7.02	6.78	0.23	18.35	7.44	7.20	0.14
15.80	7.03	6.79	0.23	18.40	7.44	7.21	0.14
15.85	7.04	6.80	0.23	18.45	7.45	7.21	0.14
15.90	7.05	6.81	0.23	18.50	7.46	7.22	0.14
15.95	7.06	6.82	0.22	18.55	7.46	7.22	0.14
16.00	7.07	6.83	0.22	18.60	7.47	7.23	0.14
16.05	7.08	6.84	0.22	18.65	7.48	7.24	0.14
16.10	7.09	6.85	0.22	18.70	7.48	7.24	0.14
16.15	7.10	6.86	0.22	18.75	7.49	7.25	0.14
16.20	7.11	6.87	0.22	18.80	7.49	7.26	0.14
16.25	7.12	6.88	0.21	18.85	7.50	7.26	0.14
16.30	7.12	6.89	0.21	18.90	7.51	7.27	0.14
16.35	7.13	6.89	0.21	18.95	7.51	7.27	0.14
16.40	7.14	6.90	0.21	19.00	7.52	7.28	0.14
16.45	7.15	6.91	0.21	19.05	7.53	7.29	0.14
16.50	7.16	6.92	0.20	19.10	7.53	7.29	0.14
16.55	7.17	6.93	0.20	19.15	7.54	7.30	0.14
16.60	7.18	6.94	0.20	19.20	7.54	7.30	0.14
16.65	7.19	6.95	0.20	19.25	7.55	7.31	0.13
16.70	7.20	6.96	0.20	19.30	7.56	7.32	0.13
16.75	7.20	6.97	0.20	19.35	7.56	7.32	0.13
16.80	7.21	6.97	0.19	19.40	7.57	7.33	0.13
16.85	7.22	6.98	0.19	19.45	7.57	7.33	0.13
16.90	7.23	6.99	0.19	19.50	7.58	7.34	0.13
16.95	7.24	7.00	0.19	19.55	7.58	7.35	0.13
17.00	7.25	7.01	0.19	19.60	7.59	7.35	0.13
17.05	7.25	7.02	0.18	19.65	7.60	7.36	0.13
17.10	7.26	7.02	0.18	19.70	7.60	7.36	0.13
17.15	7.27	7.03	0.18	19.75	7.61	7.37	0.13
17.20	7.28	7.04	0.18	19.80	7.61	7.37	0.13
17.25	7.29	7.05	0.18	19.85	7.62	7.38	0.13
17.30	7.29	7.05	0.18	19.90	7.63	7.39	0.13
17.35	7.30	7.06	0.17	19.95	7.63	7.39	0.13
17.40	7.31	7.07	0.17	20.00	7.64	7.40	0.13
17.45	7.32	7.08	0.17	20.05	7.64	7.40	0.13
17.50	7.32	7.08	0.17	20.10	7.65	7.41	0.13
17.55	7.33	7.09	0.17	20.15	7.65	7.41	0.13
17.60	7.34	7.10	0.16	20.20	7.66	7.42	0.13
17.65	7.35	7.11	0.16	20.25	7.67	7.43	0.13
17.70	7.35	7.11	0.16	20.30	7.67	7.43	0.13
17.75	7.36	7.12	0.16	20.35	7.68	7.44	0.13
17.80	7.37	7.13	0.16	20.40	7.68	7.44	0.12
17.85	7.37	7.13	0.16	20.45	7.69	7.45	0.12
17.90	7.38	7.14	0.15	20.50	7.69	7.45	0.12
17.95	7.39	7.15	0.15	20.55	7.70	7.46	0.12
18.00	7.39	7.15	0.15	20.60	7.70	7.46	0.12
18.05	7.40	7.16	0.15	20.65	7.71	7.47	0.12
18.10	7.41	7.17	0.15	20.70	7.71	7.48	0.12
18.15	7.41	7.17	0.15	20.75	7.72	7.48	0.12

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	7.73	7.49	0.12	23.40	7.98	7.74	0.10
20.85	7.73	7.49	0.12	23.45	7.98	7.74	0.10
20.90	7.74	7.50	0.12	23.50	7.99	7.75	0.10
20.95	7.74	7.50	0.12	23.55	7.99	7.75	0.10
21.00	7.75	7.51	0.12	23.60	7.99	7.75	0.10
21.05	7.75	7.51	0.12	23.65	8.00	7.76	0.10
21.10	7.76	7.52	0.12	23.70	8.00	7.76	0.10
21.15	7.76	7.52	0.12	23.75	8.01	7.77	0.10
21.20	7.77	7.53	0.12	23.80	8.01	7.77	0.09
21.25	7.77	7.53	0.12	23.85	8.02	7.78	0.09
21.30	7.78	7.54	0.12	23.90	8.02	7.78	0.09
21.35	7.78	7.54	0.12	23.95	8.02	7.79	0.10
21.40	7.79	7.55	0.12	24.00	**8.03**	**7.79**	0.10
21.45	7.79	7.55	0.12				
21.50	7.80	7.56	0.11				
21.55	7.80	7.56	0.11				
21.60	7.81	7.57	0.11				
21.65	7.81	7.57	0.11				
21.70	7.82	7.58	0.11				
21.75	7.82	7.58	0.11				
21.80	7.83	7.59	0.11				
21.85	7.83	7.59	0.11				
21.90	7.84	7.60	0.11				
21.95	7.84	7.60	0.11				
22.00	7.85	7.61	0.11				
22.05	7.85	7.61	0.11				
22.10	7.86	7.62	0.11				
22.15	7.86	7.62	0.11				
22.20	7.87	7.63	0.11				
22.25	7.87	7.63	0.11				
22.30	7.88	7.64	0.11				
22.35	7.88	7.64	0.11				
22.40	7.89	7.65	0.11				
22.45	7.89	7.65	0.11				
22.50	7.90	7.66	0.11				
22.55	7.90	7.66	0.11				
22.60	7.91	7.67	0.11				
22.65	7.91	7.67	0.10				
22.70	7.91	7.68	0.10				
22.75	7.92	7.68	0.10				
22.80	7.92	7.68	0.10				
22.85	7.93	7.69	0.10				
22.90	7.93	7.69	0.10				
22.95	7.94	7.70	0.10				
23.00	7.94	7.70	0.10				
23.05	7.95	7.71	0.10				
23.10	7.95	7.71	0.10				
23.15	7.96	7.72	0.10				
23.20	7.96	7.72	0.10				
23.25	7.96	7.72	0.10				
23.30	7.97	7.73	0.10				
23.35	7.97	7.73	0.10				

Summary for Subcatchment PDA3 PERV: PDA3 PERV

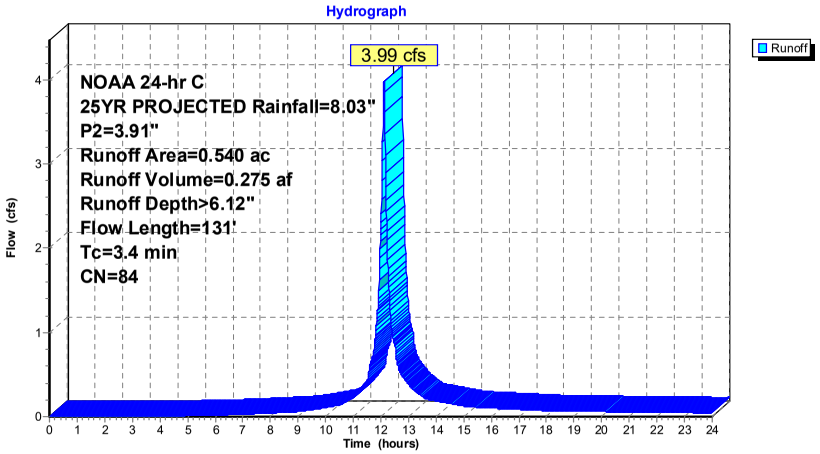
Runoff = 3.99 cfs @ 12.12 hrs, Volume= 0.275 af, Depth> 6.12"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR PROJECTED Rainfall=8.03", P2=3.91"

	Area (ac)	CN	Description
*	0.540	84	>75% Grass cover, Good, HSG D
	0.540		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.7	23	0.0200	0.14		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.1	42	0.0150	5.59	6.86	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
3.4	131	Total			

Subcatchment PDA3 PERV: PDA3 PERV



Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.24	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.25	0.00	0.00
0.10	0.01	0.00	0.00	2.70	0.25	0.00	0.00
0.15	0.01	0.00	0.00	2.75	0.26	0.00	0.00
0.20	0.02	0.00	0.00	2.80	0.26	0.00	0.00
0.25	0.02	0.00	0.00	2.85	0.27	0.00	0.00
0.30	0.03	0.00	0.00	2.90	0.27	0.00	0.00
0.35	0.03	0.00	0.00	2.95	0.28	0.00	0.00
0.40	0.04	0.00	0.00	3.00	0.28	0.00	0.00
0.45	0.04	0.00	0.00	3.05	0.29	0.00	0.00
0.50	0.04	0.00	0.00	3.10	0.29	0.00	0.00
0.55	0.05	0.00	0.00	3.15	0.30	0.00	0.00
0.60	0.05	0.00	0.00	3.20	0.30	0.00	0.00
0.65	0.06	0.00	0.00	3.25	0.31	0.00	0.00
0.70	0.06	0.00	0.00	3.30	0.32	0.00	0.00
0.75	0.07	0.00	0.00	3.35	0.32	0.00	0.00
0.80	0.07	0.00	0.00	3.40	0.33	0.00	0.00
0.85	0.07	0.00	0.00	3.45	0.33	0.00	0.00
0.90	0.08	0.00	0.00	3.50	0.34	0.00	0.00
0.95	0.08	0.00	0.00	3.55	0.34	0.00	0.00
1.00	0.09	0.00	0.00	3.60	0.35	0.00	0.00
1.05	0.09	0.00	0.00	3.65	0.35	0.00	0.00
1.10	0.10	0.00	0.00	3.70	0.36	0.00	0.00
1.15	0.10	0.00	0.00	3.75	0.36	0.00	0.00
1.20	0.11	0.00	0.00	3.80	0.37	0.00	0.00
1.25	0.11	0.00	0.00	3.85	0.38	0.00	0.00
1.30	0.12	0.00	0.00	3.90	0.38	0.00	0.00
1.35	0.12	0.00	0.00	3.95	0.39	0.00	0.00
1.40	0.12	0.00	0.00	4.00	0.39	0.00	0.00
1.45	0.13	0.00	0.00	4.05	0.40	0.00	0.00
1.50	0.13	0.00	0.00	4.10	0.40	0.00	0.00
1.55	0.14	0.00	0.00	4.15	0.41	0.00	0.00
1.60	0.14	0.00	0.00	4.20	0.42	0.00	0.00
1.65	0.15	0.00	0.00	4.25	0.42	0.00	0.00
1.70	0.15	0.00	0.00	4.30	0.43	0.00	0.00
1.75	0.16	0.00	0.00	4.35	0.43	0.00	0.00
1.80	0.16	0.00	0.00	4.40	0.44	0.00	0.00
1.85	0.17	0.00	0.00	4.45	0.45	0.00	0.00
1.90	0.17	0.00	0.00	4.50	0.45	0.00	0.00
1.95	0.18	0.00	0.00	4.55	0.46	0.00	0.00
2.00	0.18	0.00	0.00	4.60	0.46	0.00	0.00
2.05	0.19	0.00	0.00	4.65	0.47	0.00	0.00
2.10	0.19	0.00	0.00	4.70	0.47	0.00	0.01
2.15	0.20	0.00	0.00	4.75	0.48	0.00	0.01
2.20	0.20	0.00	0.00	4.80	0.49	0.01	0.01
2.25	0.21	0.00	0.00	4.85	0.49	0.01	0.01
2.30	0.21	0.00	0.00	4.90	0.50	0.01	0.01
2.35	0.22	0.00	0.00	4.95	0.50	0.01	0.01
2.40	0.22	0.00	0.00	5.00	0.51	0.01	0.01
2.45	0.23	0.00	0.00	5.05	0.52	0.01	0.01
2.50	0.23	0.00	0.00	5.10	0.52	0.01	0.01
2.55	0.24	0.00	0.00	5.15	0.53	0.01	0.01

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.54	0.01	0.01	7.80	0.92	0.12	0.04
5.25	0.54	0.01	0.01	7.85	0.93	0.12	0.04
5.30	0.55	0.01	0.01	7.90	0.94	0.13	0.04
5.35	0.55	0.01	0.01	7.95	0.95	0.13	0.04
5.40	0.56	0.02	0.01	8.00	0.96	0.14	0.04
5.45	0.57	0.02	0.01	8.05	0.97	0.14	0.04
5.50	0.57	0.02	0.01	8.10	0.98	0.14	0.04
5.55	0.58	0.02	0.01	8.15	0.99	0.15	0.04
5.60	0.59	0.02	0.01	8.20	1.00	0.15	0.05
5.65	0.59	0.02	0.01	8.25	1.01	0.16	0.05
5.70	0.60	0.02	0.01	8.30	1.02	0.16	0.05
5.75	0.60	0.02	0.01	8.35	1.03	0.17	0.05
5.80	0.61	0.02	0.01	8.40	1.04	0.17	0.05
5.85	0.62	0.03	0.01	8.45	1.05	0.18	0.05
5.90	0.62	0.03	0.01	8.50	1.06	0.18	0.05
5.95	0.63	0.03	0.01	8.55	1.07	0.18	0.05
6.00	0.64	0.03	0.02	8.60	1.08	0.19	0.05
6.05	0.64	0.03	0.02	8.65	1.10	0.19	0.05
6.10	0.65	0.03	0.02	8.70	1.11	0.20	0.05
6.15	0.66	0.03	0.02	8.75	1.12	0.21	0.06
6.20	0.66	0.04	0.02	8.80	1.13	0.21	0.06
6.25	0.67	0.04	0.02	8.85	1.14	0.22	0.06
6.30	0.68	0.04	0.02	8.90	1.15	0.22	0.06
6.35	0.68	0.04	0.02	8.95	1.16	0.23	0.06
6.40	0.69	0.04	0.02	9.00	1.17	0.23	0.06
6.45	0.70	0.05	0.02	9.05	1.18	0.24	0.06
6.50	0.71	0.05	0.02	9.10	1.20	0.24	0.06
6.55	0.71	0.05	0.02	9.15	1.21	0.25	0.07
6.60	0.72	0.05	0.02	9.20	1.22	0.26	0.07
6.65	0.73	0.05	0.02	9.25	1.23	0.26	0.07
6.70	0.74	0.06	0.02	9.30	1.25	0.27	0.07
6.75	0.74	0.06	0.02	9.35	1.26	0.28	0.08
6.80	0.75	0.06	0.02	9.40	1.27	0.29	0.08
6.85	0.76	0.06	0.02	9.45	1.29	0.29	0.08
6.90	0.77	0.07	0.03	9.50	1.30	0.30	0.08
6.95	0.78	0.07	0.03	9.55	1.32	0.31	0.08
7.00	0.78	0.07	0.03	9.60	1.33	0.32	0.09
7.05	0.79	0.07	0.03	9.65	1.35	0.33	0.09
7.10	0.80	0.08	0.03	9.70	1.36	0.33	0.09
7.15	0.81	0.08	0.03	9.75	1.38	0.34	0.10
7.20	0.82	0.08	0.03	9.80	1.40	0.35	0.10
7.25	0.83	0.08	0.03	9.85	1.41	0.36	0.10
7.30	0.83	0.09	0.03	9.90	1.43	0.37	0.10
7.35	0.84	0.09	0.03	9.95	1.45	0.38	0.11
7.40	0.85	0.09	0.03	10.00	1.46	0.39	0.11
7.45	0.86	0.10	0.03	10.05	1.48	0.40	0.11
7.50	0.87	0.10	0.03	10.10	1.50	0.41	0.11
7.55	0.88	0.10	0.04	10.15	1.52	0.43	0.12
7.60	0.89	0.11	0.04	10.20	1.54	0.44	0.12
7.65	0.90	0.11	0.04	10.25	1.56	0.45	0.12
7.70	0.91	0.11	0.04	10.30	1.58	0.46	0.13
7.75	0.91	0.12	0.04	10.35	1.59	0.47	0.13

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.61	0.48	0.13	13.00	6.10	4.29	0.39
10.45	1.63	0.50	0.14	13.05	6.13	4.32	0.36
10.50	1.65	0.51	0.14	13.10	6.17	4.35	0.34
10.55	1.68	0.53	0.15	13.15	6.20	4.38	0.32
10.60	1.70	0.54	0.15	13.20	6.23	4.41	0.31
10.65	1.73	0.56	0.16	13.25	6.25	4.43	0.30
10.70	1.75	0.57	0.17	13.30	6.28	4.46	0.29
10.75	1.78	0.59	0.18	13.35	6.30	4.48	0.28
10.80	1.80	0.61	0.19	13.40	6.33	4.51	0.26
10.85	1.83	0.63	0.20	13.45	6.35	4.53	0.25
10.90	1.86	0.65	0.21	13.50	6.38	4.55	0.24
10.95	1.90	0.67	0.22	13.55	6.40	4.57	0.23
11.00	1.93	0.69	0.23	13.60	6.42	4.59	0.22
11.05	1.96	0.72	0.25	13.65	6.44	4.61	0.21
11.10	2.00	0.74	0.26	13.70	6.45	4.62	0.21
11.15	2.04	0.77	0.28	13.75	6.47	4.64	0.20
11.20	2.08	0.80	0.30	13.80	6.49	4.66	0.20
11.25	2.13	0.83	0.32	13.85	6.51	4.68	0.20
11.30	2.17	0.87	0.34	13.90	6.53	4.69	0.19
11.35	2.22	0.90	0.36	13.95	6.55	4.71	0.19
11.40	2.27	0.94	0.38	14.00	6.57	4.73	0.19
11.45	2.32	0.98	0.40	14.05	6.58	4.74	0.18
11.50	2.37	1.02	0.42	14.10	6.60	4.76	0.18
11.55	2.45	1.08	0.50	14.15	6.62	4.78	0.18
11.60	2.54	1.14	0.60	14.20	6.63	4.79	0.17
11.65	2.62	1.21	0.66	14.25	6.65	4.81	0.17
11.70	2.71	1.28	0.70	14.30	6.67	4.82	0.17
11.75	2.82	1.37	0.81	14.35	6.68	4.84	0.16
11.80	2.94	1.47	0.93	14.40	6.70	4.85	0.16
11.85	3.10	1.60	1.12	14.45	6.71	4.87	0.16
11.90	3.27	1.74	1.31	14.50	6.73	4.88	0.16
11.95	3.55	1.98	1.76	14.55	6.74	4.89	0.15
12.00	3.83	2.22	2.23	14.60	6.76	4.91	0.15
12.05	4.30	2.63	3.04	14.65	6.77	4.92	0.15
12.10	4.76	3.06	**3.87**	14.70	6.78	4.93	0.14
12.15	4.93	3.20	**3.35**	14.75	6.80	4.95	0.14
12.20	5.09	3.35	2.43	14.80	6.81	4.96	0.14
12.25	5.21	3.46	1.86	14.85	6.82	4.97	0.13
12.30	5.32	3.57	1.47	14.90	6.83	4.98	0.13
12.35	5.41	3.65	1.19	14.95	6.85	4.99	0.13
12.40	5.49	3.73	1.00	15.00	6.86	5.00	0.12
12.45	5.58	3.80	0.90	15.05	6.87	5.02	0.12
12.50	5.66	3.88	0.85	15.10	6.88	5.03	0.12
12.55	5.71	3.93	0.74	15.15	6.89	5.04	0.12
12.60	5.76	3.97	0.63	15.20	6.90	5.05	0.12
12.65	5.81	4.02	0.56	15.25	6.91	5.06	0.11
12.70	5.86	4.07	0.53	15.30	6.92	5.07	0.11
12.75	5.90	4.11	0.50	15.35	6.93	5.08	0.11
12.80	5.95	4.15	0.47	15.40	6.95	5.09	0.11
12.85	5.99	4.19	0.45	15.45	6.96	5.10	0.11
12.90	6.03	4.23	0.43	15.50	6.97	5.11	0.11
12.95	6.07	4.26	0.41	15.55	6.98	5.12	0.11

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	6.99	5.13	0.11	18.20	7.42	5.54	0.07
15.65	7.00	5.14	0.11	18.25	7.43	5.55	0.07
15.70	7.01	5.15	0.11	18.30	7.43	5.55	0.07
15.75	7.02	5.16	0.11	18.35	7.44	5.56	0.07
15.80	7.03	5.17	0.11	18.40	7.44	5.56	0.07
15.85	7.04	5.18	0.10	18.45	7.45	5.57	0.07
15.90	7.05	5.19	0.10	18.50	7.46	5.58	0.07
15.95	7.06	5.20	0.10	18.55	7.46	5.58	0.07
16.00	7.07	5.20	0.10	18.60	7.47	5.59	0.07
16.05	7.08	5.21	0.10	18.65	7.48	5.59	0.07
16.10	7.09	5.22	0.10	18.70	7.48	5.60	0.06
16.15	7.10	5.23	0.10	18.75	7.49	5.61	0.06
16.20	7.11	5.24	0.10	18.80	7.49	5.61	0.06
16.25	7.12	5.25	0.10	18.85	7.50	5.62	0.06
16.30	7.12	5.26	0.10	18.90	7.51	5.62	0.06
16.35	7.13	5.27	0.10	18.95	7.51	5.63	0.06
16.40	7.14	5.28	0.10	19.00	7.52	5.63	0.06
16.45	7.15	5.28	0.09	19.05	7.53	5.64	0.06
16.50	7.16	5.29	0.09	19.10	7.53	5.65	0.06
16.55	7.17	5.30	0.09	19.15	7.54	5.65	0.06
16.60	7.18	5.31	0.09	19.20	7.54	5.66	0.06
16.65	7.19	5.32	0.09	19.25	7.55	5.66	0.06
16.70	7.20	5.33	0.09	19.30	7.56	5.67	0.06
16.75	7.20	5.33	0.09	19.35	7.56	5.67	0.06
16.80	7.21	5.34	0.09	19.40	7.57	5.68	0.06
16.85	7.22	5.35	0.09	19.45	7.57	5.69	0.06
16.90	7.23	5.36	0.09	19.50	7.58	5.69	0.06
16.95	7.24	5.37	0.09	19.55	7.58	5.70	0.06
17.00	7.25	5.37	0.09	19.60	7.59	5.70	0.06
17.05	7.25	5.38	0.09	19.65	7.60	5.71	0.06
17.10	7.26	5.39	0.08	19.70	7.60	5.71	0.06
17.15	7.27	5.40	0.08	19.75	7.61	5.72	0.06
17.20	7.28	5.41	0.08	19.80	7.61	5.73	0.06
17.25	7.29	5.41	0.08	19.85	7.62	5.73	0.06
17.30	7.29	5.42	0.08	19.90	7.63	5.74	0.06
17.35	7.30	5.43	0.08	19.95	7.63	5.74	0.06
17.40	7.31	5.43	0.08	20.00	7.64	5.75	0.06
17.45	7.32	5.44	0.08	20.05	7.64	5.75	0.06
17.50	7.32	5.45	0.08	20.10	7.65	5.76	0.06
17.55	7.33	5.46	0.08	20.15	7.65	5.76	0.06
17.60	7.34	5.46	0.08	20.20	7.66	5.77	0.06
17.65	7.35	5.47	0.08	20.25	7.67	5.77	0.06
17.70	7.35	5.48	0.07	20.30	7.67	5.78	0.06
17.75	7.36	5.48	0.07	20.35	7.68	5.78	0.06
17.80	7.37	5.49	0.07	20.40	7.68	5.79	0.06
17.85	7.37	5.50	0.07	20.45	7.69	5.80	0.06
17.90	7.38	5.50	0.07	20.50	7.69	5.80	0.06
17.95	7.39	5.51	0.07	20.55	7.70	5.81	0.06
18.00	7.39	5.51	0.07	20.60	7.70	5.81	0.06
18.05	7.40	5.52	0.07	20.65	7.71	5.82	0.06
18.10	7.41	5.53	0.07	20.70	7.71	5.82	0.06
18.15	7.41	5.53	0.07	20.75	7.72	5.83	0.06

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	7.73	5.83	0.06	23.40	7.98	6.07	0.05
20.85	7.73	5.84	0.06	23.45	7.98	6.08	0.05
20.90	7.74	5.84	0.06	23.50	7.99	6.08	0.05
20.95	7.74	5.85	0.06	23.55	7.99	6.09	0.04
21.00	7.75	5.85	0.06	23.60	7.99	6.09	0.04
21.05	7.75	5.86	0.06	23.65	8.00	6.09	0.04
21.10	7.76	5.86	0.06	23.70	8.00	6.10	0.04
21.15	7.76	5.87	0.05	23.75	8.01	6.10	0.04
21.20	7.77	5.87	0.05	23.80	8.01	6.11	0.04
21.25	7.77	5.88	0.05	23.85	8.02	6.11	0.04
21.30	7.78	5.88	0.05	23.90	8.02	6.11	0.04
21.35	7.78	5.89	0.05	23.95	8.02	6.12	0.05
21.40	7.79	5.89	0.05	24.00	**8.03**	**6.12**	0.05
21.45	7.79	5.90	0.05				
21.50	7.80	5.90	0.05				
21.55	7.80	5.91	0.05				
21.60	7.81	5.91	0.05				
21.65	7.81	5.92	0.05				
21.70	7.82	5.92	0.05				
21.75	7.82	5.93	0.05				
21.80	7.83	5.93	0.05				
21.85	7.83	5.94	0.05				
21.90	7.84	5.94	0.05				
21.95	7.84	5.95	0.05				
22.00	7.85	5.95	0.05				
22.05	7.85	5.95	0.05				
22.10	7.86	5.96	0.05				
22.15	7.86	5.96	0.05				
22.20	7.87	5.97	0.05				
22.25	7.87	5.97	0.05				
22.30	7.88	5.98	0.05				
22.35	7.88	5.98	0.05				
22.40	7.89	5.99	0.05				
22.45	7.89	5.99	0.05				
22.50	7.90	6.00	0.05				
22.55	7.90	6.00	0.05				
22.60	7.91	6.00	0.05				
22.65	7.91	6.01	0.05				
22.70	7.91	6.01	0.05				
22.75	7.92	6.02	0.05				
22.80	7.92	6.02	0.05				
22.85	7.93	6.03	0.05				
22.90	7.93	6.03	0.05				
22.95	7.94	6.04	0.05				
23.00	7.94	6.04	0.05				
23.05	7.95	6.04	0.05				
23.10	7.95	6.05	0.05				
23.15	7.96	6.05	0.05				
23.20	7.96	6.06	0.05				
23.25	7.96	6.06	0.05				
23.30	7.97	6.07	0.05				
23.35	7.97	6.07	0.05				

Summary for Subcatchment PDA4 IMP: PDA4 IMP

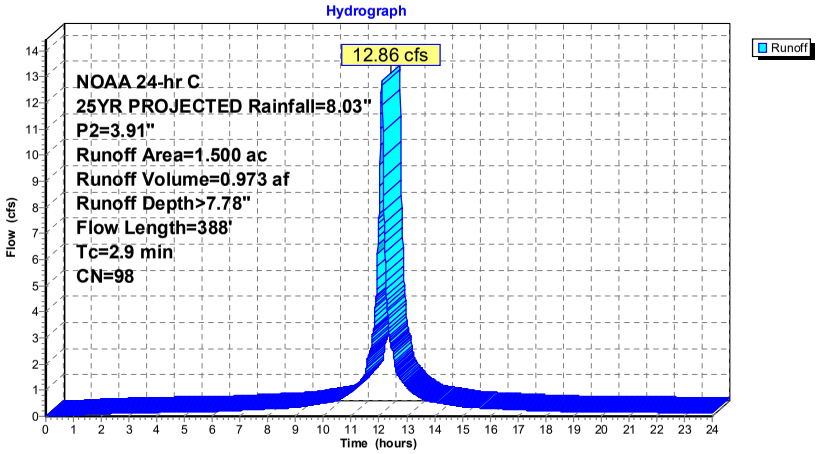
Runoff = 12.86 cfs @ 12.11 hrs, Volume= 0.973 af, Depth> 7.78"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 25YR PROJECTED Rainfall=8.03", P2=3.91"

	Area (ac)	CN	Description
*	1.500	98	Impervious vehicular
	1.500		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0160	1.39		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	88	0.0150	2.49		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.5	100	0.0039	3.22	5.69	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.6	100	0.0020	2.79	8.77	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
2.9	388	Total			

Subcatchment PDA4 IMP: PDA4 IMP



Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.24	0.10	0.11
0.05	0.01	0.00	0.00	2.65	0.25	0.10	0.11
0.10	0.01	0.00	0.00	2.70	0.25	0.11	0.12
0.15	0.01	0.00	0.00	2.75	0.26	0.11	0.12
0.20	0.02	0.00	0.00	2.80	0.26	0.12	0.12
0.25	0.02	0.00	0.00	2.85	0.27	0.12	0.12
0.30	0.03	0.00	0.00	2.90	0.27	0.12	0.12
0.35	0.03	0.00	0.00	2.95	0.28	0.13	0.12
0.40	0.04	0.00	0.00	3.00	0.28	0.13	0.12
0.45	0.04	0.00	0.00	3.05	0.29	0.14	0.13
0.50	0.04	0.00	0.00	3.10	0.29	0.14	0.13
0.55	0.05	0.00	0.00	3.15	0.30	0.14	0.13
0.60	0.05	0.00	0.01	3.20	0.30	0.15	0.13
0.65	0.06	0.00	0.01	3.25	0.31	0.15	0.13
0.70	0.06	0.00	0.02	3.30	0.32	0.16	0.13
0.75	0.07	0.00	0.02	3.35	0.32	0.16	0.13
0.80	0.07	0.00	0.03	3.40	0.33	0.17	0.13
0.85	0.07	0.00	0.03	3.45	0.33	0.17	0.14
0.90	0.08	0.01	0.03	3.50	0.34	0.18	0.14
0.95	0.08	0.01	0.04	3.55	0.34	0.18	0.14
1.00	0.09	0.01	0.04	3.60	0.35	0.18	0.14
1.05	0.09	0.01	0.04	3.65	0.35	0.19	0.14
1.10	0.10	0.01	0.05	3.70	0.36	0.19	0.14
1.15	0.10	0.01	0.05	3.75	0.36	0.20	0.14
1.20	0.11	0.02	0.05	3.80	0.37	0.20	0.14
1.25	0.11	0.02	0.06	3.85	0.38	0.21	0.14
1.30	0.12	0.02	0.06	3.90	0.38	0.21	0.15
1.35	0.12	0.02	0.06	3.95	0.39	0.22	0.15
1.40	0.12	0.02	0.07	4.00	0.39	0.22	0.15
1.45	0.13	0.03	0.07	4.05	0.40	0.23	0.15
1.50	0.13	0.03	0.07	4.10	0.40	0.23	0.15
1.55	0.14	0.03	0.07	4.15	0.41	0.24	0.15
1.60	0.14	0.03	0.08	4.20	0.42	0.24	0.15
1.65	0.15	0.04	0.08	4.25	0.42	0.25	0.15
1.70	0.15	0.04	0.08	4.30	0.43	0.25	0.15
1.75	0.16	0.04	0.08	4.35	0.43	0.26	0.15
1.80	0.16	0.05	0.08	4.40	0.44	0.26	0.16
1.85	0.17	0.05	0.09	4.45	0.45	0.27	0.16
1.90	0.17	0.05	0.09	4.50	0.45	0.27	0.16
1.95	0.18	0.05	0.09	4.55	0.46	0.28	0.16
2.00	0.18	0.06	0.09	4.60	0.46	0.28	0.16
2.05	0.19	0.06	0.10	4.65	0.47	0.29	0.16
2.10	0.19	0.06	0.10	4.70	0.47	0.29	0.16
2.15	0.20	0.07	0.10	4.75	0.48	0.30	0.16
2.20	0.20	0.07	0.10	4.80	0.49	0.31	0.16
2.25	0.21	0.07	0.10	4.85	0.49	0.31	0.16
2.30	0.21	0.08	0.10	4.90	0.50	0.32	0.16
2.35	0.22	0.08	0.11	4.95	0.50	0.32	0.17
2.40	0.22	0.08	0.11	5.00	0.51	0.33	0.17
2.45	0.23	0.09	0.11	5.05	0.52	0.33	0.17
2.50	0.23	0.09	0.11	5.10	0.52	0.34	0.17
2.55	0.24	0.10	0.11	5.15	0.53	0.34	0.17

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.54	0.35	0.17	7.80	0.92	0.72	0.27
5.25	0.54	0.36	0.17	7.85	0.93	0.73	0.27
5.30	0.55	0.36	0.17	7.90	0.94	0.74	0.28
5.35	0.55	0.37	0.17	7.95	0.95	0.74	0.28
5.40	0.56	0.37	0.17	8.00	0.96	0.75	0.28
5.45	0.57	0.38	0.17	8.05	0.97	0.76	0.28
5.50	0.57	0.38	0.17	8.10	0.98	0.77	0.29
5.55	0.58	0.39	0.18	8.15	0.99	0.78	0.29
5.60	0.59	0.40	0.18	8.20	1.00	0.79	0.29
5.65	0.59	0.40	0.18	8.25	1.01	0.80	0.29
5.70	0.60	0.41	0.18	8.30	1.02	0.81	0.30
5.75	0.60	0.41	0.18	8.35	1.03	0.82	0.30
5.80	0.61	0.42	0.18	8.40	1.04	0.83	0.30
5.85	0.62	0.43	0.18	8.45	1.05	0.84	0.30
5.90	0.62	0.43	0.18	8.50	1.06	0.85	0.31
5.95	0.63	0.44	0.18	8.55	1.07	0.86	0.31
6.00	0.64	0.44	0.18	8.60	1.08	0.87	0.31
6.05	0.64	0.45	0.18	8.65	1.10	0.88	0.31
6.10	0.65	0.46	0.19	8.70	1.11	0.89	0.32
6.15	0.66	0.46	0.19	8.75	1.12	0.90	0.32
6.20	0.66	0.47	0.19	8.80	1.13	0.92	0.32
6.25	0.67	0.48	0.19	8.85	1.14	0.93	0.32
6.30	0.68	0.48	0.20	8.90	1.15	0.94	0.33
6.35	0.68	0.49	0.20	8.95	1.16	0.95	0.33
6.40	0.69	0.50	0.20	9.00	1.17	0.96	0.33
6.45	0.70	0.50	0.20	9.05	1.18	0.97	0.34
6.50	0.71	0.51	0.21	9.10	1.20	0.98	0.35
6.55	0.71	0.52	0.21	9.15	1.21	0.99	0.36
6.60	0.72	0.52	0.21	9.20	1.22	1.01	0.36
6.65	0.73	0.53	0.21	9.25	1.23	1.02	0.37
6.70	0.74	0.54	0.22	9.30	1.25	1.03	0.38
6.75	0.74	0.54	0.22	9.35	1.26	1.05	0.39
6.80	0.75	0.55	0.22	9.40	1.27	1.06	0.40
6.85	0.76	0.56	0.22	9.45	1.29	1.07	0.41
6.90	0.77	0.57	0.23	9.50	1.30	1.09	0.42
6.95	0.78	0.57	0.23	9.55	1.32	1.10	0.43
7.00	0.78	0.58	0.23	9.60	1.33	1.12	0.44
7.05	0.79	0.59	0.23	9.65	1.35	1.13	0.45
7.10	0.80	0.60	0.24	9.70	1.36	1.15	0.45
7.15	0.81	0.61	0.24	9.75	1.38	1.16	0.46
7.20	0.82	0.61	0.24	9.80	1.40	1.18	0.47
7.25	0.83	0.62	0.24	9.85	1.41	1.19	0.48
7.30	0.83	0.63	0.25	9.90	1.43	1.21	0.49
7.35	0.84	0.64	0.25	9.95	1.45	1.23	0.50
7.40	0.85	0.65	0.25	10.00	1.46	1.24	0.51
7.45	0.86	0.66	0.25	10.05	1.48	1.26	0.52
7.50	0.87	0.66	0.26	10.10	1.50	1.28	0.53
7.55	0.88	0.67	0.26	10.15	1.52	1.30	0.54
7.60	0.89	0.68	0.26	10.20	1.54	1.32	0.55
7.65	0.90	0.69	0.26	10.25	1.56	1.34	0.56
7.70	0.91	0.70	0.27	10.30	1.58	1.35	0.56
7.75	0.91	0.71	0.27	10.35	1.59	1.37	0.57

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.61	1.39	0.58	13.00	6.10	5.86	1.13
10.45	1.63	1.41	0.59	13.05	6.13	5.90	1.05
10.50	1.65	1.43	0.60	13.10	6.17	5.93	1.00
10.55	1.68	1.46	0.63	13.15	6.20	5.96	0.95
10.60	1.70	1.48	0.66	13.20	6.23	5.99	0.91
10.65	1.73	1.50	0.70	13.25	6.25	6.01	0.87
10.70	1.75	1.53	0.73	13.30	6.28	6.04	0.84
10.75	1.78	1.55	0.77	13.35	6.30	6.07	0.80
10.80	1.80	1.58	0.80	13.40	6.33	6.09	0.77
10.85	1.83	1.61	0.84	13.45	6.35	6.11	0.73
10.90	1.86	1.64	0.86	13.50	6.38	6.14	0.70
10.95	1.90	1.67	0.90	13.55	6.40	6.16	0.66
11.00	1.93	1.70	0.93	13.60	6.42	6.18	0.63
11.05	1.96	1.74	1.00	13.65	6.44	6.20	0.61
11.10	2.00	1.77	1.05	13.70	6.45	6.22	0.60
11.15	2.04	1.81	1.12	13.75	6.47	6.24	0.59
11.20	2.08	1.85	1.18	13.80	6.49	6.25	0.58
11.25	2.13	1.90	1.25	13.85	6.51	6.27	0.57
11.30	2.17	1.94	1.31	13.90	6.53	6.29	0.56
11.35	2.22	1.99	1.38	13.95	6.55	6.31	0.55
11.40	2.27	2.04	1.44	14.00	6.57	6.33	0.55
11.45	2.32	2.09	1.50	14.05	6.58	6.34	0.53
11.50	2.37	2.14	1.55	14.10	6.60	6.36	0.53
11.55	2.45	2.23	1.91	14.15	6.62	6.38	0.52
11.60	2.54	2.31	2.23	14.20	6.63	6.40	0.51
11.65	2.62	2.39	2.41	14.25	6.65	6.41	0.50
11.70	2.71	2.48	2.52	14.30	6.67	6.43	0.49
11.75	2.82	2.59	2.93	14.35	6.68	6.44	0.48
11.80	2.94	2.71	3.29	14.40	6.70	6.46	0.47
11.85	3.10	2.87	3.99	14.45	6.71	6.47	0.46
11.90	3.27	3.03	4.55	14.50	6.73	6.49	0.45
11.95	3.55	3.31	6.19	14.55	6.74	6.50	0.44
12.00	3.83	3.59	7.57	14.60	6.76	6.52	0.44
12.05	4.30	4.06	10.40	14.65	6.77	6.53	0.43
12.10	4.76	4.53	**12.68**	14.70	6.78	6.54	0.42
12.15	4.93	4.69	**9.93**	14.75	6.80	6.56	0.41
12.20	5.09	4.85	6.98	14.80	6.81	6.57	0.40
12.25	5.21	4.97	5.15	14.85	6.82	6.58	0.39
12.30	5.32	5.09	4.11	14.90	6.83	6.59	0.38
12.35	5.41	5.17	3.35	14.95	6.85	6.61	0.37
12.40	5.49	5.26	2.86	15.00	6.86	6.62	0.36
12.45	5.58	5.34	2.63	15.05	6.87	6.63	0.35
12.50	5.66	5.42	2.51	15.10	6.88	6.64	0.35
12.55	5.71	5.47	2.13	15.15	6.89	6.65	0.34
12.60	5.76	5.52	1.80	15.20	6.90	6.66	0.34
12.65	5.81	5.57	1.62	15.25	6.91	6.67	0.33
12.70	5.86	5.62	1.53	15.30	6.92	6.68	0.33
12.75	5.90	5.67	1.45	15.35	6.93	6.70	0.33
12.80	5.95	5.71	1.39	15.40	6.95	6.71	0.33
12.85	5.99	5.75	1.31	15.45	6.96	6.72	0.32
12.90	6.03	5.79	1.26	15.50	6.97	6.73	0.32
12.95	6.07	5.83	1.18	15.55	6.98	6.74	0.32

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	6.99	6.75	0.32	18.20	7.42	7.18	0.19
15.65	7.00	6.76	0.31	18.25	7.43	7.19	0.19
15.70	7.01	6.77	0.31	18.30	7.43	7.19	0.19
15.75	7.02	6.78	0.31	18.35	7.44	7.20	0.19
15.80	7.03	6.79	0.31	18.40	7.44	7.21	0.19
15.85	7.04	6.80	0.30	18.45	7.45	7.21	0.19
15.90	7.05	6.81	0.30	18.50	7.46	7.22	0.19
15.95	7.06	6.82	0.30	18.55	7.46	7.22	0.19
16.00	7.07	6.83	0.30	18.60	7.47	7.23	0.19
16.05	7.08	6.84	0.30	18.65	7.48	7.24	0.19
16.10	7.09	6.85	0.29	18.70	7.48	7.24	0.19
16.15	7.10	6.86	0.29	18.75	7.49	7.25	0.19
16.20	7.11	6.87	0.29	18.80	7.49	7.26	0.19
16.25	7.12	6.88	0.29	18.85	7.50	7.26	0.19
16.30	7.12	6.89	0.28	18.90	7.51	7.27	0.19
16.35	7.13	6.89	0.28	18.95	7.51	7.27	0.19
16.40	7.14	6.90	0.28	19.00	7.52	7.28	0.18
16.45	7.15	6.91	0.28	19.05	7.53	7.29	0.18
16.50	7.16	6.92	0.27	19.10	7.53	7.29	0.18
16.55	7.17	6.93	0.27	19.15	7.54	7.30	0.18
16.60	7.18	6.94	0.27	19.20	7.54	7.30	0.18
16.65	7.19	6.95	0.27	19.25	7.55	7.31	0.18
16.70	7.20	6.96	0.26	19.30	7.56	7.32	0.18
16.75	7.20	6.97	0.26	19.35	7.56	7.32	0.18
16.80	7.21	6.97	0.26	19.40	7.57	7.33	0.18
16.85	7.22	6.98	0.26	19.45	7.57	7.33	0.18
16.90	7.23	6.99	0.25	19.50	7.58	7.34	0.18
16.95	7.24	7.00	0.25	19.55	7.58	7.35	0.18
17.00	7.25	7.01	0.25	19.60	7.59	7.35	0.18
17.05	7.25	7.02	0.25	19.65	7.60	7.36	0.18
17.10	7.26	7.02	0.25	19.70	7.60	7.36	0.18
17.15	7.27	7.03	0.24	19.75	7.61	7.37	0.18
17.20	7.28	7.04	0.24	19.80	7.61	7.37	0.18
17.25	7.29	7.05	0.24	19.85	7.62	7.38	0.18
17.30	7.29	7.05	0.23	19.90	7.63	7.39	0.17
17.35	7.30	7.06	0.23	19.95	7.63	7.39	0.17
17.40	7.31	7.07	0.23	20.00	7.64	7.40	0.17
17.45	7.32	7.08	0.23	20.05	7.64	7.40	0.17
17.50	7.32	7.08	0.23	20.10	7.65	7.41	0.17
17.55	7.33	7.09	0.22	20.15	7.65	7.41	0.17
17.60	7.34	7.10	0.22	20.20	7.66	7.42	0.17
17.65	7.35	7.11	0.22	20.25	7.67	7.43	0.17
17.70	7.35	7.11	0.22	20.30	7.67	7.43	0.17
17.75	7.36	7.12	0.21	20.35	7.68	7.44	0.17
17.80	7.37	7.13	0.21	20.40	7.68	7.44	0.17
17.85	7.37	7.13	0.21	20.45	7.69	7.45	0.17
17.90	7.38	7.14	0.21	20.50	7.69	7.45	0.17
17.95	7.39	7.15	0.20	20.55	7.70	7.46	0.17
18.00	7.39	7.15	0.20	20.60	7.70	7.46	0.17
18.05	7.40	7.16	0.20	20.65	7.71	7.47	0.17
18.10	7.41	7.17	0.20	20.70	7.71	7.48	0.16
18.15	7.41	7.17	0.20	20.75	7.72	7.48	0.16

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

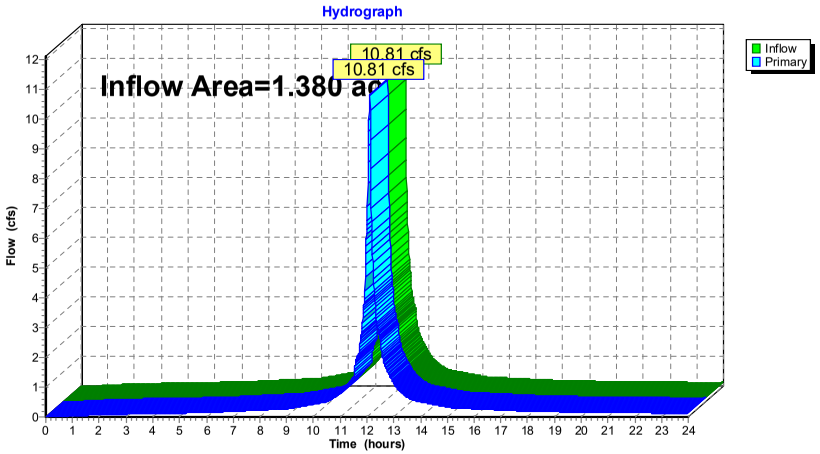
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	7.73	7.49	0.16	23.40	7.98	7.74	0.13
20.85	7.73	7.49	0.16	23.45	7.98	7.74	0.13
20.90	7.74	7.50	0.16	23.50	7.99	7.75	0.13
20.95	7.74	7.50	0.16	23.55	7.99	7.75	0.13
21.00	7.75	7.51	0.16	23.60	7.99	7.75	0.13
21.05	7.75	7.51	0.16	23.65	8.00	7.76	0.13
21.10	7.76	7.52	0.16	23.70	8.00	7.76	0.13
21.15	7.76	7.52	0.16	23.75	8.01	7.77	0.13
21.20	7.77	7.53	0.16	23.80	8.01	7.77	0.13
21.25	7.77	7.53	0.16	23.85	8.02	7.78	0.13
21.30	7.78	7.54	0.16	23.90	8.02	7.78	0.13
21.35	7.78	7.54	0.16	23.95	8.02	7.79	0.14
21.40	7.79	7.55	0.16	24.00	**8.03**	**7.79**	0.15
21.45	7.79	7.55	0.16				
21.50	7.80	7.56	0.15				
21.55	7.80	7.56	0.15				
21.60	7.81	7.57	0.15				
21.65	7.81	7.57	0.15				
21.70	7.82	7.58	0.15				
21.75	7.82	7.58	0.15				
21.80	7.83	7.59	0.15				
21.85	7.83	7.59	0.15				
21.90	7.84	7.60	0.15				
21.95	7.84	7.60	0.15				
22.00	7.85	7.61	0.15				
22.05	7.85	7.61	0.15				
22.10	7.86	7.62	0.15				
22.15	7.86	7.62	0.15				
22.20	7.87	7.63	0.15				
22.25	7.87	7.63	0.15				
22.30	7.88	7.64	0.15				
22.35	7.88	7.64	0.14				
22.40	7.89	7.65	0.14				
22.45	7.89	7.65	0.14				
22.50	7.90	7.66	0.14				
22.55	7.90	7.66	0.14				
22.60	7.91	7.67	0.14				
22.65	7.91	7.67	0.14				
22.70	7.91	7.68	0.14				
22.75	7.92	7.68	0.14				
22.80	7.92	7.68	0.14				
22.85	7.93	7.69	0.14				
22.90	7.93	7.69	0.14				
22.95	7.94	7.70	0.14				
23.00	7.94	7.70	0.14				
23.05	7.95	7.71	0.14				
23.10	7.95	7.71	0.14				
23.15	7.96	7.72	0.13				
23.20	7.96	7.72	0.13				
23.25	7.96	7.72	0.13				
23.30	7.97	7.73	0.13				
23.35	7.97	7.73	0.13				

Summary for Link P1A: P1A

Inflow Area = 1.380 ac, 80.43% Impervious, Inflow Depth > 7.45" for 25YR PROJECTED event
Inflow = 10.81 cfs @ 12.11 hrs, Volume= 0.857 af
Primary = 10.81 cfs @ 12.11 hrs, Volume= 0.857 af, Atten= 0%, Lag= 0.0 min
Routed to Link PPOI-1 : PPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link P1A: P1A



Hydrograph for Link P1A: P1A

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.08	0.00	0.08
0.05	0.00	0.00	0.00	2.65	0.09	0.00	0.09
0.10	0.00	0.00	0.00	2.70	0.09	0.00	0.09
0.15	0.00	0.00	0.00	2.75	0.09	0.00	0.09
0.20	0.00	0.00	0.00	2.80	0.09	0.00	0.09
0.25	0.00	0.00	0.00	2.85	0.09	0.00	0.09
0.30	0.00	0.00	0.00	2.90	0.09	0.00	0.09
0.35	0.00	0.00	0.00	2.95	0.09	0.00	0.09
0.40	0.00	0.00	0.00	3.00	0.09	0.00	0.09
0.45	0.00	0.00	0.00	3.05	0.09	0.00	0.09
0.50	0.00	0.00	0.00	3.10	0.09	0.00	0.09
0.55	0.00	0.00	0.00	3.15	0.10	0.00	0.10
0.60	0.01	0.00	0.01	3.20	0.10	0.00	0.10
0.65	0.01	0.00	0.01	3.25	0.10	0.00	0.10
0.70	0.01	0.00	0.01	3.30	0.10	0.00	0.10
0.75	0.02	0.00	0.02	3.35	0.10	0.00	0.10
0.80	0.02	0.00	0.02	3.40	0.10	0.00	0.10
0.85	0.02	0.00	0.02	3.45	0.10	0.00	0.10
0.90	0.03	0.00	0.03	3.50	0.10	0.00	0.10
0.95	0.03	0.00	0.03	3.55	0.10	0.00	0.10
1.00	0.03	0.00	0.03	3.60	0.10	0.00	0.10
1.05	0.03	0.00	0.03	3.65	0.10	0.00	0.10
1.10	0.04	0.00	0.04	3.70	0.10	0.00	0.10
1.15	0.04	0.00	0.04	3.75	0.11	0.00	0.11
1.20	0.04	0.00	0.04	3.80	0.11	0.00	0.11
1.25	0.04	0.00	0.04	3.85	0.11	0.00	0.11
1.30	0.05	0.00	0.05	3.90	0.11	0.00	0.11
1.35	0.05	0.00	0.05	3.95	0.11	0.00	0.11
1.40	0.05	0.00	0.05	4.00	0.11	0.00	0.11
1.45	0.05	0.00	0.05	4.05	0.11	0.00	0.11
1.50	0.05	0.00	0.05	4.10	0.11	0.00	0.11
1.55	0.06	0.00	0.06	4.15	0.11	0.00	0.11
1.60	0.06	0.00	0.06	4.20	0.11	0.00	0.11
1.65	0.06	0.00	0.06	4.25	0.11	0.00	0.11
1.70	0.06	0.00	0.06	4.30	0.11	0.00	0.11
1.75	0.06	0.00	0.06	4.35	0.12	0.00	0.12
1.80	0.06	0.00	0.06	4.40	0.12	0.00	0.12
1.85	0.07	0.00	0.07	4.45	0.12	0.00	0.12
1.90	0.07	0.00	0.07	4.50	0.12	0.00	0.12
1.95	0.07	0.00	0.07	4.55	0.12	0.00	0.12
2.00	0.07	0.00	0.07	4.60	0.12	0.00	0.12
2.05	0.07	0.00	0.07	4.65	0.12	0.00	0.12
2.10	0.07	0.00	0.07	4.70	0.12	0.00	0.12
2.15	0.07	0.00	0.07	4.75	0.12	0.00	0.12
2.20	0.07	0.00	0.07	4.80	0.12	0.00	0.12
2.25	0.08	0.00	0.08	4.85	0.12	0.00	0.12
2.30	0.08	0.00	0.08	4.90	0.12	0.00	0.12
2.35	0.08	0.00	0.08	4.95	0.13	0.00	0.13
2.40	0.08	0.00	0.08	5.00	0.13	0.00	0.13
2.45	0.08	0.00	0.08	5.05	0.13	0.00	0.13
2.50	0.08	0.00	0.08	5.10	0.13	0.00	0.13
2.55	0.08	0.00	0.08	5.15	0.13	0.00	0.13

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.13	0.00	0.13	7.80	0.22	0.00	0.22
5.25	0.13	0.00	0.13	7.85	0.22	0.00	0.22
5.30	0.13	0.00	0.13	7.90	0.22	0.00	0.22
5.35	0.13	0.00	0.13	7.95	0.23	0.00	0.23
5.40	0.13	0.00	0.13	8.00	0.23	0.00	0.23
5.45	0.13	0.00	0.13	8.05	0.23	0.00	0.23
5.50	0.13	0.00	0.13	8.10	0.23	0.00	0.23
5.55	0.13	0.00	0.13	8.15	0.23	0.00	0.23
5.60	0.14	0.00	0.14	8.20	0.24	0.00	0.24
5.65	0.14	0.00	0.14	8.25	0.24	0.00	0.24
5.70	0.14	0.00	0.14	8.30	0.24	0.00	0.24
5.75	0.14	0.00	0.14	8.35	0.24	0.00	0.24
5.80	0.14	0.00	0.14	8.40	0.25	0.00	0.25
5.85	0.14	0.00	0.14	8.45	0.25	0.00	0.25
5.90	0.14	0.00	0.14	8.50	0.25	0.00	0.25
5.95	0.14	0.00	0.14	8.55	0.25	0.00	0.25
6.00	0.14	0.00	0.14	8.60	0.25	0.00	0.25
6.05	0.14	0.00	0.14	8.65	0.26	0.00	0.26
6.10	0.15	0.00	0.15	8.70	0.26	0.00	0.26
6.15	0.15	0.00	0.15	8.75	0.26	0.00	0.26
6.20	0.15	0.00	0.15	8.80	0.26	0.00	0.26
6.25	0.15	0.00	0.15	8.85	0.27	0.00	0.27
6.30	0.15	0.00	0.15	8.90	0.27	0.00	0.27
6.35	0.16	0.00	0.16	8.95	0.27	0.00	0.27
6.40	0.16	0.00	0.16	9.00	0.27	0.00	0.27
6.45	0.16	0.00	0.16	9.05	0.28	0.00	0.28
6.50	0.16	0.00	0.16	9.10	0.29	0.00	0.29
6.55	0.16	0.00	0.16	9.15	0.30	0.00	0.30
6.60	0.17	0.00	0.17	9.20	0.30	0.00	0.30
6.65	0.17	0.00	0.17	9.25	0.31	0.00	0.31
6.70	0.17	0.00	0.17	9.30	0.32	0.00	0.32
6.75	0.17	0.00	0.17	9.35	0.33	0.00	0.33
6.80	0.17	0.00	0.17	9.40	0.33	0.00	0.33
6.85	0.18	0.00	0.18	9.45	0.34	0.00	0.34
6.90	0.18	0.00	0.18	9.50	0.35	0.00	0.35
6.95	0.18	0.00	0.18	9.55	0.36	0.00	0.36
7.00	0.18	0.00	0.18	9.60	0.36	0.00	0.36
7.05	0.19	0.00	0.19	9.65	0.37	0.00	0.37
7.10	0.19	0.00	0.19	9.70	0.38	0.00	0.38
7.15	0.19	0.00	0.19	9.75	0.39	0.00	0.39
7.20	0.19	0.00	0.19	9.80	0.39	0.00	0.39
7.25	0.19	0.00	0.19	9.85	0.40	0.00	0.40
7.30	0.20	0.00	0.20	9.90	0.41	0.00	0.41
7.35	0.20	0.00	0.20	9.95	0.42	0.00	0.42
7.40	0.20	0.00	0.20	10.00	0.43	0.00	0.43
7.45	0.20	0.00	0.20	10.05	0.44	0.00	0.44
7.50	0.21	0.00	0.21	10.10	0.44	0.00	0.44
7.55	0.21	0.00	0.21	10.15	0.45	0.00	0.45
7.60	0.21	0.00	0.21	10.20	0.46	0.00	0.46
7.65	0.21	0.00	0.21	10.25	0.47	0.00	0.47
7.70	0.21	0.00	0.21	10.30	0.47	0.00	0.47
7.75	0.22	0.00	0.22	10.35	0.49	0.00	0.49

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.49	0.00	0.49	13.00	1.14	0.00	1.14
10.45	0.50	0.00	0.50	13.05	1.05	0.00	1.05
10.50	0.51	0.00	0.51	13.10	0.99	0.00	0.99
10.55	0.54	0.00	0.54	13.15	0.93	0.00	0.93
10.60	0.56	0.00	0.56	13.20	0.90	0.00	0.90
10.65	0.59	0.00	0.59	13.25	0.85	0.00	0.85
10.70	0.61	0.00	0.61	13.30	0.82	0.00	0.82
10.75	0.65	0.00	0.65	13.35	0.77	0.00	0.77
10.80	0.67	0.00	0.67	13.40	0.74	0.00	0.74
10.85	0.71	0.00	0.71	13.45	0.70	0.00	0.70
10.90	0.73	0.00	0.73	13.50	0.67	0.00	0.67
10.95	0.77	0.00	0.77	13.55	0.63	0.00	0.63
11.00	0.79	0.00	0.79	13.60	0.61	0.00	0.61
11.05	0.85	0.00	0.85	13.65	0.58	0.00	0.58
11.10	0.89	0.00	0.89	13.70	0.57	0.00	0.57
11.15	0.96	0.00	0.96	13.75	0.56	0.00	0.56
11.20	1.00	0.00	1.00	13.80	0.55	0.00	0.55
11.25	1.07	0.00	1.07	13.85	0.54	0.00	0.54
11.30	1.11	0.00	1.11	13.90	0.53	0.00	0.53
11.35	1.18	0.00	1.18	13.95	0.52	0.00	0.52
11.40	1.22	0.00	1.22	14.00	0.51	0.00	0.51
11.45	1.28	0.00	1.28	14.05	0.50	0.00	0.50
11.50	1.32	0.00	1.32	14.10	0.49	0.00	0.49
11.55	1.69	0.00	1.69	14.15	0.48	0.00	0.48
11.60	1.91	0.00	1.91	14.20	0.47	0.00	0.47
11.65	2.05	0.00	2.05	14.25	0.46	0.00	0.46
11.70	2.12	0.00	2.12	14.30	0.45	0.00	0.45
11.75	2.54	0.00	2.54	14.35	0.44	0.00	0.44
11.80	2.80	0.00	2.80	14.40	0.44	0.00	0.44
11.85	3.47	0.00	3.47	14.45	0.43	0.00	0.43
11.90	3.86	0.00	3.86	14.50	0.42	0.00	0.42
11.95	5.47	0.00	5.47	14.55	0.41	0.00	0.41
12.00	6.43	0.00	6.43	14.60	0.40	0.00	0.40
12.05	9.12	0.00	9.12	14.65	0.39	0.00	0.39
12.10	**10.70**	0.00	**10.70**	14.70	0.39	0.00	0.39
12.15	**7.59**	0.00	**7.59**	14.75	0.38	0.00	0.38
12.20	5.65	0.00	5.65	14.80	0.37	0.00	0.37
12.25	4.43	0.00	4.43	14.85	0.36	0.00	0.36
12.30	3.88	0.00	3.88	14.90	0.35	0.00	0.35
12.35	3.28	0.00	3.28	14.95	0.34	0.00	0.34
12.40	2.94	0.00	2.94	15.00	0.34	0.00	0.34
12.45	2.74	0.00	2.74	15.05	0.33	0.00	0.33
12.50	2.62	0.00	2.62	15.10	0.32	0.00	0.32
12.55	2.18	0.00	2.18	15.15	0.32	0.00	0.32
12.60	1.92	0.00	1.92	15.20	0.31	0.00	0.31
12.65	1.75	0.00	1.75	15.25	0.31	0.00	0.31
12.70	1.65	0.00	1.65	15.30	0.31	0.00	0.31
12.75	1.54	0.00	1.54	15.35	0.30	0.00	0.30
12.80	1.46	0.00	1.46	15.40	0.30	0.00	0.30
12.85	1.36	0.00	1.36	15.45	0.30	0.00	0.30
12.90	1.29	0.00	1.29	15.50	0.30	0.00	0.30
12.95	1.20	0.00	1.20	15.55	0.29	0.00	0.29

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.29	0.00	0.29	18.20	0.18	0.00	0.18
15.65	0.29	0.00	0.29	18.25	0.18	0.00	0.18
15.70	0.29	0.00	0.29	18.30	0.18	0.00	0.18
15.75	0.28	0.00	0.28	18.35	0.18	0.00	0.18
15.80	0.28	0.00	0.28	18.40	0.18	0.00	0.18
15.85	0.28	0.00	0.28	18.45	0.18	0.00	0.18
15.90	0.28	0.00	0.28	18.50	0.17	0.00	0.17
15.95	0.27	0.00	0.27	18.55	0.17	0.00	0.17
16.00	0.27	0.00	0.27	18.60	0.17	0.00	0.17
16.05	0.27	0.00	0.27	18.65	0.17	0.00	0.17
16.10	0.27	0.00	0.27	18.70	0.17	0.00	0.17
16.15	0.27	0.00	0.27	18.75	0.17	0.00	0.17
16.20	0.26	0.00	0.26	18.80	0.17	0.00	0.17
16.25	0.26	0.00	0.26	18.85	0.17	0.00	0.17
16.30	0.26	0.00	0.26	18.90	0.17	0.00	0.17
16.35	0.26	0.00	0.26	18.95	0.17	0.00	0.17
16.40	0.26	0.00	0.26	19.00	0.17	0.00	0.17
16.45	0.25	0.00	0.25	19.05	0.17	0.00	0.17
16.50	0.25	0.00	0.25	19.10	0.17	0.00	0.17
16.55	0.25	0.00	0.25	19.15	0.17	0.00	0.17
16.60	0.25	0.00	0.25	19.20	0.17	0.00	0.17
16.65	0.24	0.00	0.24	19.25	0.17	0.00	0.17
16.70	0.24	0.00	0.24	19.30	0.17	0.00	0.17
16.75	0.24	0.00	0.24	19.35	0.16	0.00	0.16
16.80	0.24	0.00	0.24	19.40	0.16	0.00	0.16
16.85	0.24	0.00	0.24	19.45	0.16	0.00	0.16
16.90	0.23	0.00	0.23	19.50	0.16	0.00	0.16
16.95	0.23	0.00	0.23	19.55	0.16	0.00	0.16
17.00	0.23	0.00	0.23	19.60	0.16	0.00	0.16
17.05	0.23	0.00	0.23	19.65	0.16	0.00	0.16
17.10	0.23	0.00	0.23	19.70	0.16	0.00	0.16
17.15	0.22	0.00	0.22	19.75	0.16	0.00	0.16
17.20	0.22	0.00	0.22	19.80	0.16	0.00	0.16
17.25	0.22	0.00	0.22	19.85	0.16	0.00	0.16
17.30	0.22	0.00	0.22	19.90	0.16	0.00	0.16
17.35	0.21	0.00	0.21	19.95	0.16	0.00	0.16
17.40	0.21	0.00	0.21	20.00	0.16	0.00	0.16
17.45	0.21	0.00	0.21	20.05	0.16	0.00	0.16
17.50	0.21	0.00	0.21	20.10	0.16	0.00	0.16
17.55	0.20	0.00	0.20	20.15	0.16	0.00	0.16
17.60	0.20	0.00	0.20	20.20	0.16	0.00	0.16
17.65	0.20	0.00	0.20	20.25	0.16	0.00	0.16
17.70	0.20	0.00	0.20	20.30	0.15	0.00	0.15
17.75	0.20	0.00	0.20	20.35	0.15	0.00	0.15
17.80	0.19	0.00	0.19	20.40	0.15	0.00	0.15
17.85	0.19	0.00	0.19	20.45	0.15	0.00	0.15
17.90	0.19	0.00	0.19	20.50	0.15	0.00	0.15
17.95	0.19	0.00	0.19	20.55	0.15	0.00	0.15
18.00	0.19	0.00	0.19	20.60	0.15	0.00	0.15
18.05	0.18	0.00	0.18	20.65	0.15	0.00	0.15
18.10	0.18	0.00	0.18	20.70	0.15	0.00	0.15
18.15	0.18	0.00	0.18	20.75	0.15	0.00	0.15

Hydrograph for Link P1A: P1A (continued)

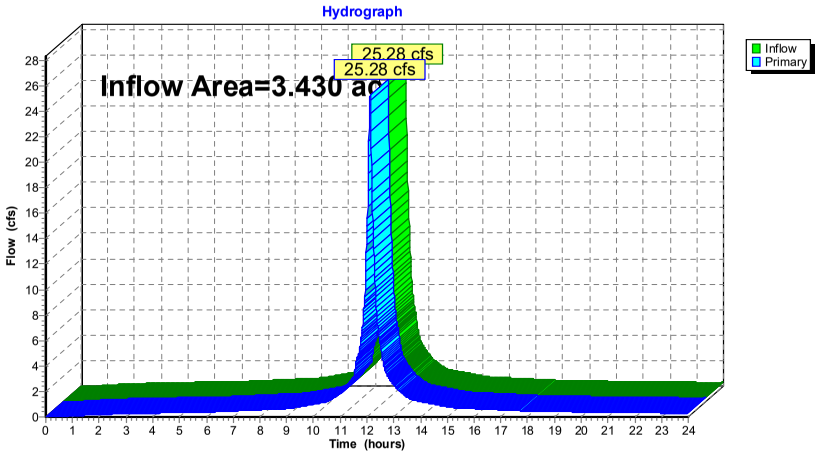
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.15	0.00	0.15	23.40	0.12	0.00	0.12
20.85	0.15	0.00	0.15	23.45	0.12	0.00	0.12
20.90	0.15	0.00	0.15	23.50	0.12	0.00	0.12
20.95	0.15	0.00	0.15	23.55	0.12	0.00	0.12
21.00	0.15	0.00	0.15	23.60	0.12	0.00	0.12
21.05	0.15	0.00	0.15	23.65	0.12	0.00	0.12
21.10	0.15	0.00	0.15	23.70	0.12	0.00	0.12
21.15	0.15	0.00	0.15	23.75	0.12	0.00	0.12
21.20	0.14	0.00	0.14	23.80	0.12	0.00	0.12
21.25	0.14	0.00	0.14	23.85	0.12	0.00	0.12
21.30	0.14	0.00	0.14	23.90	0.11	0.00	0.11
21.35	0.14	0.00	0.14	23.95	0.13	0.00	0.13
21.40	0.14	0.00	0.14	24.00	0.13	0.00	0.13
21.45	0.14	0.00	0.14				
21.50	0.14	0.00	0.14				
21.55	0.14	0.00	0.14				
21.60	0.14	0.00	0.14				
21.65	0.14	0.00	0.14				
21.70	0.14	0.00	0.14				
21.75	0.14	0.00	0.14				
21.80	0.14	0.00	0.14				
21.85	0.14	0.00	0.14				
21.90	0.14	0.00	0.14				
21.95	0.14	0.00	0.14				
22.00	0.14	0.00	0.14				
22.05	0.14	0.00	0.14				
22.10	0.13	0.00	0.13				
22.15	0.13	0.00	0.13				
22.20	0.13	0.00	0.13				
22.25	0.13	0.00	0.13				
22.30	0.13	0.00	0.13				
22.35	0.13	0.00	0.13				
22.40	0.13	0.00	0.13				
22.45	0.13	0.00	0.13				
22.50	0.13	0.00	0.13				
22.55	0.13	0.00	0.13				
22.60	0.13	0.00	0.13				
22.65	0.13	0.00	0.13				
22.70	0.13	0.00	0.13				
22.75	0.13	0.00	0.13				
22.80	0.13	0.00	0.13				
22.85	0.13	0.00	0.13				
22.90	0.13	0.00	0.13				
22.95	0.13	0.00	0.13				
23.00	0.13	0.00	0.13				
23.05	0.12	0.00	0.12				
23.10	0.12	0.00	0.12				
23.15	0.12	0.00	0.12				
23.20	0.12	0.00	0.12				
23.25	0.12	0.00	0.12				
23.30	0.12	0.00	0.12				
23.35	0.12	0.00	0.12				

Summary for Link P1B: P1B

Inflow Area = 3.430 ac, 82.22% Impervious, Inflow Depth > 7.18" for 25YR PROJECTED event
Inflow = 25.28 cfs @ 12.12 hrs, Volume= 2.053 af
Primary = 25.28 cfs @ 12.12 hrs, Volume= 2.053 af, Atten= 0%, Lag= 0.0 min
Routed to Link PPOI-1 : PPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link P1B: P1B



Hydrograph for Link P1B: P1B

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.22	0.00	0.22
0.05	0.00	0.00	0.00	2.65	0.23	0.00	0.23
0.10	0.00	0.00	0.00	2.70	0.23	0.00	0.23
0.15	0.00	0.00	0.00	2.75	0.23	0.00	0.23
0.20	0.00	0.00	0.00	2.80	0.24	0.00	0.24
0.25	0.00	0.00	0.00	2.85	0.24	0.00	0.24
0.30	0.00	0.00	0.00	2.90	0.24	0.00	0.24
0.35	0.00	0.00	0.00	2.95	0.24	0.00	0.24
0.40	0.00	0.00	0.00	3.00	0.25	0.00	0.25
0.45	0.00	0.00	0.00	3.05	0.25	0.00	0.25
0.50	0.00	0.00	0.00	3.10	0.25	0.00	0.25
0.55	0.00	0.00	0.00	3.15	0.25	0.00	0.25
0.60	0.01	0.00	0.01	3.20	0.26	0.00	0.26
0.65	0.02	0.00	0.02	3.25	0.26	0.00	0.26
0.70	0.03	0.00	0.03	3.30	0.26	0.00	0.26
0.75	0.04	0.00	0.04	3.35	0.26	0.00	0.26
0.80	0.05	0.00	0.05	3.40	0.27	0.00	0.27
0.85	0.05	0.00	0.05	3.45	0.27	0.00	0.27
0.90	0.06	0.00	0.06	3.50	0.27	0.00	0.27
0.95	0.07	0.00	0.07	3.55	0.27	0.00	0.27
1.00	0.08	0.00	0.08	3.60	0.28	0.00	0.28
1.05	0.08	0.00	0.08	3.65	0.28	0.00	0.28
1.10	0.09	0.00	0.09	3.70	0.28	0.00	0.28
1.15	0.10	0.00	0.10	3.75	0.28	0.00	0.28
1.20	0.10	0.00	0.10	3.80	0.28	0.00	0.28
1.25	0.11	0.00	0.11	3.85	0.29	0.00	0.29
1.30	0.12	0.00	0.12	3.90	0.29	0.00	0.29
1.35	0.12	0.00	0.12	3.95	0.29	0.00	0.29
1.40	0.13	0.00	0.13	4.00	0.29	0.00	0.29
1.45	0.13	0.00	0.13	4.05	0.29	0.00	0.29
1.50	0.14	0.00	0.14	4.10	0.30	0.00	0.30
1.55	0.14	0.00	0.14	4.15	0.30	0.00	0.30
1.60	0.15	0.00	0.15	4.20	0.30	0.00	0.30
1.65	0.15	0.00	0.15	4.25	0.30	0.00	0.30
1.70	0.16	0.00	0.16	4.30	0.31	0.00	0.31
1.75	0.16	0.00	0.16	4.35	0.31	0.00	0.31
1.80	0.17	0.00	0.17	4.40	0.31	0.00	0.31
1.85	0.17	0.00	0.17	4.45	0.31	0.00	0.31
1.90	0.18	0.00	0.18	4.50	0.31	0.00	0.31
1.95	0.18	0.00	0.18	4.55	0.31	0.00	0.31
2.00	0.18	0.00	0.18	4.60	0.32	0.00	0.32
2.05	0.19	0.00	0.19	4.65	0.32	0.00	0.32
2.10	0.19	0.00	0.19	4.70	0.32	0.00	0.32
2.15	0.19	0.00	0.19	4.75	0.32	0.00	0.32
2.20	0.20	0.00	0.20	4.80	0.32	0.00	0.32
2.25	0.20	0.00	0.20	4.85	0.32	0.00	0.32
2.30	0.21	0.00	0.21	4.90	0.33	0.00	0.33
2.35	0.21	0.00	0.21	4.95	0.33	0.00	0.33
2.40	0.21	0.00	0.21	5.00	0.33	0.00	0.33
2.45	0.22	0.00	0.22	5.05	0.33	0.00	0.33
2.50	0.22	0.00	0.22	5.10	0.33	0.00	0.33
2.55	0.22	0.00	0.22	5.15	0.33	0.00	0.33

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.34	0.00	0.34	7.80	0.54	0.00	0.54
5.25	0.34	0.00	0.34	7.85	0.54	0.00	0.54
5.30	0.34	0.00	0.34	7.90	0.55	0.00	0.55
5.35	0.34	0.00	0.34	7.95	0.55	0.00	0.55
5.40	0.34	0.00	0.34	8.00	0.56	0.00	0.56
5.45	0.34	0.00	0.34	8.05	0.56	0.00	0.56
5.50	0.35	0.00	0.35	8.10	0.57	0.00	0.57
5.55	0.35	0.00	0.35	8.15	0.57	0.00	0.57
5.60	0.35	0.00	0.35	8.20	0.58	0.00	0.58
5.65	0.35	0.00	0.35	8.25	0.58	0.00	0.58
5.70	0.35	0.00	0.35	8.30	0.59	0.00	0.59
5.75	0.35	0.00	0.35	8.35	0.59	0.00	0.59
5.80	0.36	0.00	0.36	8.40	0.60	0.00	0.60
5.85	0.36	0.00	0.36	8.45	0.60	0.00	0.60
5.90	0.36	0.00	0.36	8.50	0.61	0.00	0.61
5.95	0.36	0.00	0.36	8.55	0.61	0.00	0.61
6.00	0.36	0.00	0.36	8.60	0.62	0.00	0.62
6.05	0.37	0.00	0.37	8.65	0.62	0.00	0.62
6.10	0.37	0.00	0.37	8.70	0.63	0.00	0.63
6.15	0.37	0.00	0.37	8.75	0.63	0.00	0.63
6.20	0.38	0.00	0.38	8.80	0.64	0.00	0.64
6.25	0.38	0.00	0.38	8.85	0.64	0.00	0.64
6.30	0.39	0.00	0.39	8.90	0.65	0.00	0.65
6.35	0.39	0.00	0.39	8.95	0.65	0.00	0.65
6.40	0.40	0.00	0.40	9.00	0.66	0.00	0.66
6.45	0.40	0.00	0.40	9.05	0.67	0.00	0.67
6.50	0.41	0.00	0.41	9.10	0.68	0.00	0.68
6.55	0.41	0.00	0.41	9.15	0.70	0.00	0.70
6.60	0.42	0.00	0.42	9.20	0.72	0.00	0.72
6.65	0.42	0.00	0.42	9.25	0.74	0.00	0.74
6.70	0.43	0.00	0.43	9.30	0.75	0.00	0.75
6.75	0.43	0.00	0.43	9.35	0.77	0.00	0.77
6.80	0.44	0.00	0.44	9.40	0.79	0.00	0.79
6.85	0.44	0.00	0.44	9.45	0.81	0.00	0.81
6.90	0.45	0.00	0.45	9.50	0.82	0.00	0.82
6.95	0.45	0.00	0.45	9.55	0.84	0.00	0.84
7.00	0.46	0.00	0.46	9.60	0.86	0.00	0.86
7.05	0.46	0.00	0.46	9.65	0.88	0.00	0.88
7.10	0.47	0.00	0.47	9.70	0.90	0.00	0.90
7.15	0.47	0.00	0.47	9.75	0.92	0.00	0.92
7.20	0.48	0.00	0.48	9.80	0.93	0.00	0.93
7.25	0.48	0.00	0.48	9.85	0.95	0.00	0.95
7.30	0.49	0.00	0.49	9.90	0.97	0.00	0.97
7.35	0.49	0.00	0.49	9.95	0.99	0.00	0.99
7.40	0.50	0.00	0.50	10.00	1.01	0.00	1.01
7.45	0.50	0.00	0.50	10.05	1.03	0.00	1.03
7.50	0.51	0.00	0.51	10.10	1.04	0.00	1.04
7.55	0.51	0.00	0.51	10.15	1.06	0.00	1.06
7.60	0.52	0.00	0.52	10.20	1.08	0.00	1.08
7.65	0.52	0.00	0.52	10.25	1.10	0.00	1.10
7.70	0.53	0.00	0.53	10.30	1.12	0.00	1.12
7.75	0.53	0.00	0.53	10.35	1.14	0.00	1.14

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	1.16	0.00	1.16	13.00	2.53	0.00	2.53
10.45	1.18	0.00	1.18	13.05	2.39	0.00	2.39
10.50	1.20	0.00	1.20	13.10	2.25	0.00	2.25
10.55	1.24	0.00	1.24	13.15	2.13	0.00	2.13
10.60	1.30	0.00	1.30	13.20	2.04	0.00	2.04
10.65	1.36	0.00	1.36	13.25	1.96	0.00	1.96
10.70	1.43	0.00	1.43	13.30	1.88	0.00	1.88
10.75	1.50	0.00	1.50	13.35	1.80	0.00	1.80
10.80	1.57	0.00	1.57	13.40	1.72	0.00	1.72
10.85	1.64	0.00	1.64	13.45	1.65	0.00	1.65
10.90	1.71	0.00	1.71	13.50	1.57	0.00	1.57
10.95	1.79	0.00	1.79	13.55	1.50	0.00	1.50
11.00	1.86	0.00	1.86	13.60	1.42	0.00	1.42
11.05	1.96	0.00	1.96	13.65	1.37	0.00	1.37
11.10	2.08	0.00	2.08	13.70	1.34	0.00	1.34
11.15	2.21	0.00	2.21	13.75	1.31	0.00	1.31
11.20	2.34	0.00	2.34	13.80	1.28	0.00	1.28
11.25	2.47	0.00	2.47	13.85	1.26	0.00	1.26
11.30	2.60	0.00	2.60	13.90	1.24	0.00	1.24
11.35	2.74	0.00	2.74	13.95	1.22	0.00	1.22
11.40	2.88	0.00	2.88	14.00	1.20	0.00	1.20
11.45	3.00	0.00	3.00	14.05	1.18	0.00	1.18
11.50	3.11	0.00	3.11	14.10	1.16	0.00	1.16
11.55	3.62	0.00	3.62	14.15	1.14	0.00	1.14
11.60	4.30	0.00	4.30	14.20	1.12	0.00	1.12
11.65	4.73	0.00	4.73	14.25	1.10	0.00	1.10
11.70	5.02	0.00	5.02	14.30	1.08	0.00	1.08
11.75	5.67	0.00	5.67	14.35	1.06	0.00	1.06
11.80	6.48	0.00	6.48	14.40	1.04	0.00	1.04
11.85	7.61	0.00	7.61	14.45	1.02	0.00	1.02
11.90	8.88	0.00	8.88	14.50	1.01	0.00	1.01
11.95	11.41	0.00	11.41	14.55	0.99	0.00	0.99
12.00	14.51	0.00	14.51	14.60	0.96	0.00	0.96
12.05	19.12	0.00	19.12	14.65	0.94	0.00	0.94
12.10	**24.42**	0.00	**24.42**	14.70	0.92	0.00	0.92
12.15	**22.46**	0.00	**22.46**	14.75	0.91	0.00	0.91
12.20	16.84	0.00	16.84	14.80	0.89	0.00	0.89
12.25	13.19	0.00	13.19	14.85	0.87	0.00	0.87
12.30	10.54	0.00	10.54	14.90	0.85	0.00	0.85
12.35	8.58	0.00	8.58	14.95	0.83	0.00	0.83
12.40	7.07	0.00	7.07	15.00	0.81	0.00	0.81
12.45	6.26	0.00	6.26	15.05	0.79	0.00	0.79
12.50	5.76	0.00	5.76	15.10	0.77	0.00	0.77
12.55	5.06	0.00	5.06	15.15	0.75	0.00	0.75
12.60	4.27	0.00	4.27	15.20	0.74	0.00	0.74
12.65	3.81	0.00	3.81	15.25	0.74	0.00	0.74
12.70	3.52	0.00	3.52	15.30	0.73	0.00	0.73
12.75	3.30	0.00	3.30	15.35	0.72	0.00	0.72
12.80	3.12	0.00	3.12	15.40	0.72	0.00	0.72
12.85	2.96	0.00	2.96	15.45	0.71	0.00	0.71
12.90	2.81	0.00	2.81	15.50	0.71	0.00	0.71
12.95	2.67	0.00	2.67	15.55	0.70	0.00	0.70

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.70	0.00	0.70	18.20	0.43	0.00	0.43
15.65	0.69	0.00	0.69	18.25	0.43	0.00	0.43
15.70	0.69	0.00	0.69	18.30	0.43	0.00	0.43
15.75	0.68	0.00	0.68	18.35	0.42	0.00	0.42
15.80	0.68	0.00	0.68	18.40	0.42	0.00	0.42
15.85	0.67	0.00	0.67	18.45	0.42	0.00	0.42
15.90	0.67	0.00	0.67	18.50	0.42	0.00	0.42
15.95	0.66	0.00	0.66	18.55	0.42	0.00	0.42
16.00	0.66	0.00	0.66	18.60	0.42	0.00	0.42
16.05	0.65	0.00	0.65	18.65	0.42	0.00	0.42
16.10	0.65	0.00	0.65	18.70	0.42	0.00	0.42
16.15	0.64	0.00	0.64	18.75	0.41	0.00	0.41
16.20	0.64	0.00	0.64	18.80	0.41	0.00	0.41
16.25	0.63	0.00	0.63	18.85	0.41	0.00	0.41
16.30	0.62	0.00	0.62	18.90	0.41	0.00	0.41
16.35	0.62	0.00	0.62	18.95	0.41	0.00	0.41
16.40	0.61	0.00	0.61	19.00	0.41	0.00	0.41
16.45	0.61	0.00	0.61	19.05	0.41	0.00	0.41
16.50	0.60	0.00	0.60	19.10	0.40	0.00	0.40
16.55	0.60	0.00	0.60	19.15	0.40	0.00	0.40
16.60	0.59	0.00	0.59	19.20	0.40	0.00	0.40
16.65	0.59	0.00	0.59	19.25	0.40	0.00	0.40
16.70	0.58	0.00	0.58	19.30	0.40	0.00	0.40
16.75	0.58	0.00	0.58	19.35	0.40	0.00	0.40
16.80	0.57	0.00	0.57	19.40	0.40	0.00	0.40
16.85	0.57	0.00	0.57	19.45	0.40	0.00	0.40
16.90	0.56	0.00	0.56	19.50	0.39	0.00	0.39
16.95	0.56	0.00	0.56	19.55	0.39	0.00	0.39
17.00	0.55	0.00	0.55	19.60	0.39	0.00	0.39
17.05	0.55	0.00	0.55	19.65	0.39	0.00	0.39
17.10	0.54	0.00	0.54	19.70	0.39	0.00	0.39
17.15	0.54	0.00	0.54	19.75	0.39	0.00	0.39
17.20	0.53	0.00	0.53	19.80	0.39	0.00	0.39
17.25	0.52	0.00	0.52	19.85	0.39	0.00	0.39
17.30	0.52	0.00	0.52	19.90	0.38	0.00	0.38
17.35	0.51	0.00	0.51	19.95	0.38	0.00	0.38
17.40	0.51	0.00	0.51	20.00	0.38	0.00	0.38
17.45	0.50	0.00	0.50	20.05	0.38	0.00	0.38
17.50	0.50	0.00	0.50	20.10	0.38	0.00	0.38
17.55	0.49	0.00	0.49	20.15	0.38	0.00	0.38
17.60	0.49	0.00	0.49	20.20	0.38	0.00	0.38
17.65	0.48	0.00	0.48	20.25	0.37	0.00	0.37
17.70	0.48	0.00	0.48	20.30	0.37	0.00	0.37
17.75	0.47	0.00	0.47	20.35	0.37	0.00	0.37
17.80	0.47	0.00	0.47	20.40	0.37	0.00	0.37
17.85	0.46	0.00	0.46	20.45	0.37	0.00	0.37
17.90	0.46	0.00	0.46	20.50	0.37	0.00	0.37
17.95	0.45	0.00	0.45	20.55	0.37	0.00	0.37
18.00	0.45	0.00	0.45	20.60	0.37	0.00	0.37
18.05	0.44	0.00	0.44	20.65	0.37	0.00	0.37
18.10	0.44	0.00	0.44	20.70	0.36	0.00	0.36
18.15	0.43	0.00	0.43	20.75	0.36	0.00	0.36

Hydrograph for Link P1B: P1B (continued)

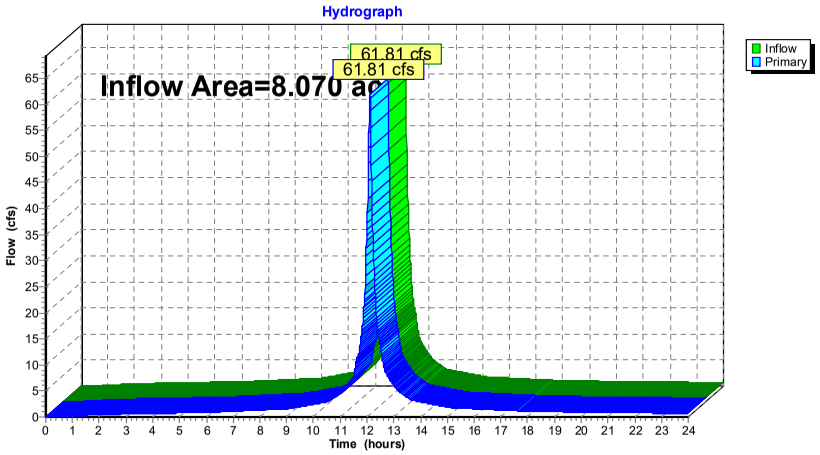
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.36	0.00	0.36	23.40	0.29	0.00	0.29
20.85	0.36	0.00	0.36	23.45	0.29	0.00	0.29
20.90	0.36	0.00	0.36	23.50	0.29	0.00	0.29
20.95	0.36	0.00	0.36	23.55	0.29	0.00	0.29
21.00	0.35	0.00	0.35	23.60	0.29	0.00	0.29
21.05	0.35	0.00	0.35	23.65	0.28	0.00	0.28
21.10	0.35	0.00	0.35	23.70	0.28	0.00	0.28
21.15	0.35	0.00	0.35	23.75	0.28	0.00	0.28
21.20	0.35	0.00	0.35	23.80	0.28	0.00	0.28
21.25	0.35	0.00	0.35	23.85	0.28	0.00	0.28
21.30	0.35	0.00	0.35	23.90	0.28	0.00	0.28
21.35	0.35	0.00	0.35	23.95	0.29	0.00	0.29
21.40	0.34	0.00	0.34	24.00	0.32	0.00	0.32
21.45	0.34	0.00	0.34				
21.50	0.34	0.00	0.34				
21.55	0.34	0.00	0.34				
21.60	0.34	0.00	0.34				
21.65	0.34	0.00	0.34				
21.70	0.34	0.00	0.34				
21.75	0.34	0.00	0.34				
21.80	0.33	0.00	0.33				
21.85	0.33	0.00	0.33				
21.90	0.33	0.00	0.33				
21.95	0.33	0.00	0.33				
22.00	0.33	0.00	0.33				
22.05	0.33	0.00	0.33				
22.10	0.33	0.00	0.33				
22.15	0.32	0.00	0.32				
22.20	0.32	0.00	0.32				
22.25	0.32	0.00	0.32				
22.30	0.32	0.00	0.32				
22.35	0.32	0.00	0.32				
22.40	0.32	0.00	0.32				
22.45	0.32	0.00	0.32				
22.50	0.31	0.00	0.31				
22.55	0.31	0.00	0.31				
22.60	0.31	0.00	0.31				
22.65	0.31	0.00	0.31				
22.70	0.31	0.00	0.31				
22.75	0.31	0.00	0.31				
22.80	0.31	0.00	0.31				
22.85	0.31	0.00	0.31				
22.90	0.30	0.00	0.30				
22.95	0.30	0.00	0.30				
23.00	0.30	0.00	0.30				
23.05	0.30	0.00	0.30				
23.10	0.30	0.00	0.30				
23.15	0.30	0.00	0.30				
23.20	0.30	0.00	0.30				
23.25	0.29	0.00	0.29				
23.30	0.29	0.00	0.29				
23.35	0.29	0.00	0.29				

Summary for Link PPOI-1: PPOI-1

Inflow Area = 8.070 ac, 81.04% Impervious, Inflow Depth > 7.34" for 25YR PROJECTED event
Inflow = 61.81 cfs @ 12.11 hrs, Volume= 4.934 af
Primary = 61.81 cfs @ 12.11 hrs, Volume= 4.934 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link PPOI-1: PPOI-1



Hydrograph for Link PPOI-1: PPOI-1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.50	0.00	0.50
0.05	0.00	0.00	0.00	2.65	0.51	0.00	0.51
0.10	0.00	0.00	0.00	2.70	0.52	0.00	0.52
0.15	0.00	0.00	0.00	2.75	0.53	0.00	0.53
0.20	0.00	0.00	0.00	2.80	0.53	0.00	0.53
0.25	0.00	0.00	0.00	2.85	0.54	0.00	0.54
0.30	0.00	0.00	0.00	2.90	0.54	0.00	0.54
0.35	0.00	0.00	0.00	2.95	0.55	0.00	0.55
0.40	0.00	0.00	0.00	3.00	0.55	0.00	0.55
0.45	0.00	0.00	0.00	3.05	0.56	0.00	0.56
0.50	0.00	0.00	0.00	3.10	0.57	0.00	0.57
0.55	0.01	0.00	0.01	3.15	0.57	0.00	0.57
0.60	0.03	0.00	0.03	3.20	0.58	0.00	0.58
0.65	0.05	0.00	0.05	3.25	0.58	0.00	0.58
0.70	0.07	0.00	0.07	3.30	0.59	0.00	0.59
0.75	0.09	0.00	0.09	3.35	0.59	0.00	0.59
0.80	0.11	0.00	0.11	3.40	0.60	0.00	0.60
0.85	0.12	0.00	0.12	3.45	0.61	0.00	0.61
0.90	0.14	0.00	0.14	3.50	0.61	0.00	0.61
0.95	0.16	0.00	0.16	3.55	0.62	0.00	0.62
1.00	0.18	0.00	0.18	3.60	0.62	0.00	0.62
1.05	0.19	0.00	0.19	3.65	0.62	0.00	0.62
1.10	0.21	0.00	0.21	3.70	0.63	0.00	0.63
1.15	0.22	0.00	0.22	3.75	0.63	0.00	0.63
1.20	0.24	0.00	0.24	3.80	0.64	0.00	0.64
1.25	0.25	0.00	0.25	3.85	0.64	0.00	0.64
1.30	0.26	0.00	0.26	3.90	0.65	0.00	0.65
1.35	0.28	0.00	0.28	3.95	0.65	0.00	0.65
1.40	0.29	0.00	0.29	4.00	0.66	0.00	0.66
1.45	0.30	0.00	0.30	4.05	0.66	0.00	0.66
1.50	0.32	0.00	0.32	4.10	0.67	0.00	0.67
1.55	0.33	0.00	0.33	4.15	0.67	0.00	0.67
1.60	0.34	0.00	0.34	4.20	0.68	0.00	0.68
1.65	0.35	0.00	0.35	4.25	0.68	0.00	0.68
1.70	0.36	0.00	0.36	4.30	0.69	0.00	0.69
1.75	0.37	0.00	0.37	4.35	0.69	0.00	0.69
1.80	0.38	0.00	0.38	4.40	0.70	0.00	0.70
1.85	0.39	0.00	0.39	4.45	0.70	0.00	0.70
1.90	0.40	0.00	0.40	4.50	0.71	0.00	0.71
1.95	0.41	0.00	0.41	4.55	0.71	0.00	0.71
2.00	0.41	0.00	0.41	4.60	0.72	0.00	0.72
2.05	0.42	0.00	0.42	4.65	0.72	0.00	0.72
2.10	0.43	0.00	0.43	4.70	0.73	0.00	0.73
2.15	0.44	0.00	0.44	4.75	0.73	0.00	0.73
2.20	0.45	0.00	0.45	4.80	0.73	0.00	0.73
2.25	0.46	0.00	0.46	4.85	0.74	0.00	0.74
2.30	0.46	0.00	0.46	4.90	0.74	0.00	0.74
2.35	0.47	0.00	0.47	4.95	0.75	0.00	0.75
2.40	0.48	0.00	0.48	5.00	0.75	0.00	0.75
2.45	0.48	0.00	0.48	5.05	0.76	0.00	0.76
2.50	0.49	0.00	0.49	5.10	0.76	0.00	0.76
2.55	0.50	0.00	0.50	5.15	0.77	0.00	0.77

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.77	0.00	0.77	7.80	1.27	0.00	1.27
5.25	0.77	0.00	0.77	7.85	1.29	0.00	1.29
5.30	0.78	0.00	0.78	7.90	1.30	0.00	1.30
5.35	0.78	0.00	0.78	7.95	1.31	0.00	1.31
5.40	0.79	0.00	0.79	8.00	1.33	0.00	1.33
5.45	0.79	0.00	0.79	8.05	1.34	0.00	1.34
5.50	0.80	0.00	0.80	8.10	1.35	0.00	1.35
5.55	0.80	0.00	0.80	8.15	1.36	0.00	1.36
5.60	0.81	0.00	0.81	8.20	1.38	0.00	1.38
5.65	0.81	0.00	0.81	8.25	1.39	0.00	1.39
5.70	0.81	0.00	0.81	8.30	1.40	0.00	1.40
5.75	0.82	0.00	0.82	8.35	1.41	0.00	1.41
5.80	0.82	0.00	0.82	8.40	1.42	0.00	1.42
5.85	0.83	0.00	0.83	8.45	1.44	0.00	1.44
5.90	0.83	0.00	0.83	8.50	1.45	0.00	1.45
5.95	0.83	0.00	0.83	8.55	1.46	0.00	1.46
6.00	0.84	0.00	0.84	8.60	1.48	0.00	1.48
6.05	0.85	0.00	0.85	8.65	1.49	0.00	1.49
6.10	0.86	0.00	0.86	8.70	1.50	0.00	1.50
6.15	0.87	0.00	0.87	8.75	1.52	0.00	1.52
6.20	0.88	0.00	0.88	8.80	1.53	0.00	1.53
6.25	0.89	0.00	0.89	8.85	1.54	0.00	1.54
6.30	0.90	0.00	0.90	8.90	1.55	0.00	1.55
6.35	0.92	0.00	0.92	8.95	1.57	0.00	1.57
6.40	0.93	0.00	0.93	9.00	1.58	0.00	1.58
6.45	0.94	0.00	0.94	9.05	1.61	0.00	1.61
6.50	0.95	0.00	0.95	9.10	1.64	0.00	1.64
6.55	0.97	0.00	0.97	9.15	1.69	0.00	1.69
6.60	0.98	0.00	0.98	9.20	1.73	0.00	1.73
6.65	0.99	0.00	0.99	9.25	1.78	0.00	1.78
6.70	1.00	0.00	1.00	9.30	1.82	0.00	1.82
6.75	1.01	0.00	1.01	9.35	1.86	0.00	1.86
6.80	1.02	0.00	1.02	9.40	1.90	0.00	1.90
6.85	1.04	0.00	1.04	9.45	1.95	0.00	1.95
6.90	1.05	0.00	1.05	9.50	1.99	0.00	1.99
6.95	1.06	0.00	1.06	9.55	2.04	0.00	2.04
7.00	1.08	0.00	1.08	9.60	2.08	0.00	2.08
7.05	1.09	0.00	1.09	9.65	2.13	0.00	2.13
7.10	1.10	0.00	1.10	9.70	2.17	0.00	2.17
7.15	1.11	0.00	1.11	9.75	2.22	0.00	2.22
7.20	1.13	0.00	1.13	9.80	2.26	0.00	2.26
7.25	1.14	0.00	1.14	9.85	2.31	0.00	2.31
7.30	1.15	0.00	1.15	9.90	2.36	0.00	2.36
7.35	1.16	0.00	1.16	9.95	2.40	0.00	2.40
7.40	1.17	0.00	1.17	10.00	2.44	0.00	2.44
7.45	1.19	0.00	1.19	10.05	2.49	0.00	2.49
7.50	1.20	0.00	1.20	10.10	2.54	0.00	2.54
7.55	1.21	0.00	1.21	10.15	2.59	0.00	2.59
7.60	1.22	0.00	1.22	10.20	2.63	0.00	2.63
7.65	1.24	0.00	1.24	10.25	2.68	0.00	2.68
7.70	1.25	0.00	1.25	10.30	2.72	0.00	2.72
7.75	1.26	0.00	1.26	10.35	2.77	0.00	2.77

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	2.82	0.00	2.82	13.00	6.13	0.00	6.13
10.45	2.87	0.00	2.87	13.05	5.75	0.00	5.75
10.50	2.91	0.00	2.91	13.10	5.42	0.00	5.42
10.55	3.04	0.00	3.04	13.15	5.14	0.00	5.14
10.60	3.17	0.00	3.17	13.20	4.93	0.00	4.93
10.65	3.34	0.00	3.34	13.25	4.71	0.00	4.71
10.70	3.49	0.00	3.49	13.30	4.53	0.00	4.53
10.75	3.68	0.00	3.68	13.35	4.32	0.00	4.32
10.80	3.84	0.00	3.84	13.40	4.15	0.00	4.15
10.85	4.02	0.00	4.02	13.45	3.95	0.00	3.95
10.90	4.18	0.00	4.18	13.50	3.77	0.00	3.77
10.95	4.37	0.00	4.37	13.55	3.58	0.00	3.58
11.00	4.53	0.00	4.53	13.60	3.41	0.00	3.41
11.05	4.82	0.00	4.82	13.65	3.29	0.00	3.29
11.10	5.08	0.00	5.08	13.70	3.21	0.00	3.21
11.15	5.42	0.00	5.42	13.75	3.14	0.00	3.14
11.20	5.71	0.00	5.71	13.80	3.09	0.00	3.09
11.25	6.06	0.00	6.06	13.85	3.03	0.00	3.03
11.30	6.36	0.00	6.36	13.90	2.99	0.00	2.99
11.35	6.72	0.00	6.72	13.95	2.93	0.00	2.93
11.40	7.02	0.00	7.02	14.00	2.89	0.00	2.89
11.45	7.34	0.00	7.34	14.05	2.83	0.00	2.83
11.50	7.59	0.00	7.59	14.10	2.79	0.00	2.79
11.55	9.08	0.00	9.08	14.15	2.74	0.00	2.74
11.60	10.66	0.00	10.66	14.20	2.70	0.00	2.70
11.65	11.63	0.00	11.63	14.25	2.64	0.00	2.64
11.70	12.26	0.00	12.26	14.30	2.60	0.00	2.60
11.75	14.09	0.00	14.09	14.35	2.55	0.00	2.55
11.80	15.94	0.00	15.94	14.40	2.50	0.00	2.50
11.85	19.03	0.00	19.03	14.45	2.45	0.00	2.45
11.90	21.91	0.00	21.91	14.50	2.41	0.00	2.41
11.95	29.03	0.00	29.03	14.55	2.36	0.00	2.36
12.00	36.07	0.00	36.07	14.60	2.31	0.00	2.31
12.05	48.66	0.00	48.66	14.65	2.26	0.00	2.26
12.10	**60.58**	0.00	**60.58**	14.70	2.22	0.00	2.22
12.15	**51.74**	0.00	**51.74**	14.75	2.17	0.00	2.17
12.20	38.43	0.00	38.43	14.80	2.12	0.00	2.12
12.25	29.84	0.00	29.84	14.85	2.07	0.00	2.07
12.30	24.22	0.00	24.22	14.90	2.03	0.00	2.03
12.35	19.85	0.00	19.85	14.95	1.97	0.00	1.97
12.40	16.70	0.00	16.70	15.00	1.93	0.00	1.93
12.45	14.97	0.00	14.97	15.05	1.88	0.00	1.88
12.50	13.97	0.00	13.97	15.10	1.84	0.00	1.84
12.55	12.06	0.00	12.06	15.15	1.81	0.00	1.81
12.60	10.26	0.00	10.26	15.20	1.79	0.00	1.79
12.65	9.21	0.00	9.21	15.25	1.77	0.00	1.77
12.70	8.57	0.00	8.57	15.30	1.75	0.00	1.75
12.75	8.03	0.00	8.03	15.35	1.74	0.00	1.74
12.80	7.62	0.00	7.62	15.40	1.73	0.00	1.73
12.85	7.20	0.00	7.20	15.45	1.71	0.00	1.71
12.90	6.85	0.00	6.85	15.50	1.70	0.00	1.70
12.95	6.46	0.00	6.46	15.55	1.69	0.00	1.69

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	1.68	0.00	1.68	18.20	1.03	0.00	1.03
15.65	1.66	0.00	1.66	18.25	1.02	0.00	1.02
15.70	1.65	0.00	1.65	18.30	1.02	0.00	1.02
15.75	1.63	0.00	1.63	18.35	1.02	0.00	1.02
15.80	1.62	0.00	1.62	18.40	1.01	0.00	1.01
15.85	1.61	0.00	1.61	18.45	1.01	0.00	1.01
15.90	1.60	0.00	1.60	18.50	1.01	0.00	1.01
15.95	1.58	0.00	1.58	18.55	1.00	0.00	1.00
16.00	1.57	0.00	1.57	18.60	1.00	0.00	1.00
16.05	1.56	0.00	1.56	18.65	1.00	0.00	1.00
16.10	1.55	0.00	1.55	18.70	0.99	0.00	0.99
16.15	1.54	0.00	1.54	18.75	0.99	0.00	0.99
16.20	1.52	0.00	1.52	18.80	0.99	0.00	0.99
16.25	1.51	0.00	1.51	18.85	0.98	0.00	0.98
16.30	1.50	0.00	1.50	18.90	0.98	0.00	0.98
16.35	1.48	0.00	1.48	18.95	0.98	0.00	0.98
16.40	1.47	0.00	1.47	19.00	0.97	0.00	0.97
16.45	1.46	0.00	1.46	19.05	0.97	0.00	0.97
16.50	1.44	0.00	1.44	19.10	0.97	0.00	0.97
16.55	1.43	0.00	1.43	19.15	0.97	0.00	0.97
16.60	1.42	0.00	1.42	19.20	0.96	0.00	0.96
16.65	1.41	0.00	1.41	19.25	0.96	0.00	0.96
16.70	1.40	0.00	1.40	19.30	0.96	0.00	0.96
16.75	1.38	0.00	1.38	19.35	0.95	0.00	0.95
16.80	1.37	0.00	1.37	19.40	0.95	0.00	0.95
16.85	1.36	0.00	1.36	19.45	0.95	0.00	0.95
16.90	1.35	0.00	1.35	19.50	0.94	0.00	0.94
16.95	1.33	0.00	1.33	19.55	0.94	0.00	0.94
17.00	1.32	0.00	1.32	19.60	0.94	0.00	0.94
17.05	1.31	0.00	1.31	19.65	0.93	0.00	0.93
17.10	1.30	0.00	1.30	19.70	0.93	0.00	0.93
17.15	1.28	0.00	1.28	19.75	0.93	0.00	0.93
17.20	1.27	0.00	1.27	19.80	0.93	0.00	0.93
17.25	1.26	0.00	1.26	19.85	0.92	0.00	0.92
17.30	1.24	0.00	1.24	19.90	0.92	0.00	0.92
17.35	1.23	0.00	1.23	19.95	0.92	0.00	0.92
17.40	1.22	0.00	1.22	20.00	0.91	0.00	0.91
17.45	1.21	0.00	1.21	20.05	0.91	0.00	0.91
17.50	1.19	0.00	1.19	20.10	0.91	0.00	0.91
17.55	1.18	0.00	1.18	20.15	0.90	0.00	0.90
17.60	1.17	0.00	1.17	20.20	0.90	0.00	0.90
17.65	1.16	0.00	1.16	20.25	0.90	0.00	0.90
17.70	1.14	0.00	1.14	20.30	0.89	0.00	0.89
17.75	1.13	0.00	1.13	20.35	0.89	0.00	0.89
17.80	1.12	0.00	1.12	20.40	0.89	0.00	0.89
17.85	1.10	0.00	1.10	20.45	0.88	0.00	0.88
17.90	1.09	0.00	1.09	20.50	0.88	0.00	0.88
17.95	1.08	0.00	1.08	20.55	0.88	0.00	0.88
18.00	1.07	0.00	1.07	20.60	0.88	0.00	0.88
18.05	1.05	0.00	1.05	20.65	0.87	0.00	0.87
18.10	1.04	0.00	1.04	20.70	0.87	0.00	0.87
18.15	1.03	0.00	1.03	20.75	0.86	0.00	0.86

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.86	0.00	0.86	23.40	0.70	0.00	0.70
20.85	0.86	0.00	0.86	23.45	0.69	0.00	0.69
20.90	0.85	0.00	0.85	23.50	0.69	0.00	0.69
20.95	0.85	0.00	0.85	23.55	0.69	0.00	0.69
21.00	0.85	0.00	0.85	23.60	0.68	0.00	0.68
21.05	0.84	0.00	0.84	23.65	0.68	0.00	0.68
21.10	0.84	0.00	0.84	23.70	0.68	0.00	0.68
21.15	0.84	0.00	0.84	23.75	0.68	0.00	0.68
21.20	0.83	0.00	0.83	23.80	0.67	0.00	0.67
21.25	0.83	0.00	0.83	23.85	0.67	0.00	0.67
21.30	0.83	0.00	0.83	23.90	0.66	0.00	0.66
21.35	0.83	0.00	0.83	23.95	0.71	0.00	0.71
21.40	0.82	0.00	0.82	24.00	0.76	0.00	0.76
21.45	0.82	0.00	0.82				
21.50	0.82	0.00	0.82				
21.55	0.81	0.00	0.81				
21.60	0.81	0.00	0.81				
21.65	0.81	0.00	0.81				
21.70	0.80	0.00	0.80				
21.75	0.80	0.00	0.80				
21.80	0.80	0.00	0.80				
21.85	0.80	0.00	0.80				
21.90	0.79	0.00	0.79				
21.95	0.79	0.00	0.79				
22.00	0.78	0.00	0.78				
22.05	0.78	0.00	0.78				
22.10	0.78	0.00	0.78				
22.15	0.78	0.00	0.78				
22.20	0.78	0.00	0.78				
22.25	0.77	0.00	0.77				
22.30	0.77	0.00	0.77				
22.35	0.76	0.00	0.76				
22.40	0.76	0.00	0.76				
22.45	0.76	0.00	0.76				
22.50	0.75	0.00	0.75				
22.55	0.75	0.00	0.75				
22.60	0.75	0.00	0.75				
22.65	0.75	0.00	0.75				
22.70	0.74	0.00	0.74				
22.75	0.74	0.00	0.74				
22.80	0.73	0.00	0.73				
22.85	0.73	0.00	0.73				
22.90	0.73	0.00	0.73				
22.95	0.73	0.00	0.73				
23.00	0.72	0.00	0.72				
23.05	0.72	0.00	0.72				
23.10	0.72	0.00	0.72				
23.15	0.71	0.00	0.71				
23.20	0.71	0.00	0.71				
23.25	0.70	0.00	0.70				
23.30	0.70	0.00	0.70				
23.35	0.70	0.00	0.70				

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment PDA 4 Perv: PDA4 PERV Runoff Area=0.110 ac 0.00% Impervious Runoff Depth>9.82"
Flow Length=117' Tc=1.2 min CN=84 Runoff=1.45 cfs 0.090 af

Subcatchment PDA1AIMP: PDA1A IMP Runoff Area=1.110 ac 100.00% Impervious Runoff Depth>11.59"
Flow Length=332' Tc=2.2 min CN=98 Runoff=14.74 cfs 1.072 af

Subcatchment PDA1APERV: PDA-1APERV Runoff Area=0.270 ac 0.00% Impervious Runoff Depth>9.78"
Flow Length=518' Tc=13.5 min CN=84 Runoff=1.83 cfs 0.220 af

Subcatchment PDA1B IMP: PDA1B IMP Runoff Area=2.680 ac 93.66% Impervious Runoff Depth>11.58"
Flow Length=618' Tc=4.1 min CN=98 Runoff=31.32 cfs 2.587 af

Subcatchment PDA1B PERV: PDA-1B PERV Runoff Area=0.440 ac 0.00% Impervious Runoff Depth>6.11"
Flow Length=761' Tc=5.4 min CN=58 Runoff=2.94 cfs 0.224 af

Subcatchment PDA2 IMP: PDA2 IMP Runoff Area=0.310 ac 100.00% Impervious Runoff Depth>11.59"
Flow Length=351' Tc=2.2 min CN=98 Runoff=4.12 cfs 0.299 af

Subcatchment PDA3 IMP: PDA3 IMP Runoff Area=1.110 ac 100.00% Impervious Runoff Depth>11.58"
Flow Length=804' Tc=4.7 min CN=98 Runoff=12.44 cfs 1.071 af

Subcatchment PDA3 PERV: PDA3 PERV Runoff Area=0.540 ac 0.00% Impervious Runoff Depth>9.81"
Flow Length=131' Tc=3.4 min CN=84 Runoff=6.21 cfs 0.442 af

Subcatchment PDA4 IMP: PDA4 IMP Runoff Area=1.500 ac 100.00% Impervious Runoff Depth>11.59"
Flow Length=388' Tc=2.9 min CN=98 Runoff=18.99 cfs 1.449 af

Link P1A: P1A Inflow=16.05 cfs 1.292 af
Primary=16.05 cfs 1.292 af

Link P1B: P1B Inflow=38.08 cfs 3.111 af
Primary=38.08 cfs 3.111 af

Link PPOI-1: PPOI-1 Inflow=92.48 cfs 7.454 af
Primary=92.48 cfs 7.454 af

Total Runoff Area = 8.070 ac Runoff Volume = 7.454 af Average Runoff Depth = 11.08"
18.96% Pervious = 1.530 ac 81.04% Impervious = 6.540 ac

Summary for Subcatchment PDA 4 Perv: PDA4 PERV

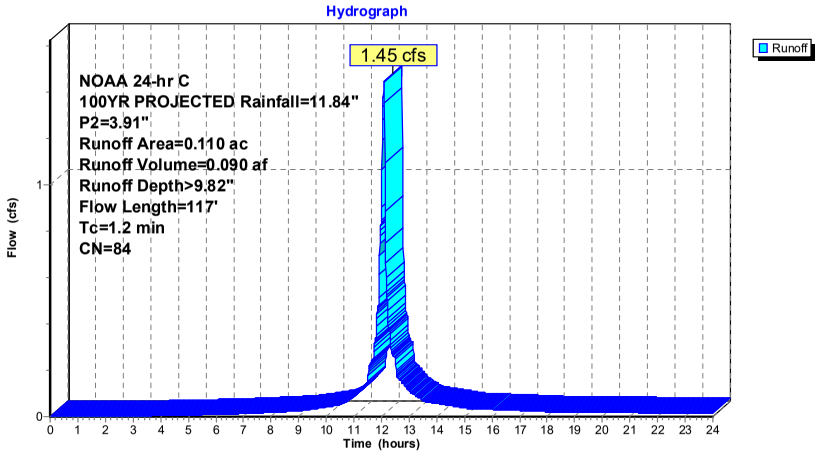
Runoff = 1.45 cfs @ 12.10 hrs, Volume= 0.090 af, Depth> 9.82"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"

Area (ac)	CN	Description
* 0.110	84	>75% Grass cover, Good, HSG D
0.110		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.3	5	0.3300	0.32		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
0.6	64	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.3	48	0.0040	2.89	3.54	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
1.2	117	Total			

Subcatchment PDA 4 Perv: PDA4 PERV



Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.36	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.36	0.00	0.00
0.10	0.02	0.00	0.00	2.70	0.37	0.00	0.00
0.15	0.02	0.00	0.00	2.75	0.38	0.00	0.00
0.20	0.03	0.00	0.00	2.80	0.39	0.00	0.00
0.25	0.03	0.00	0.00	2.85	0.39	0.00	0.00
0.30	0.04	0.00	0.00	2.90	0.40	0.00	0.00
0.35	0.05	0.00	0.00	2.95	0.41	0.00	0.00
0.40	0.05	0.00	0.00	3.00	0.42	0.00	0.00
0.45	0.06	0.00	0.00	3.05	0.43	0.00	0.00
0.50	0.06	0.00	0.00	3.10	0.43	0.00	0.00
0.55	0.07	0.00	0.00	3.15	0.44	0.00	0.00
0.60	0.08	0.00	0.00	3.20	0.45	0.00	0.00
0.65	0.08	0.00	0.00	3.25	0.46	0.00	0.00
0.70	0.09	0.00	0.00	3.30	0.46	0.00	0.00
0.75	0.10	0.00	0.00	3.35	0.47	0.00	0.00
0.80	0.10	0.00	0.00	3.40	0.48	0.00	0.00
0.85	0.11	0.00	0.00	3.45	0.49	0.01	0.00
0.90	0.12	0.00	0.00	3.50	0.50	0.01	0.00
0.95	0.12	0.00	0.00	3.55	0.51	0.01	0.00
1.00	0.13	0.00	0.00	3.60	0.51	0.01	0.00
1.05	0.14	0.00	0.00	3.65	0.52	0.01	0.00
1.10	0.14	0.00	0.00	3.70	0.53	0.01	0.00
1.15	0.15	0.00	0.00	3.75	0.54	0.01	0.00
1.20	0.16	0.00	0.00	3.80	0.55	0.01	0.00
1.25	0.16	0.00	0.00	3.85	0.55	0.01	0.00
1.30	0.17	0.00	0.00	3.90	0.56	0.02	0.00
1.35	0.18	0.00	0.00	3.95	0.57	0.02	0.00
1.40	0.18	0.00	0.00	4.00	0.58	0.02	0.00
1.45	0.19	0.00	0.00	4.05	0.59	0.02	0.00
1.50	0.20	0.00	0.00	4.10	0.60	0.02	0.00
1.55	0.20	0.00	0.00	4.15	0.60	0.02	0.00
1.60	0.21	0.00	0.00	4.20	0.61	0.03	0.00
1.65	0.22	0.00	0.00	4.25	0.62	0.03	0.00
1.70	0.22	0.00	0.00	4.30	0.63	0.03	0.00
1.75	0.23	0.00	0.00	4.35	0.64	0.03	0.00
1.80	0.24	0.00	0.00	4.40	0.65	0.03	0.00
1.85	0.25	0.00	0.00	4.45	0.66	0.03	0.00
1.90	0.25	0.00	0.00	4.50	0.66	0.04	0.00
1.95	0.26	0.00	0.00	4.55	0.67	0.04	0.00
2.00	0.27	0.00	0.00	4.60	0.68	0.04	0.00
2.05	0.27	0.00	0.00	4.65	0.69	0.04	0.00
2.10	0.28	0.00	0.00	4.70	0.70	0.05	0.01
2.15	0.29	0.00	0.00	4.75	0.71	0.05	0.01
2.20	0.30	0.00	0.00	4.80	0.72	0.05	0.01
2.25	0.30	0.00	0.00	4.85	0.73	0.05	0.01
2.30	0.31	0.00	0.00	4.90	0.74	0.06	0.01
2.35	0.32	0.00	0.00	4.95	0.74	0.06	0.01
2.40	0.33	0.00	0.00	5.00	0.75	0.06	0.01
2.45	0.33	0.00	0.00	5.05	0.76	0.06	0.01
2.50	0.34	0.00	0.00	5.10	0.77	0.07	0.01
2.55	0.35	0.00	0.00	5.15	0.78	0.07	0.01

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.79	0.07	0.01	7.80	1.36	0.33	0.02
5.25	0.80	0.07	0.01	7.85	1.38	0.34	0.02
5.30	0.81	0.08	0.01	7.90	1.39	0.35	0.02
5.35	0.82	0.08	0.01	7.95	1.40	0.36	0.02
5.40	0.83	0.08	0.01	8.00	1.42	0.37	0.02
5.45	0.83	0.09	0.01	8.05	1.43	0.37	0.02
5.50	0.84	0.09	0.01	8.10	1.45	0.38	0.02
5.55	0.85	0.09	0.01	8.15	1.46	0.39	0.02
5.60	0.86	0.10	0.01	8.20	1.48	0.40	0.02
5.65	0.87	0.10	0.01	8.25	1.49	0.41	0.02
5.70	0.88	0.10	0.01	8.30	1.51	0.42	0.02
5.75	0.89	0.11	0.01	8.35	1.52	0.43	0.02
5.80	0.90	0.11	0.01	8.40	1.54	0.44	0.02
5.85	0.91	0.11	0.01	8.45	1.55	0.45	0.02
5.90	0.92	0.12	0.01	8.50	1.57	0.46	0.02
5.95	0.93	0.12	0.01	8.55	1.58	0.47	0.02
6.00	0.94	0.13	0.01	8.60	1.60	0.48	0.02
6.05	0.95	0.13	0.01	8.65	1.62	0.49	0.02
6.10	0.96	0.13	0.01	8.70	1.63	0.50	0.02
6.15	0.97	0.14	0.01	8.75	1.65	0.51	0.02
6.20	0.98	0.14	0.01	8.80	1.66	0.52	0.02
6.25	0.99	0.15	0.01	8.85	1.68	0.53	0.02
6.30	1.00	0.15	0.01	8.90	1.70	0.54	0.02
6.35	1.01	0.16	0.01	8.95	1.71	0.55	0.02
6.40	1.02	0.16	0.01	9.00	1.73	0.56	0.02
6.45	1.03	0.16	0.01	9.05	1.75	0.57	0.03
6.50	1.04	0.17	0.01	9.10	1.76	0.58	0.03
6.55	1.05	0.17	0.01	9.15	1.78	0.59	0.03
6.60	1.06	0.18	0.01	9.20	1.80	0.61	0.03
6.65	1.07	0.18	0.01	9.25	1.82	0.62	0.03
6.70	1.09	0.19	0.01	9.30	1.84	0.63	0.03
6.75	1.10	0.20	0.01	9.35	1.86	0.65	0.03
6.80	1.11	0.20	0.01	9.40	1.88	0.66	0.03
6.85	1.12	0.21	0.01	9.45	1.90	0.67	0.03
6.90	1.13	0.21	0.01	9.50	1.92	0.69	0.03
6.95	1.14	0.22	0.01	9.55	1.94	0.70	0.03
7.00	1.15	0.22	0.01	9.60	1.97	0.72	0.03
7.05	1.17	0.23	0.01	9.65	1.99	0.74	0.04
7.10	1.18	0.24	0.01	9.70	2.01	0.75	0.04
7.15	1.19	0.24	0.01	9.75	2.03	0.77	0.04
7.20	1.20	0.25	0.01	9.80	2.06	0.79	0.04
7.25	1.22	0.25	0.01	9.85	2.08	0.80	0.04
7.30	1.23	0.26	0.01	9.90	2.11	0.82	0.04
7.35	1.24	0.27	0.01	9.95	2.13	0.84	0.04
7.40	1.25	0.27	0.02	10.00	2.16	0.86	0.04
7.45	1.27	0.28	0.02	10.05	2.19	0.88	0.04
7.50	1.28	0.29	0.02	10.10	2.21	0.90	0.04
7.55	1.29	0.30	0.02	10.15	2.24	0.92	0.04
7.60	1.31	0.30	0.02	10.20	2.27	0.94	0.05
7.65	1.32	0.31	0.02	10.25	2.29	0.96	0.05
7.70	1.33	0.32	0.02	10.30	2.32	0.98	0.05
7.75	1.35	0.33	0.02	10.35	2.35	1.00	0.05

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	2.38	1.02	0.05	13.00	9.00	7.06	0.11
10.45	2.41	1.05	0.05	13.05	9.05	7.10	0.10
10.50	2.44	1.07	0.05	13.10	9.09	7.15	0.10
10.55	2.47	1.10	0.06	13.15	9.14	7.19	0.09
10.60	2.51	1.12	0.06	13.20	9.18	7.23	0.09
10.65	2.54	1.15	0.06	13.25	9.22	7.27	0.09
10.70	2.58	1.18	0.06	13.30	9.26	7.31	0.09
10.75	2.62	1.21	0.07	13.35	9.30	7.35	0.08
10.80	2.66	1.24	0.07	13.40	9.33	7.38	0.08
10.85	2.70	1.28	0.08	13.45	9.37	7.41	0.07
10.90	2.75	1.31	0.08	13.50	9.40	7.45	0.07
10.95	2.79	1.35	0.08	13.55	9.43	7.48	0.07
11.00	2.84	1.39	0.08	13.60	9.46	7.50	0.06
11.05	2.89	1.43	0.09	13.65	9.49	7.53	0.06
11.10	2.95	1.47	0.10	13.70	9.52	7.56	0.06
11.15	3.01	1.52	0.11	13.75	9.55	7.59	0.06
11.20	3.07	1.57	0.11	13.80	9.57	7.62	0.06
11.25	3.13	1.63	0.12	13.85	9.60	7.64	0.06
11.30	3.20	1.68	0.12	13.90	9.63	7.67	0.06
11.35	3.27	1.74	0.13	13.95	9.65	7.69	0.06
11.40	3.34	1.80	0.14	14.00	9.68	7.72	0.06
11.45	3.42	1.87	0.14	14.05	9.71	7.74	0.06
11.50	3.50	1.94	0.15	14.10	9.73	7.77	0.05
11.55	3.62	2.04	0.21	14.15	9.76	7.79	0.05
11.60	3.74	2.14	0.23	14.20	9.78	7.82	0.05
11.65	3.86	2.25	0.24	14.25	9.81	7.84	0.05
11.70	3.99	2.36	0.25	14.30	9.83	7.86	0.05
11.75	4.16	2.52	0.32	14.35	9.85	7.88	0.05
11.80	4.34	2.67	0.34	14.40	9.87	7.91	0.05
11.85	4.58	2.88	0.46	14.45	9.90	7.93	0.05
11.90	4.82	3.10	0.48	14.50	9.92	7.95	0.05
11.95	5.23	3.48	0.78	14.55	9.94	7.97	0.05
12.00	5.64	3.86	0.85	14.60	9.96	7.99	0.05
12.05	6.33	4.51	1.34	14.65	9.98	8.01	0.04
12.10	7.02	5.16	**1.44**	14.70	10.00	8.03	0.04
12.15	7.26	5.39	0.66	14.75	10.02	8.05	0.04
12.20	7.50	5.62	0.52	14.80	10.04	8.07	0.04
12.25	7.68	5.79	0.39	14.85	10.06	8.09	0.04
12.30	7.85	5.95	0.37	14.90	10.08	8.10	0.04
12.35	7.98	6.07	0.28	14.95	10.09	8.12	0.04
12.40	8.10	6.19	0.27	15.00	10.11	8.14	0.04
12.45	8.22	6.31	0.26	15.05	10.13	8.15	0.04
12.50	8.34	6.42	0.26	15.10	10.14	8.17	0.04
12.55	8.42	6.50	0.18	15.15	10.16	8.19	0.04
12.60	8.50	6.57	0.17	15.20	10.18	8.20	0.04
12.65	8.57	6.64	0.16	15.25	10.19	8.22	0.03
12.70	8.64	6.71	0.15	15.30	10.21	8.23	0.03
12.75	8.71	6.78	0.14	15.35	10.22	8.25	0.03
12.80	8.77	6.84	0.14	15.40	10.24	8.26	0.03
12.85	8.83	6.90	0.13	15.45	10.26	8.28	0.03
12.90	8.89	6.95	0.13	15.50	10.27	8.29	0.03
12.95	8.95	7.01	0.12	15.55	10.29	8.31	0.03

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	10.30	8.32	0.03	18.20	10.94	8.95	0.02
15.65	10.32	8.34	0.03	18.25	10.95	8.95	0.02
15.70	10.33	8.35	0.03	18.30	10.96	8.96	0.02
15.75	10.35	8.37	0.03	18.35	10.97	8.97	0.02
15.80	10.36	8.38	0.03	18.40	10.98	8.98	0.02
15.85	10.38	8.40	0.03	18.45	10.99	8.99	0.02
15.90	10.39	8.41	0.03	18.50	11.00	9.00	0.02
15.95	10.41	8.43	0.03	18.55	11.01	9.01	0.02
16.00	10.42	8.44	0.03	18.60	11.01	9.02	0.02
16.05	10.44	8.45	0.03	18.65	11.02	9.03	0.02
16.10	10.45	8.47	0.03	18.70	11.03	9.04	0.02
16.15	10.46	8.48	0.03	18.75	11.04	9.04	0.02
16.20	10.48	8.49	0.03	18.80	11.05	9.05	0.02
16.25	10.49	8.51	0.03	18.85	11.06	9.06	0.02
16.30	10.51	8.52	0.03	18.90	11.07	9.07	0.02
16.35	10.52	8.53	0.03	18.95	11.08	9.08	0.02
16.40	10.53	8.55	0.03	19.00	11.09	9.09	0.02
16.45	10.55	8.56	0.03	19.05	11.10	9.10	0.02
16.50	10.56	8.57	0.03	19.10	11.10	9.11	0.02
16.55	10.57	8.59	0.03	19.15	11.11	9.12	0.02
16.60	10.59	8.60	0.03	19.20	11.12	9.12	0.02
16.65	10.60	8.61	0.03	19.25	11.13	9.13	0.02
16.70	10.61	8.62	0.03	19.30	11.14	9.14	0.02
16.75	10.62	8.64	0.03	19.35	11.15	9.15	0.02
16.80	10.64	8.65	0.03	19.40	11.16	9.16	0.02
16.85	10.65	8.66	0.03	19.45	11.17	9.17	0.02
16.90	10.66	8.67	0.03	19.50	11.18	9.18	0.02
16.95	10.67	8.68	0.03	19.55	11.18	9.18	0.02
17.00	10.69	8.70	0.03	19.60	11.19	9.19	0.02
17.05	10.70	8.71	0.03	19.65	11.20	9.20	0.02
17.10	10.71	8.72	0.03	19.70	11.21	9.21	0.02
17.15	10.72	8.73	0.03	19.75	11.22	9.22	0.02
17.20	10.73	8.74	0.03	19.80	11.23	9.23	0.02
17.25	10.74	8.75	0.02	19.85	11.24	9.23	0.02
17.30	10.75	8.76	0.02	19.90	11.24	9.24	0.02
17.35	10.77	8.78	0.02	19.95	11.25	9.25	0.02
17.40	10.78	8.79	0.02	20.00	11.26	9.26	0.02
17.45	10.79	8.80	0.02	20.05	11.27	9.27	0.02
17.50	10.80	8.81	0.02	20.10	11.28	9.27	0.02
17.55	10.81	8.82	0.02	20.15	11.29	9.28	0.02
17.60	10.82	8.83	0.02	20.20	11.29	9.29	0.02
17.65	10.83	8.84	0.02	20.25	11.30	9.30	0.02
17.70	10.84	8.85	0.02	20.30	11.31	9.31	0.02
17.75	10.85	8.86	0.02	20.35	11.32	9.32	0.02
17.80	10.86	8.87	0.02	20.40	11.33	9.32	0.02
17.85	10.87	8.88	0.02	20.45	11.33	9.33	0.02
17.90	10.88	8.89	0.02	20.50	11.34	9.34	0.02
17.95	10.89	8.90	0.02	20.55	11.35	9.35	0.02
18.00	10.90	8.91	0.02	20.60	11.36	9.35	0.02
18.05	10.91	8.92	0.02	20.65	11.37	9.36	0.02
18.10	10.92	8.93	0.02	20.70	11.38	9.37	0.02
18.15	10.93	8.94	0.02	20.75	11.38	9.38	0.02

Hydrograph for Subcatchment PDA 4 Perv: PDA4 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	11.39	9.39	0.02	23.40	11.76	9.75	0.01
20.85	11.40	9.39	0.02	23.45	11.77	9.76	0.01
20.90	11.41	9.40	0.02	23.50	11.78	9.76	0.01
20.95	11.41	9.41	0.02	23.55	11.78	9.77	0.01
21.00	11.42	9.42	0.02	23.60	11.79	9.77	0.01
21.05	11.43	9.42	0.02	23.65	11.79	9.78	0.01
21.10	11.44	9.43	0.02	23.70	11.80	9.79	0.01
21.15	11.45	9.44	0.02	23.75	11.81	9.79	0.01
21.20	11.45	9.45	0.02	23.80	11.81	9.80	0.01
21.25	11.46	9.45	0.02	23.85	11.82	9.80	0.01
21.30	11.47	9.46	0.02	23.90	11.82	9.81	0.01
21.35	11.48	9.47	0.02	23.95	11.83	9.82	0.02
21.40	11.48	9.48	0.02	24.00	**11.84**	**9.83**	0.02
21.45	11.49	9.48	0.02				
21.50	11.50	9.49	0.02				
21.55	11.51	9.50	0.02				
21.60	11.51	9.51	0.02				
21.65	11.52	9.51	0.02				
21.70	11.53	9.52	0.02				
21.75	11.54	9.53	0.02				
21.80	11.54	9.54	0.02				
21.85	11.55	9.54	0.02				
21.90	11.56	9.55	0.02				
21.95	11.57	9.56	0.02				
22.00	11.57	9.56	0.02				
22.05	11.58	9.57	0.02				
22.10	11.59	9.58	0.02				
22.15	11.59	9.58	0.02				
22.20	11.60	9.59	0.02				
22.25	11.61	9.60	0.02				
22.30	11.62	9.61	0.02				
22.35	11.62	9.61	0.02				
22.40	11.63	9.62	0.02				
22.45	11.64	9.63	0.02				
22.50	11.64	9.63	0.02				
22.55	11.65	9.64	0.02				
22.60	11.66	9.65	0.02				
22.65	11.66	9.65	0.01				
22.70	11.67	9.66	0.01				
22.75	11.68	9.67	0.01				
22.80	11.68	9.67	0.01				
22.85	11.69	9.68	0.01				
22.90	11.70	9.69	0.01				
22.95	11.70	9.69	0.01				
23.00	11.71	9.70	0.01				
23.05	11.72	9.71	0.01				
23.10	11.72	9.71	0.01				
23.15	11.73	9.72	0.01				
23.20	11.74	9.72	0.01				
23.25	11.74	9.73	0.01				
23.30	11.75	9.74	0.01				
23.35	11.76	9.74	0.01				

Summary for Subcatchment PDA1A IMP: PDA1A IMP

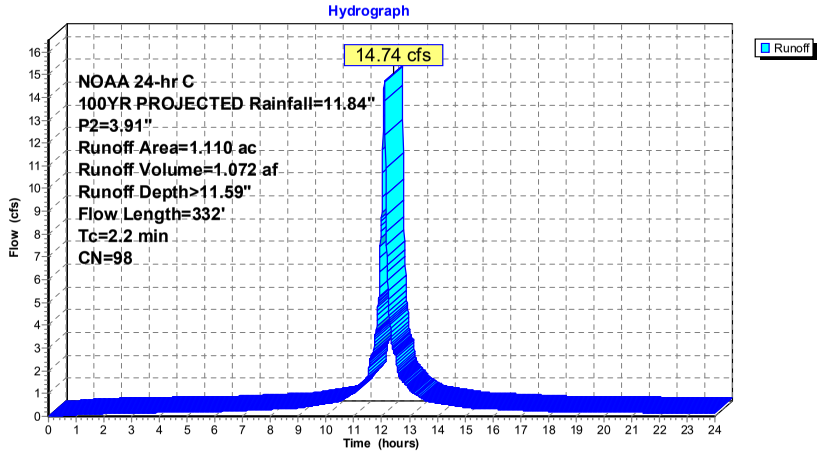
Runoff = 14.74 cfs @ 12.11 hrs, Volume= 1.072 af, Depth>11.59"
Routed to Link P1A : P1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"

	Area (ac)	CN	Description
*	0.340	98	Impervious vehicular
	0.770	98	Roofs, HSG D
	1.110	98	Weighted Average
	1.110		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0160	1.39		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.4	47	0.0100	2.03		**Shallow Concentrated Flow, paved** Paved Kv= 20.3 fps
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
2.2	332	Total			

Subcatchment PDA1A IMP: PDA1A IMP



Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.36	0.19	0.14
0.05	0.01	0.00	0.00	2.65	0.36	0.20	0.14
0.10	0.02	0.00	0.00	2.70	0.37	0.20	0.14
0.15	0.02	0.00	0.00	2.75	0.38	0.21	0.15
0.20	0.03	0.00	0.00	2.80	0.39	0.22	0.15
0.25	0.03	0.00	0.00	2.85	0.39	0.22	0.15
0.30	0.04	0.00	0.00	2.90	0.40	0.23	0.15
0.35	0.05	0.00	0.00	2.95	0.41	0.24	0.15
0.40	0.05	0.00	0.01	3.00	0.42	0.24	0.15
0.45	0.06	0.00	0.01	3.05	0.43	0.25	0.15
0.50	0.06	0.00	0.02	3.10	0.43	0.26	0.15
0.55	0.07	0.00	0.03	3.15	0.44	0.27	0.15
0.60	0.08	0.01	0.03	3.20	0.45	0.27	0.16
0.65	0.08	0.01	0.04	3.25	0.46	0.28	0.16
0.70	0.09	0.01	0.05	3.30	0.46	0.29	0.16
0.75	0.10	0.01	0.05	3.35	0.47	0.29	0.16
0.80	0.10	0.01	0.05	3.40	0.48	0.30	0.16
0.85	0.11	0.02	0.06	3.45	0.49	0.31	0.16
0.90	0.12	0.02	0.06	3.50	0.50	0.32	0.16
0.95	0.12	0.02	0.07	3.55	0.51	0.32	0.16
1.00	0.13	0.03	0.07	3.60	0.51	0.33	0.16
1.05	0.14	0.03	0.08	3.65	0.52	0.34	0.17
1.10	0.14	0.03	0.08	3.70	0.53	0.34	0.17
1.15	0.15	0.04	0.08	3.75	0.54	0.35	0.17
1.20	0.16	0.04	0.09	3.80	0.55	0.36	0.17
1.25	0.16	0.05	0.09	3.85	0.55	0.37	0.17
1.30	0.17	0.05	0.09	3.90	0.56	0.38	0.17
1.35	0.18	0.05	0.09	3.95	0.57	0.38	0.17
1.40	0.18	0.06	0.10	4.00	0.58	0.39	0.17
1.45	0.19	0.06	0.10	4.05	0.59	0.40	0.17
1.50	0.20	0.07	0.10	4.10	0.60	0.41	0.17
1.55	0.20	0.07	0.11	4.15	0.60	0.41	0.18
1.60	0.21	0.08	0.11	4.20	0.61	0.42	0.18
1.65	0.22	0.08	0.11	4.25	0.62	0.43	0.18
1.70	0.22	0.09	0.11	4.30	0.63	0.44	0.18
1.75	0.23	0.09	0.11	4.35	0.64	0.45	0.18
1.80	0.24	0.10	0.12	4.40	0.65	0.45	0.18
1.85	0.25	0.10	0.12	4.45	0.66	0.46	0.18
1.90	0.25	0.11	0.12	4.50	0.66	0.47	0.18
1.95	0.26	0.11	0.12	4.55	0.67	0.48	0.18
2.00	0.27	0.12	0.12	4.60	0.68	0.49	0.18
2.05	0.27	0.13	0.12	4.65	0.69	0.49	0.18
2.10	0.28	0.13	0.13	4.70	0.70	0.50	0.18
2.15	0.29	0.14	0.13	4.75	0.71	0.51	0.19
2.20	0.30	0.14	0.13	4.80	0.72	0.52	0.19
2.25	0.30	0.15	0.13	4.85	0.73	0.53	0.19
2.30	0.31	0.15	0.13	4.90	0.74	0.54	0.19
2.35	0.32	0.16	0.13	4.95	0.74	0.55	0.19
2.40	0.33	0.17	0.14	5.00	0.75	0.55	0.19
2.45	0.33	0.17	0.14	5.05	0.76	0.56	0.19
2.50	0.34	0.18	0.14	5.10	0.77	0.57	0.19
2.55	0.35	0.19	0.14	5.15	0.78	0.58	0.19

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.79	0.59	0.19	7.80	1.36	1.14	0.30
5.25	0.80	0.60	0.19	7.85	1.38	1.16	0.31
5.30	0.81	0.61	0.19	7.90	1.39	1.17	0.31
5.35	0.82	0.61	0.20	7.95	1.40	1.19	0.31
5.40	0.83	0.62	0.20	8.00	1.42	1.20	0.31
5.45	0.83	0.63	0.20	8.05	1.43	1.21	0.32
5.50	0.84	0.64	0.20	8.10	1.45	1.23	0.32
5.55	0.85	0.65	0.20	8.15	1.46	1.24	0.32
5.60	0.86	0.66	0.20	8.20	1.48	1.26	0.32
5.65	0.87	0.67	0.20	8.25	1.49	1.27	0.33
5.70	0.88	0.68	0.20	8.30	1.51	1.29	0.33
5.75	0.89	0.69	0.20	8.35	1.52	1.30	0.33
5.80	0.90	0.69	0.20	8.40	1.54	1.32	0.33
5.85	0.91	0.70	0.20	8.45	1.55	1.33	0.34
5.90	0.92	0.71	0.20	8.50	1.57	1.35	0.34
5.95	0.93	0.72	0.21	8.55	1.58	1.36	0.34
6.00	0.94	0.73	0.21	8.60	1.60	1.38	0.34
6.05	0.95	0.74	0.21	8.65	1.62	1.39	0.35
6.10	0.96	0.75	0.21	8.70	1.63	1.41	0.35
6.15	0.97	0.76	0.21	8.75	1.65	1.43	0.35
6.20	0.98	0.77	0.22	8.80	1.66	1.44	0.36
6.25	0.99	0.78	0.22	8.85	1.68	1.46	0.36
6.30	1.00	0.79	0.22	8.90	1.70	1.47	0.36
6.35	1.01	0.80	0.22	8.95	1.71	1.49	0.36
6.40	1.02	0.81	0.23	9.00	1.73	1.51	0.37
6.45	1.03	0.82	0.23	9.05	1.75	1.52	0.38
6.50	1.04	0.83	0.23	9.10	1.76	1.54	0.38
6.55	1.05	0.84	0.24	9.15	1.78	1.56	0.40
6.60	1.06	0.85	0.24	9.20	1.80	1.58	0.40
6.65	1.07	0.86	0.24	9.25	1.82	1.60	0.42
6.70	1.09	0.87	0.24	9.30	1.84	1.62	0.42
6.75	1.10	0.88	0.25	9.35	1.86	1.64	0.44
6.80	1.11	0.90	0.25	9.40	1.88	1.66	0.44
6.85	1.12	0.91	0.25	9.45	1.90	1.68	0.46
6.90	1.13	0.92	0.25	9.50	1.92	1.70	0.46
6.95	1.14	0.93	0.26	9.55	1.94	1.72	0.48
7.00	1.15	0.94	0.26	9.60	1.97	1.74	0.48
7.05	1.17	0.95	0.26	9.65	1.99	1.76	0.50
7.10	1.18	0.97	0.26	9.70	2.01	1.79	0.50
7.15	1.19	0.98	0.27	9.75	2.03	1.81	0.52
7.20	1.20	0.99	0.27	9.80	2.06	1.83	0.52
7.25	1.22	1.00	0.27	9.85	2.08	1.86	0.54
7.30	1.23	1.01	0.27	9.90	2.11	1.88	0.54
7.35	1.24	1.03	0.28	9.95	2.13	1.91	0.56
7.40	1.25	1.04	0.28	10.00	2.16	1.93	0.56
7.45	1.27	1.05	0.28	10.05	2.19	1.96	0.58
7.50	1.28	1.06	0.29	10.10	2.21	1.98	0.58
7.55	1.29	1.08	0.29	10.15	2.24	2.01	0.60
7.60	1.31	1.09	0.29	10.20	2.27	2.04	0.60
7.65	1.32	1.10	0.29	10.25	2.29	2.07	0.62
7.70	1.33	1.12	0.30	10.30	2.32	2.09	0.62
7.75	1.35	1.13	0.30	10.35	2.35	2.12	0.64

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	2.38	2.15	0.64	13.00	9.00	8.76	1.21
10.45	2.41	2.18	0.66	13.05	9.05	8.81	1.12
10.50	2.44	2.21	0.66	13.10	9.09	8.85	1.07
10.55	2.47	2.24	0.71	13.15	9.14	8.90	1.01
10.60	2.51	2.28	0.73	13.20	9.18	8.94	0.98
10.65	2.54	2.31	0.78	13.25	9.22	8.98	0.93
10.70	2.58	2.35	0.81	13.30	9.26	9.02	0.91
10.75	2.62	2.39	0.86	13.35	9.30	9.06	0.86
10.80	2.66	2.43	0.88	13.40	9.33	9.09	0.83
10.85	2.70	2.47	0.93	13.45	9.37	9.13	0.78
10.90	2.75	2.52	0.96	13.50	9.40	9.16	0.76
10.95	2.79	2.56	1.01	13.55	9.43	9.19	0.71
11.00	2.84	2.61	1.04	13.60	9.46	9.22	0.68
11.05	2.89	2.66	1.12	13.65	9.49	9.25	0.66
11.10	2.95	2.72	1.17	13.70	9.52	9.28	0.65
11.15	3.01	2.78	1.26	13.75	9.55	9.31	0.64
11.20	3.07	2.84	1.31	13.80	9.57	9.33	0.63
11.25	3.13	2.90	1.40	13.85	9.60	9.36	0.62
11.30	3.20	2.97	1.45	13.90	9.63	9.39	0.61
11.35	3.27	3.04	1.55	13.95	9.65	9.41	0.60
11.40	3.34	3.11	1.60	14.00	9.68	9.44	0.59
11.45	3.42	3.19	1.67	14.05	9.71	9.47	0.58
11.50	3.50	3.27	1.71	14.10	9.73	9.49	0.57
11.55	3.62	3.38	2.24	14.15	9.76	9.52	0.56
11.60	3.74	3.50	2.55	14.20	9.78	9.54	0.55
11.65	3.86	3.63	2.72	14.25	9.81	9.56	0.54
11.70	3.99	3.76	2.79	14.30	9.83	9.59	0.53
11.75	4.16	3.93	3.38	14.35	9.85	9.61	0.52
11.80	4.34	4.10	3.72	14.40	9.87	9.63	0.51
11.85	4.58	4.34	4.65	14.45	9.90	9.66	0.50
11.90	4.82	4.58	5.16	14.50	9.92	9.68	0.49
11.95	5.23	4.99	7.45	14.55	9.94	9.70	0.48
12.00	5.64	5.41	8.74	14.60	9.96	9.72	0.47
12.05	6.33	6.10	12.54	14.65	9.98	9.74	0.46
12.10	7.02	6.79	**14.62**	14.70	10.00	9.76	0.45
12.15	7.26	7.03	**9.73**	14.75	10.02	9.78	0.44
12.20	7.50	7.26	6.65	14.80	10.04	9.80	0.43
12.25	7.68	7.44	4.83	14.85	10.06	9.82	0.42
12.30	7.85	7.61	4.11	14.90	10.08	9.84	0.41
12.35	7.98	7.74	3.33	14.95	10.09	9.85	0.40
12.40	8.10	7.86	2.96	15.00	10.11	9.87	0.39
12.45	8.22	7.98	2.77	15.05	10.13	9.89	0.38
12.50	8.34	8.10	2.70	15.10	10.14	9.90	0.37
12.55	8.42	8.18	2.16	15.15	10.16	9.92	0.37
12.60	8.50	8.26	1.85	15.20	10.18	9.94	0.37
12.65	8.57	8.33	1.70	15.25	10.19	9.95	0.36
12.70	8.64	8.40	1.64	15.30	10.21	9.97	0.36
12.75	8.71	8.47	1.54	15.35	10.22	9.98	0.36
12.80	8.77	8.53	1.50	15.40	10.24	10.00	0.36
12.85	8.83	8.59	1.40	15.45	10.26	10.02	0.35
12.90	8.89	8.65	1.35	15.50	10.27	10.03	0.35
12.95	8.95	8.70	1.26	15.55	10.29	10.05	0.35

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	10.30	10.06	0.35	18.20	10.94	10.70	0.21
15.65	10.32	10.08	0.34	18.25	10.95	10.71	0.21
15.70	10.33	10.09	0.34	18.30	10.96	10.72	0.21
15.75	10.35	10.11	0.34	18.35	10.97	10.73	0.21
15.80	10.36	10.12	0.33	18.40	10.98	10.74	0.21
15.85	10.38	10.14	0.33	18.45	10.99	10.75	0.21
15.90	10.39	10.15	0.33	18.50	11.00	10.75	0.21
15.95	10.41	10.17	0.33	18.55	11.01	10.76	0.21
16.00	10.42	10.18	0.32	18.60	11.01	10.77	0.21
16.05	10.44	10.19	0.32	18.65	11.02	10.78	0.21
16.10	10.45	10.21	0.32	18.70	11.03	10.79	0.21
16.15	10.46	10.22	0.32	18.75	11.04	10.80	0.20
16.20	10.48	10.24	0.31	18.80	11.05	10.81	0.20
16.25	10.49	10.25	0.31	18.85	11.06	10.82	0.20
16.30	10.51	10.26	0.31	18.90	11.07	10.83	0.20
16.35	10.52	10.28	0.31	18.95	11.08	10.84	0.20
16.40	10.53	10.29	0.30	19.00	11.09	10.85	0.20
16.45	10.55	10.30	0.30	19.05	11.10	10.85	0.20
16.50	10.56	10.32	0.30	19.10	11.10	10.86	0.20
16.55	10.57	10.33	0.29	19.15	11.11	10.87	0.20
16.60	10.59	10.34	0.29	19.20	11.12	10.88	0.20
16.65	10.60	10.36	0.29	19.25	11.13	10.89	0.20
16.70	10.61	10.37	0.29	19.30	11.14	10.90	0.20
16.75	10.62	10.38	0.28	19.35	11.15	10.91	0.20
16.80	10.64	10.40	0.28	19.40	11.16	10.92	0.20
16.85	10.65	10.41	0.28	19.45	11.17	10.93	0.20
16.90	10.66	10.42	0.28	19.50	11.18	10.93	0.19
16.95	10.67	10.43	0.27	19.55	11.18	10.94	0.19
17.00	10.69	10.44	0.27	19.60	11.19	10.95	0.19
17.05	10.70	10.46	0.27	19.65	11.20	10.96	0.19
17.10	10.71	10.47	0.27	19.70	11.21	10.97	0.19
17.15	10.72	10.48	0.26	19.75	11.22	10.98	0.19
17.20	10.73	10.49	0.26	19.80	11.23	10.99	0.19
17.25	10.74	10.50	0.26	19.85	11.24	10.99	0.19
17.30	10.75	10.51	0.26	19.90	11.24	11.00	0.19
17.35	10.77	10.53	0.25	19.95	11.25	11.01	0.19
17.40	10.78	10.54	0.25	20.00	11.26	11.02	0.19
17.45	10.79	10.55	0.25	20.05	11.27	11.03	0.19
17.50	10.80	10.56	0.25	20.10	11.28	11.04	0.19
17.55	10.81	10.57	0.24	20.15	11.29	11.04	0.19
17.60	10.82	10.58	0.24	20.20	11.29	11.05	0.19
17.65	10.83	10.59	0.24	20.25	11.30	11.06	0.18
17.70	10.84	10.60	0.24	20.30	11.31	11.07	0.18
17.75	10.85	10.61	0.23	20.35	11.32	11.08	0.18
17.80	10.86	10.62	0.23	20.40	11.33	11.09	0.18
17.85	10.87	10.63	0.23	20.45	11.33	11.09	0.18
17.90	10.88	10.64	0.22	20.50	11.34	11.10	0.18
17.95	10.89	10.65	0.22	20.55	11.35	11.11	0.18
18.00	10.90	10.66	0.22	20.60	11.36	11.12	0.18
18.05	10.91	10.67	0.22	20.65	11.37	11.13	0.18
18.10	10.92	10.68	0.21	20.70	11.38	11.13	0.18
18.15	10.93	10.69	0.21	20.75	11.38	11.14	0.18

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	11.39	11.15	0.18	23.40	11.76	11.52	0.14
20.85	11.40	11.16	0.18	23.45	11.77	11.53	0.14
20.90	11.41	11.17	0.18	23.50	11.78	11.53	0.14
20.95	11.41	11.17	0.18	23.55	11.78	11.54	0.14
21.00	11.42	11.18	0.18	23.60	11.79	11.55	0.14
21.05	11.43	11.19	0.17	23.65	11.79	11.55	0.14
21.10	11.44	11.20	0.17	23.70	11.80	11.56	0.14
21.15	11.45	11.20	0.17	23.75	11.81	11.57	0.14
21.20	11.45	11.21	0.17	23.80	11.81	11.57	0.14
21.25	11.46	11.22	0.17	23.85	11.82	11.58	0.14
21.30	11.47	11.23	0.17	23.90	11.82	11.58	0.14
21.35	11.48	11.23	0.17	23.95	11.83	11.59	0.15
21.40	11.48	11.24	0.17	24.00	**11.84**	**11.60**	0.17
21.45	11.49	11.25	0.17				
21.50	11.50	11.26	0.17				
21.55	11.51	11.26	0.17				
21.60	11.51	11.27	0.17				
21.65	11.52	11.28	0.17				
21.70	11.53	11.29	0.17				
21.75	11.54	11.29	0.17				
21.80	11.54	11.30	0.17				
21.85	11.55	11.31	0.16				
21.90	11.56	11.32	0.16				
21.95	11.57	11.32	0.16				
22.00	11.57	11.33	0.16				
22.05	11.58	11.34	0.16				
22.10	11.59	11.35	0.16				
22.15	11.59	11.35	0.16				
22.20	11.60	11.36	0.16				
22.25	11.61	11.37	0.16				
22.30	11.62	11.37	0.16				
22.35	11.62	11.38	0.16				
22.40	11.63	11.39	0.16				
22.45	11.64	11.39	0.16				
22.50	11.64	11.40	0.16				
22.55	11.65	11.41	0.16				
22.60	11.66	11.42	0.16				
22.65	11.66	11.42	0.15				
22.70	11.67	11.43	0.15				
22.75	11.68	11.44	0.15				
22.80	11.68	11.44	0.15				
22.85	11.69	11.45	0.15				
22.90	11.70	11.46	0.15				
22.95	11.70	11.46	0.15				
23.00	11.71	11.47	0.15				
23.05	11.72	11.48	0.15				
23.10	11.72	11.48	0.15				
23.15	11.73	11.49	0.15				
23.20	11.74	11.50	0.15				
23.25	11.74	11.50	0.15				
23.30	11.75	11.51	0.14				
23.35	11.76	11.51	0.14				

Summary for Subcatchment PDA1A PERV: PDA-1A PERV

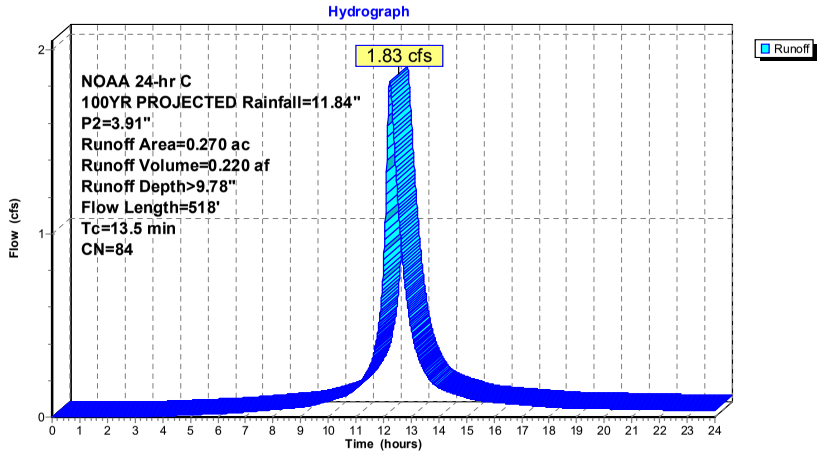
Runoff = 1.83 cfs @ 12.23 hrs, Volume= 0.220 af, Depth> 9.78"
Routed to Link P1A : P1A

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"

Area (ac)	CN	Description
* 0.270	84	>75% Grass cover, Good, HSG D
0.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.7	100	0.0100	0.14		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
0.1	22	0.0075	4.46	7.88	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
1.1	211	0.0021	3.32	16.29	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP-2 Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
13.5	518	Total			

Subcatchment PDA1A PERV: PDA-1A PERV



Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.36	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.36	0.00	0.00
0.10	0.02	0.00	0.00	2.70	0.37	0.00	0.00
0.15	0.02	0.00	0.00	2.75	0.38	0.00	0.00
0.20	0.03	0.00	0.00	2.80	0.39	0.00	0.00
0.25	0.03	0.00	0.00	2.85	0.39	0.00	0.00
0.30	0.04	0.00	0.00	2.90	0.40	0.00	0.00
0.35	0.05	0.00	0.00	2.95	0.41	0.00	0.00
0.40	0.05	0.00	0.00	3.00	0.42	0.00	0.00
0.45	0.06	0.00	0.00	3.05	0.43	0.00	0.00
0.50	0.06	0.00	0.00	3.10	0.43	0.00	0.00
0.55	0.07	0.00	0.00	3.15	0.44	0.00	0.00
0.60	0.08	0.00	0.00	3.20	0.45	0.00	0.00
0.65	0.08	0.00	0.00	3.25	0.46	0.00	0.00
0.70	0.09	0.00	0.00	3.30	0.46	0.00	0.00
0.75	0.10	0.00	0.00	3.35	0.47	0.00	0.00
0.80	0.10	0.00	0.00	3.40	0.48	0.00	0.00
0.85	0.11	0.00	0.00	3.45	0.49	0.01	0.00
0.90	0.12	0.00	0.00	3.50	0.50	0.01	0.00
0.95	0.12	0.00	0.00	3.55	0.51	0.01	0.00
1.00	0.13	0.00	0.00	3.60	0.51	0.01	0.00
1.05	0.14	0.00	0.00	3.65	0.52	0.01	0.00
1.10	0.14	0.00	0.00	3.70	0.53	0.01	0.00
1.15	0.15	0.00	0.00	3.75	0.54	0.01	0.00
1.20	0.16	0.00	0.00	3.80	0.55	0.01	0.00
1.25	0.16	0.00	0.00	3.85	0.55	0.01	0.00
1.30	0.17	0.00	0.00	3.90	0.56	0.02	0.01
1.35	0.18	0.00	0.00	3.95	0.57	0.02	0.01
1.40	0.18	0.00	0.00	4.00	0.58	0.02	0.01
1.45	0.19	0.00	0.00	4.05	0.59	0.02	0.01
1.50	0.20	0.00	0.00	4.10	0.60	0.02	0.01
1.55	0.20	0.00	0.00	4.15	0.60	0.02	0.01
1.60	0.21	0.00	0.00	4.20	0.61	0.03	0.01
1.65	0.22	0.00	0.00	4.25	0.62	0.03	0.01
1.70	0.22	0.00	0.00	4.30	0.63	0.03	0.01
1.75	0.23	0.00	0.00	4.35	0.64	0.03	0.01
1.80	0.24	0.00	0.00	4.40	0.65	0.03	0.01
1.85	0.25	0.00	0.00	4.45	0.66	0.03	0.01
1.90	0.25	0.00	0.00	4.50	0.66	0.04	0.01
1.95	0.26	0.00	0.00	4.55	0.67	0.04	0.01
2.00	0.27	0.00	0.00	4.60	0.68	0.04	0.01
2.05	0.27	0.00	0.00	4.65	0.69	0.04	0.01
2.10	0.28	0.00	0.00	4.70	0.70	0.05	0.01
2.15	0.29	0.00	0.00	4.75	0.71	0.05	0.01
2.20	0.30	0.00	0.00	4.80	0.72	0.05	0.01
2.25	0.30	0.00	0.00	4.85	0.73	0.05	0.01
2.30	0.31	0.00	0.00	4.90	0.74	0.06	0.01
2.35	0.32	0.00	0.00	4.95	0.74	0.06	0.01
2.40	0.33	0.00	0.00	5.00	0.75	0.06	0.01
2.45	0.33	0.00	0.00	5.05	0.76	0.06	0.01
2.50	0.34	0.00	0.00	5.10	0.77	0.07	0.01
2.55	0.35	0.00	0.00	5.15	0.78	0.07	0.01

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.79	0.07	0.01	7.80	1.36	0.33	0.04
5.25	0.80	0.07	0.01	7.85	1.38	0.34	0.04
5.30	0.81	0.08	0.01	7.90	1.39	0.35	0.04
5.35	0.82	0.08	0.01	7.95	1.40	0.36	0.04
5.40	0.83	0.08	0.01	8.00	1.42	0.37	0.04
5.45	0.83	0.09	0.02	8.05	1.43	0.37	0.04
5.50	0.84	0.09	0.02	8.10	1.45	0.38	0.04
5.55	0.85	0.09	0.02	8.15	1.46	0.39	0.04
5.60	0.86	0.10	0.02	8.20	1.48	0.40	0.04
5.65	0.87	0.10	0.02	8.25	1.49	0.41	0.04
5.70	0.88	0.10	0.02	8.30	1.51	0.42	0.04
5.75	0.89	0.11	0.02	8.35	1.52	0.43	0.05
5.80	0.90	0.11	0.02	8.40	1.54	0.44	0.05
5.85	0.91	0.11	0.02	8.45	1.55	0.45	0.05
5.90	0.92	0.12	0.02	8.50	1.57	0.46	0.05
5.95	0.93	0.12	0.02	8.55	1.58	0.47	0.05
6.00	0.94	0.13	0.02	8.60	1.60	0.48	0.05
6.05	0.95	0.13	0.02	8.65	1.62	0.49	0.05
6.10	0.96	0.13	0.02	8.70	1.63	0.50	0.05
6.15	0.97	0.14	0.02	8.75	1.65	0.51	0.05
6.20	0.98	0.14	0.02	8.80	1.66	0.52	0.05
6.25	0.99	0.15	0.02	8.85	1.68	0.53	0.05
6.30	1.00	0.15	0.02	8.90	1.70	0.54	0.05
6.35	1.01	0.16	0.02	8.95	1.71	0.55	0.05
6.40	1.02	0.16	0.02	9.00	1.73	0.56	0.05
6.45	1.03	0.16	0.02	9.05	1.75	0.57	0.06
6.50	1.04	0.17	0.02	9.10	1.76	0.58	0.06
6.55	1.05	0.17	0.02	9.15	1.78	0.59	0.06
6.60	1.06	0.18	0.02	9.20	1.80	0.61	0.06
6.65	1.07	0.18	0.02	9.25	1.82	0.62	0.06
6.70	1.09	0.19	0.02	9.30	1.84	0.63	0.06
6.75	1.10	0.20	0.03	9.35	1.86	0.65	0.06
6.80	1.11	0.20	0.03	9.40	1.88	0.66	0.06
6.85	1.12	0.21	0.03	9.45	1.90	0.67	0.07
6.90	1.13	0.21	0.03	9.50	1.92	0.69	0.07
6.95	1.14	0.22	0.03	9.55	1.94	0.70	0.07
7.00	1.15	0.22	0.03	9.60	1.97	0.72	0.07
7.05	1.17	0.23	0.03	9.65	1.99	0.74	0.07
7.10	1.18	0.24	0.03	9.70	2.01	0.75	0.08
7.15	1.19	0.24	0.03	9.75	2.03	0.77	0.08
7.20	1.20	0.25	0.03	9.80	2.06	0.79	0.08
7.25	1.22	0.25	0.03	9.85	2.08	0.80	0.08
7.30	1.23	0.26	0.03	9.90	2.11	0.82	0.08
7.35	1.24	0.27	0.03	9.95	2.13	0.84	0.09
7.40	1.25	0.27	0.03	10.00	2.16	0.86	0.09
7.45	1.27	0.28	0.03	10.05	2.19	0.88	0.09
7.50	1.28	0.29	0.03	10.10	2.21	0.90	0.09
7.55	1.29	0.30	0.03	10.15	2.24	0.92	0.09
7.60	1.31	0.30	0.04	10.20	2.27	0.94	0.10
7.65	1.32	0.31	0.04	10.25	2.29	0.96	0.10
7.70	1.33	0.32	0.04	10.30	2.32	0.98	0.10
7.75	1.35	0.33	0.04	10.35	2.35	1.00	0.10

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	2.38	1.02	0.11	13.00	9.00	7.06	0.48
10.45	2.41	1.05	0.11	13.05	9.05	7.10	0.44
10.50	2.44	1.07	0.11	13.10	9.09	7.15	0.41
10.55	2.47	1.10	0.11	13.15	9.14	7.19	0.38
10.60	2.51	1.12	0.12	13.20	9.18	7.23	0.35
10.65	2.54	1.15	0.12	13.25	9.22	7.27	0.33
10.70	2.58	1.18	0.12	13.30	9.26	7.31	0.31
10.75	2.62	1.21	0.13	13.35	9.30	7.35	0.29
10.80	2.66	1.24	0.13	13.40	9.33	7.38	0.28
10.85	2.70	1.28	0.14	13.45	9.37	7.41	0.26
10.90	2.75	1.31	0.15	13.50	9.40	7.45	0.25
10.95	2.79	1.35	0.15	13.55	9.43	7.48	0.23
11.00	2.84	1.39	0.16	13.60	9.46	7.50	0.22
11.05	2.89	1.43	0.17	13.65	9.49	7.53	0.21
11.10	2.95	1.47	0.18	13.70	9.52	7.56	0.20
11.15	3.01	1.52	0.19	13.75	9.55	7.59	0.19
11.20	3.07	1.57	0.20	13.80	9.57	7.62	0.18
11.25	3.13	1.63	0.21	13.85	9.60	7.64	0.18
11.30	3.20	1.68	0.22	13.90	9.63	7.67	0.17
11.35	3.27	1.74	0.23	13.95	9.65	7.69	0.17
11.40	3.34	1.80	0.25	14.00	9.68	7.72	0.16
11.45	3.42	1.87	0.26	14.05	9.71	7.74	0.16
11.50	3.50	1.94	0.27	14.10	9.73	7.77	0.15
11.55	3.62	2.04	0.29	14.15	9.76	7.79	0.15
11.60	3.74	2.14	0.31	14.20	9.78	7.82	0.15
11.65	3.86	2.25	0.35	14.25	9.81	7.84	0.14
11.70	3.99	2.36	0.39	14.30	9.83	7.86	0.14
11.75	4.16	2.52	0.42	14.35	9.85	7.88	0.14
11.80	4.34	2.67	0.47	14.40	9.87	7.91	0.14
11.85	4.58	2.88	0.53	14.45	9.90	7.93	0.13
11.90	4.82	3.10	0.60	14.50	9.92	7.95	0.13
11.95	5.23	3.48	0.69	14.55	9.94	7.97	0.13
12.00	5.64	3.86	0.82	14.60	9.96	7.99	0.13
12.05	6.33	4.51	1.01	14.65	9.98	8.01	0.12
12.10	7.02	5.16	1.27	14.70	10.00	8.03	0.12
12.15	7.26	5.39	1.59	14.75	10.02	8.05	0.12
12.20	7.50	5.62	**1.80**	14.80	10.04	8.07	0.12
12.25	7.68	5.79	**1.82**	14.85	10.06	8.09	0.11
12.30	7.85	5.95	1.71	14.90	10.08	8.10	0.11
12.35	7.98	6.07	1.59	14.95	10.09	8.12	0.11
12.40	8.10	6.19	1.46	15.00	10.11	8.14	0.11
12.45	8.22	6.31	1.33	15.05	10.13	8.15	0.10
12.50	8.34	6.42	1.22	15.10	10.14	8.17	0.10
12.55	8.42	6.50	1.12	15.15	10.16	8.19	0.10
12.60	8.50	6.57	1.02	15.20	10.18	8.20	0.10
12.65	8.57	6.64	0.93	15.25	10.19	8.22	0.10
12.70	8.64	6.71	0.84	15.30	10.21	8.23	0.09
12.75	8.71	6.78	0.76	15.35	10.22	8.25	0.09
12.80	8.77	6.84	0.69	15.40	10.24	8.26	0.09
12.85	8.83	6.90	0.63	15.45	10.26	8.28	0.09
12.90	8.89	6.95	0.58	15.50	10.27	8.29	0.09
12.95	8.95	7.01	0.53	15.55	10.29	8.31	0.09

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	10.30	8.32	0.09	18.20	10.94	8.95	0.05
15.65	10.32	8.34	0.09	18.25	10.95	8.95	0.05
15.70	10.33	8.35	0.08	18.30	10.96	8.96	0.05
15.75	10.35	8.37	0.08	18.35	10.97	8.97	0.05
15.80	10.36	8.38	0.08	18.40	10.98	8.98	0.05
15.85	10.38	8.40	0.08	18.45	10.99	8.99	0.05
15.90	10.39	8.41	0.08	18.50	11.00	9.00	0.05
15.95	10.41	8.43	0.08	18.55	11.01	9.01	0.05
16.00	10.42	8.44	0.08	18.60	11.01	9.02	0.05
16.05	10.44	8.45	0.08	18.65	11.02	9.03	0.05
16.10	10.45	8.47	0.08	18.70	11.03	9.04	0.05
16.15	10.46	8.48	0.08	18.75	11.04	9.04	0.05
16.20	10.48	8.49	0.08	18.80	11.05	9.05	0.05
16.25	10.49	8.51	0.08	18.85	11.06	9.06	0.05
16.30	10.51	8.52	0.08	18.90	11.07	9.07	0.05
16.35	10.52	8.53	0.08	18.95	11.08	9.08	0.05
16.40	10.53	8.55	0.08	19.00	11.09	9.09	0.05
16.45	10.55	8.56	0.07	19.05	11.10	9.10	0.05
16.50	10.56	8.57	0.07	19.10	11.10	9.11	0.05
16.55	10.57	8.59	0.07	19.15	11.11	9.12	0.05
16.60	10.59	8.60	0.07	19.20	11.12	9.12	0.05
16.65	10.60	8.61	0.07	19.25	11.13	9.13	0.05
16.70	10.61	8.62	0.07	19.30	11.14	9.14	0.05
16.75	10.62	8.64	0.07	19.35	11.15	9.15	0.05
16.80	10.64	8.65	0.07	19.40	11.16	9.16	0.05
16.85	10.65	8.66	0.07	19.45	11.17	9.17	0.05
16.90	10.66	8.67	0.07	19.50	11.18	9.18	0.05
16.95	10.67	8.68	0.07	19.55	11.18	9.18	0.05
17.00	10.69	8.70	0.07	19.60	11.19	9.19	0.05
17.05	10.70	8.71	0.07	19.65	11.20	9.20	0.05
17.10	10.71	8.72	0.07	19.70	11.21	9.21	0.05
17.15	10.72	8.73	0.07	19.75	11.22	9.22	0.05
17.20	10.73	8.74	0.07	19.80	11.23	9.23	0.05
17.25	10.74	8.75	0.07	19.85	11.24	9.23	0.05
17.30	10.75	8.76	0.06	19.90	11.24	9.24	0.05
17.35	10.77	8.78	0.06	19.95	11.25	9.25	0.05
17.40	10.78	8.79	0.06	20.00	11.26	9.26	0.05
17.45	10.79	8.80	0.06	20.05	11.27	9.27	0.05
17.50	10.80	8.81	0.06	20.10	11.28	9.27	0.05
17.55	10.81	8.82	0.06	20.15	11.29	9.28	0.05
17.60	10.82	8.83	0.06	20.20	11.29	9.29	0.05
17.65	10.83	8.84	0.06	20.25	11.30	9.30	0.04
17.70	10.84	8.85	0.06	20.30	11.31	9.31	0.04
17.75	10.85	8.86	0.06	20.35	11.32	9.32	0.04
17.80	10.86	8.87	0.06	20.40	11.33	9.32	0.04
17.85	10.87	8.88	0.06	20.45	11.33	9.33	0.04
17.90	10.88	8.89	0.06	20.50	11.34	9.34	0.04
17.95	10.89	8.90	0.06	20.55	11.35	9.35	0.04
18.00	10.90	8.91	0.06	20.60	11.36	9.35	0.04
18.05	10.91	8.92	0.06	20.65	11.37	9.36	0.04
18.10	10.92	8.93	0.05	20.70	11.38	9.37	0.04
18.15	10.93	8.94	0.05	20.75	11.38	9.38	0.04

Hydrograph for Subcatchment PDA1A PERV: PDA-1A PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	11.39	9.39	0.04	23.40	11.76	9.75	0.04
20.85	11.40	9.39	0.04	23.45	11.77	9.76	0.03
20.90	11.41	9.40	0.04	23.50	11.78	9.76	0.03
20.95	11.41	9.41	0.04	23.55	11.78	9.77	0.03
21.00	11.42	9.42	0.04	23.60	11.79	9.77	0.03
21.05	11.43	9.42	0.04	23.65	11.79	9.78	0.03
21.10	11.44	9.43	0.04	23.70	11.80	9.79	0.03
21.15	11.45	9.44	0.04	23.75	11.81	9.79	0.03
21.20	11.45	9.45	0.04	23.80	11.81	9.80	0.03
21.25	11.46	9.45	0.04	23.85	11.82	9.80	0.03
21.30	11.47	9.46	0.04	23.90	11.82	9.81	0.03
21.35	11.48	9.47	0.04	23.95	11.83	9.82	0.03
21.40	11.48	9.48	0.04	24.00	**11.84**	**9.83**	0.03
21.45	11.49	9.48	0.04				
21.50	11.50	9.49	0.04				
21.55	11.51	9.50	0.04				
21.60	11.51	9.51	0.04				
21.65	11.52	9.51	0.04				
21.70	11.53	9.52	0.04				
21.75	11.54	9.53	0.04				
21.80	11.54	9.54	0.04				
21.85	11.55	9.54	0.04				
21.90	11.56	9.55	0.04				
21.95	11.57	9.56	0.04				
22.00	11.57	9.56	0.04				
22.05	11.58	9.57	0.04				
22.10	11.59	9.58	0.04				
22.15	11.59	9.58	0.04				
22.20	11.60	9.59	0.04				
22.25	11.61	9.60	0.04				
22.30	11.62	9.61	0.04				
22.35	11.62	9.61	0.04				
22.40	11.63	9.62	0.04				
22.45	11.64	9.63	0.04				
22.50	11.64	9.63	0.04				
22.55	11.65	9.64	0.04				
22.60	11.66	9.65	0.04				
22.65	11.66	9.65	0.04				
22.70	11.67	9.66	0.04				
22.75	11.68	9.67	0.04				
22.80	11.68	9.67	0.04				
22.85	11.69	9.68	0.04				
22.90	11.70	9.69	0.04				
22.95	11.70	9.69	0.04				
23.00	11.71	9.70	0.04				
23.05	11.72	9.71	0.04				
23.10	11.72	9.71	0.04				
23.15	11.73	9.72	0.04				
23.20	11.74	9.72	0.04				
23.25	11.74	9.73	0.04				
23.30	11.75	9.74	0.04				
23.35	11.76	9.74	0.04				

Summary for Subcatchment PDA1B IMP: PDA1B IMP

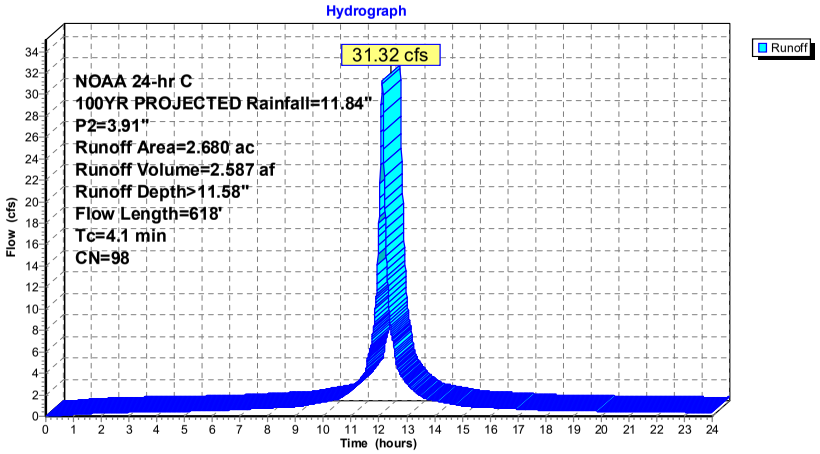
Runoff = 31.32 cfs @ 12.12 hrs, Volume= 2.587 af, Depth>11.58"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"

	Area (ac)	CN	Description
	0.100	96	Gravel surface, HSG A
	0.070	96	Gravel surface, HSG D
*	0.190	98	Impervious vehicular
	2.210	98	Roofs, HSG D
*	0.110	98	Impervious non vehicular, HSG D
	2.680	98	Weighted Average
	0.170		6.34% Pervious Area
	2.510		93.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	8	0.0100	0.70		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.1	16	0.0150	1.84		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.9	93	0.0011	1.71	3.02	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
4.1	618	Total			

Subcatchment PDA1B IMP: PDA1B IMP



Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.36	0.19	0.34
0.05	0.01	0.00	0.00	2.65	0.36	0.20	0.34
0.10	0.02	0.00	0.00	2.70	0.37	0.20	0.34
0.15	0.02	0.00	0.00	2.75	0.38	0.21	0.35
0.20	0.03	0.00	0.00	2.80	0.39	0.22	0.35
0.25	0.03	0.00	0.00	2.85	0.39	0.22	0.36
0.30	0.04	0.00	0.00	2.90	0.40	0.23	0.36
0.35	0.05	0.00	0.00	2.95	0.41	0.24	0.36
0.40	0.05	0.00	0.01	3.00	0.42	0.24	0.36
0.45	0.06	0.00	0.02	3.05	0.43	0.25	0.37
0.50	0.06	0.00	0.03	3.10	0.43	0.26	0.37
0.55	0.07	0.00	0.05	3.15	0.44	0.27	0.37
0.60	0.08	0.01	0.07	3.20	0.45	0.27	0.37
0.65	0.08	0.01	0.08	3.25	0.46	0.28	0.38
0.70	0.09	0.01	0.10	3.30	0.46	0.29	0.38
0.75	0.10	0.01	0.11	3.35	0.47	0.29	0.38
0.80	0.10	0.01	0.12	3.40	0.48	0.30	0.38
0.85	0.11	0.02	0.13	3.45	0.49	0.31	0.39
0.90	0.12	0.02	0.14	3.50	0.50	0.32	0.39
0.95	0.12	0.02	0.15	3.55	0.51	0.32	0.39
1.00	0.13	0.03	0.16	3.60	0.51	0.33	0.40
1.05	0.14	0.03	0.17	3.65	0.52	0.34	0.40
1.10	0.14	0.03	0.18	3.70	0.53	0.34	0.40
1.15	0.15	0.04	0.19	3.75	0.54	0.35	0.40
1.20	0.16	0.04	0.20	3.80	0.55	0.36	0.40
1.25	0.16	0.05	0.21	3.85	0.55	0.37	0.41
1.30	0.17	0.05	0.21	3.90	0.56	0.38	0.41
1.35	0.18	0.05	0.22	3.95	0.57	0.38	0.41
1.40	0.18	0.06	0.23	4.00	0.58	0.39	0.41
1.45	0.19	0.06	0.23	4.05	0.59	0.40	0.42
1.50	0.20	0.07	0.24	4.10	0.60	0.41	0.42
1.55	0.20	0.07	0.25	4.15	0.60	0.41	0.42
1.60	0.21	0.08	0.25	4.20	0.61	0.42	0.42
1.65	0.22	0.08	0.26	4.25	0.62	0.43	0.43
1.70	0.22	0.09	0.26	4.30	0.63	0.44	0.43
1.75	0.23	0.09	0.27	4.35	0.64	0.45	0.43
1.80	0.24	0.10	0.27	4.40	0.65	0.45	0.43
1.85	0.25	0.10	0.28	4.45	0.66	0.46	0.43
1.90	0.25	0.11	0.28	4.50	0.66	0.47	0.44
1.95	0.26	0.11	0.29	4.55	0.67	0.48	0.44
2.00	0.27	0.12	0.29	4.60	0.68	0.49	0.44
2.05	0.27	0.13	0.30	4.65	0.69	0.49	0.44
2.10	0.28	0.13	0.30	4.70	0.70	0.50	0.44
2.15	0.29	0.14	0.31	4.75	0.71	0.51	0.45
2.20	0.30	0.14	0.31	4.80	0.72	0.52	0.45
2.25	0.30	0.15	0.31	4.85	0.73	0.53	0.45
2.30	0.31	0.15	0.32	4.90	0.74	0.54	0.45
2.35	0.32	0.16	0.32	4.95	0.74	0.55	0.45
2.40	0.33	0.17	0.33	5.00	0.75	0.55	0.46
2.45	0.33	0.17	0.33	5.05	0.76	0.56	0.46
2.50	0.34	0.18	0.33	5.10	0.77	0.57	0.46
2.55	0.35	0.19	0.33	5.15	0.78	0.58	0.46

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.79	0.59	0.46	7.80	1.36	1.14	0.72
5.25	0.80	0.60	0.47	7.85	1.38	1.16	0.73
5.30	0.81	0.61	0.47	7.90	1.39	1.17	0.74
5.35	0.82	0.61	0.47	7.95	1.40	1.19	0.74
5.40	0.83	0.62	0.47	8.00	1.42	1.20	0.75
5.45	0.83	0.63	0.47	8.05	1.43	1.21	0.76
5.50	0.84	0.64	0.48	8.10	1.45	1.23	0.76
5.55	0.85	0.65	0.48	8.15	1.46	1.24	0.77
5.60	0.86	0.66	0.48	8.20	1.48	1.26	0.78
5.65	0.87	0.67	0.48	8.25	1.49	1.27	0.78
5.70	0.88	0.68	0.48	8.30	1.51	1.29	0.79
5.75	0.89	0.69	0.49	8.35	1.52	1.30	0.79
5.80	0.90	0.69	0.49	8.40	1.54	1.32	0.80
5.85	0.91	0.70	0.49	8.45	1.55	1.33	0.81
5.90	0.92	0.71	0.49	8.50	1.57	1.35	0.81
5.95	0.93	0.72	0.49	8.55	1.58	1.36	0.82
6.00	0.94	0.73	0.50	8.60	1.60	1.38	0.83
6.05	0.95	0.74	0.50	8.65	1.62	1.39	0.83
6.10	0.96	0.75	0.50	8.70	1.63	1.41	0.84
6.15	0.97	0.76	0.51	8.75	1.65	1.43	0.85
6.20	0.98	0.77	0.52	8.80	1.66	1.44	0.85
6.25	0.99	0.78	0.52	8.85	1.68	1.46	0.86
6.30	1.00	0.79	0.53	8.90	1.70	1.47	0.87
6.35	1.01	0.80	0.54	8.95	1.71	1.49	0.87
6.40	1.02	0.81	0.54	9.00	1.73	1.51	0.88
6.45	1.03	0.82	0.55	9.05	1.75	1.52	0.89
6.50	1.04	0.83	0.56	9.10	1.76	1.54	0.91
6.55	1.05	0.84	0.56	9.15	1.78	1.56	0.93
6.60	1.06	0.85	0.57	9.20	1.80	1.58	0.96
6.65	1.07	0.86	0.57	9.25	1.82	1.60	0.98
6.70	1.09	0.87	0.58	9.30	1.84	1.62	1.00
6.75	1.10	0.88	0.59	9.35	1.86	1.64	1.03
6.80	1.11	0.90	0.59	9.40	1.88	1.66	1.05
6.85	1.12	0.91	0.60	9.45	1.90	1.68	1.07
6.90	1.13	0.92	0.61	9.50	1.92	1.70	1.10
6.95	1.14	0.93	0.61	9.55	1.94	1.72	1.12
7.00	1.15	0.94	0.62	9.60	1.97	1.74	1.15
7.05	1.17	0.95	0.63	9.65	1.99	1.76	1.17
7.10	1.18	0.97	0.63	9.70	2.01	1.79	1.20
7.15	1.19	0.98	0.64	9.75	2.03	1.81	1.22
7.20	1.20	0.99	0.65	9.80	2.06	1.83	1.24
7.25	1.22	1.00	0.65	9.85	2.08	1.86	1.27
7.30	1.23	1.01	0.66	9.90	2.11	1.88	1.29
7.35	1.24	1.03	0.66	9.95	2.13	1.91	1.32
7.40	1.25	1.04	0.67	10.00	2.16	1.93	1.34
7.45	1.27	1.05	0.68	10.05	2.19	1.96	1.36
7.50	1.28	1.06	0.69	10.10	2.21	1.98	1.39
7.55	1.29	1.08	0.69	10.15	2.24	2.01	1.41
7.60	1.31	1.09	0.70	10.20	2.27	2.04	1.44
7.65	1.32	1.10	0.70	10.25	2.29	2.07	1.46
7.70	1.33	1.12	0.71	10.30	2.32	2.09	1.48
7.75	1.35	1.13	0.72	10.35	2.35	2.12	1.51

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	2.38	2.15	1.53	13.00	9.00	8.76	3.06
10.45	2.41	2.18	1.56	13.05	9.05	8.81	2.90
10.50	2.44	2.21	1.58	13.10	9.09	8.85	2.72
10.55	2.47	2.24	1.63	13.15	9.14	8.90	2.59
10.60	2.51	2.28	1.71	13.20	9.18	8.94	2.47
10.65	2.54	2.31	1.79	13.25	9.22	8.98	2.37
10.70	2.58	2.35	1.88	13.30	9.26	9.02	2.27
10.75	2.62	2.39	1.96	13.35	9.30	9.06	2.18
10.80	2.66	2.43	2.06	13.40	9.33	9.09	2.08
10.85	2.70	2.47	2.15	13.45	9.37	9.13	1.99
10.90	2.75	2.52	2.24	13.50	9.40	9.16	1.90
10.95	2.79	2.56	2.33	13.55	9.43	9.19	1.81
11.00	2.84	2.61	2.43	13.60	9.46	9.22	1.72
11.05	2.89	2.66	2.55	13.65	9.49	9.25	1.66
11.10	2.95	2.72	2.70	13.70	9.52	9.28	1.61
11.15	3.01	2.78	2.86	13.75	9.55	9.31	1.58
11.20	3.07	2.84	3.03	13.80	9.57	9.33	1.55
11.25	3.13	2.90	3.19	13.85	9.60	9.36	1.52
11.30	3.20	2.97	3.37	13.90	9.63	9.39	1.50
11.35	3.27	3.04	3.54	13.95	9.65	9.41	1.48
11.40	3.34	3.11	3.71	14.00	9.68	9.44	1.45
11.45	3.42	3.19	3.86	14.05	9.71	9.47	1.43
11.50	3.50	3.27	4.01	14.10	9.73	9.49	1.40
11.55	3.62	3.38	4.59	14.15	9.76	9.52	1.38
11.60	3.74	3.50	5.47	14.20	9.78	9.54	1.36
11.65	3.86	3.63	6.02	14.25	9.81	9.56	1.33
11.70	3.99	3.76	6.40	14.30	9.83	9.59	1.31
11.75	4.16	3.93	7.16	14.35	9.85	9.61	1.28
11.80	4.34	4.10	8.19	14.40	9.87	9.63	1.26
11.85	4.58	4.34	9.53	14.45	9.90	9.66	1.23
11.90	4.82	4.58	11.16	14.50	9.92	9.68	1.21
11.95	5.23	4.99	14.10	14.55	9.94	9.70	1.19
12.00	5.64	5.41	18.02	14.60	9.96	9.72	1.16
12.05	6.33	6.10	23.41	14.65	9.98	9.74	1.14
12.10	7.02	6.79	**30.05**	14.70	10.00	9.76	1.11
12.15	7.26	7.03	**28.27**	14.75	10.02	9.78	1.09
12.20	7.50	7.26	21.18	14.80	10.04	9.80	1.07
12.25	7.68	7.44	16.57	14.85	10.06	9.82	1.04
12.30	7.85	7.61	13.11	14.90	10.08	9.84	1.02
12.35	7.98	7.74	10.62	14.95	10.09	9.85	0.99
12.40	8.10	7.86	8.67	15.00	10.11	9.87	0.97
12.45	8.22	7.98	7.64	15.05	10.13	9.89	0.95
12.50	8.34	8.10	7.01	15.10	10.14	9.90	0.92
12.55	8.42	8.18	6.19	15.15	10.16	9.92	0.91
12.60	8.50	8.26	5.21	15.20	10.18	9.94	0.90
12.65	8.57	8.33	4.64	15.25	10.19	9.95	0.89
12.70	8.64	8.40	4.28	15.30	10.21	9.97	0.88
12.75	8.71	8.47	4.01	15.35	10.22	9.98	0.87
12.80	8.77	8.53	3.78	15.40	10.24	10.00	0.87
12.85	8.83	8.59	3.60	15.45	10.26	10.02	0.86
12.90	8.89	8.65	3.41	15.50	10.27	10.03	0.85
12.95	8.95	8.70	3.24	15.55	10.29	10.05	0.85

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	10.30	10.06	0.84	18.20	10.94	10.70	0.51
15.65	10.32	10.08	0.83	18.25	10.95	10.71	0.51
15.70	10.33	10.09	0.83	18.30	10.96	10.72	0.51
15.75	10.35	10.11	0.82	18.35	10.97	10.73	0.51
15.80	10.36	10.12	0.81	18.40	10.98	10.74	0.51
15.85	10.38	10.14	0.81	18.45	10.99	10.75	0.51
15.90	10.39	10.15	0.80	18.50	11.00	10.75	0.50
15.95	10.41	10.17	0.80	18.55	11.01	10.76	0.50
16.00	10.42	10.18	0.79	18.60	11.01	10.77	0.50
16.05	10.44	10.19	0.78	18.65	11.02	10.78	0.50
16.10	10.45	10.21	0.78	18.70	11.03	10.79	0.50
16.15	10.46	10.22	0.77	18.75	11.04	10.80	0.50
16.20	10.48	10.24	0.76	18.80	11.05	10.81	0.49
16.25	10.49	10.25	0.76	18.85	11.06	10.82	0.49
16.30	10.51	10.26	0.75	18.90	11.07	10.83	0.49
16.35	10.52	10.28	0.74	18.95	11.08	10.84	0.49
16.40	10.53	10.29	0.74	19.00	11.09	10.85	0.49
16.45	10.55	10.30	0.73	19.05	11.10	10.85	0.49
16.50	10.56	10.32	0.72	19.10	11.10	10.86	0.48
16.55	10.57	10.33	0.72	19.15	11.11	10.87	0.48
16.60	10.59	10.34	0.71	19.20	11.12	10.88	0.48
16.65	10.60	10.36	0.71	19.25	11.13	10.89	0.48
16.70	10.61	10.37	0.70	19.30	11.14	10.90	0.48
16.75	10.62	10.38	0.69	19.35	11.15	10.91	0.48
16.80	10.64	10.40	0.69	19.40	11.16	10.92	0.48
16.85	10.65	10.41	0.68	19.45	11.17	10.93	0.47
16.90	10.66	10.42	0.67	19.50	11.18	10.93	0.47
16.95	10.67	10.43	0.67	19.55	11.18	10.94	0.47
17.00	10.69	10.44	0.66	19.60	11.19	10.95	0.47
17.05	10.70	10.46	0.66	19.65	11.20	10.96	0.47
17.10	10.71	10.47	0.65	19.70	11.21	10.97	0.47
17.15	10.72	10.48	0.64	19.75	11.22	10.98	0.46
17.20	10.73	10.49	0.64	19.80	11.23	10.99	0.46
17.25	10.74	10.50	0.63	19.85	11.24	10.99	0.46
17.30	10.75	10.51	0.62	19.90	11.24	11.00	0.46
17.35	10.77	10.53	0.62	19.95	11.25	11.01	0.46
17.40	10.78	10.54	0.61	20.00	11.26	11.02	0.46
17.45	10.79	10.55	0.60	20.05	11.27	11.03	0.45
17.50	10.80	10.56	0.60	20.10	11.28	11.04	0.45
17.55	10.81	10.57	0.59	20.15	11.29	11.04	0.45
17.60	10.82	10.58	0.59	20.20	11.29	11.05	0.45
17.65	10.83	10.59	0.58	20.25	11.30	11.06	0.45
17.70	10.84	10.60	0.57	20.30	11.31	11.07	0.45
17.75	10.85	10.61	0.57	20.35	11.32	11.08	0.44
17.80	10.86	10.62	0.56	20.40	11.33	11.09	0.44
17.85	10.87	10.63	0.55	20.45	11.33	11.09	0.44
17.90	10.88	10.64	0.55	20.50	11.34	11.10	0.44
17.95	10.89	10.65	0.54	20.55	11.35	11.11	0.44
18.00	10.90	10.66	0.53	20.60	11.36	11.12	0.44
18.05	10.91	10.67	0.53	20.65	11.37	11.13	0.44
18.10	10.92	10.68	0.52	20.70	11.38	11.13	0.43
18.15	10.93	10.69	0.52	20.75	11.38	11.14	0.43

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	11.39	11.15	0.43	23.40	11.76	11.52	0.35
20.85	11.40	11.16	0.43	23.45	11.77	11.53	0.35
20.90	11.41	11.17	0.43	23.50	11.78	11.53	0.34
20.95	11.41	11.17	0.43	23.55	11.78	11.54	0.34
21.00	11.42	11.18	0.42	23.60	11.79	11.55	0.34
21.05	11.43	11.19	0.42	23.65	11.79	11.55	0.34
21.10	11.44	11.20	0.42	23.70	11.80	11.56	0.34
21.15	11.45	11.20	0.42	23.75	11.81	11.57	0.34
21.20	11.45	11.21	0.42	23.80	11.81	11.57	0.34
21.25	11.46	11.22	0.42	23.85	11.82	11.58	0.33
21.30	11.47	11.23	0.42	23.90	11.82	11.58	0.33
21.35	11.48	11.23	0.41	23.95	11.83	11.59	0.35
21.40	11.48	11.24	0.41	24.00	**11.84**	**11.60**	0.38
21.45	11.49	11.25	0.41				
21.50	11.50	11.26	0.41				
21.55	11.51	11.26	0.41				
21.60	11.51	11.27	0.40				
21.65	11.52	11.28	0.40				
21.70	11.53	11.29	0.40				
21.75	11.54	11.29	0.40				
21.80	11.54	11.30	0.40				
21.85	11.55	11.31	0.40				
21.90	11.56	11.32	0.40				
21.95	11.57	11.32	0.39				
22.00	11.57	11.33	0.39				
22.05	11.58	11.34	0.39				
22.10	11.59	11.35	0.39				
22.15	11.59	11.35	0.39				
22.20	11.60	11.36	0.39				
22.25	11.61	11.37	0.39				
22.30	11.62	11.37	0.38				
22.35	11.62	11.38	0.38				
22.40	11.63	11.39	0.38				
22.45	11.64	11.39	0.38				
22.50	11.64	11.40	0.38				
22.55	11.65	11.41	0.38				
22.60	11.66	11.42	0.37				
22.65	11.66	11.42	0.37				
22.70	11.67	11.43	0.37				
22.75	11.68	11.44	0.37				
22.80	11.68	11.44	0.37				
22.85	11.69	11.45	0.36				
22.90	11.70	11.46	0.36				
22.95	11.70	11.46	0.36				
23.00	11.71	11.47	0.36				
23.05	11.72	11.48	0.36				
23.10	11.72	11.48	0.36				
23.15	11.73	11.49	0.36				
23.20	11.74	11.50	0.35				
23.25	11.74	11.50	0.35				
23.30	11.75	11.51	0.35				
23.35	11.76	11.51	0.35				

Summary for Subcatchment PDA1B PERV: PDA-1B PERV

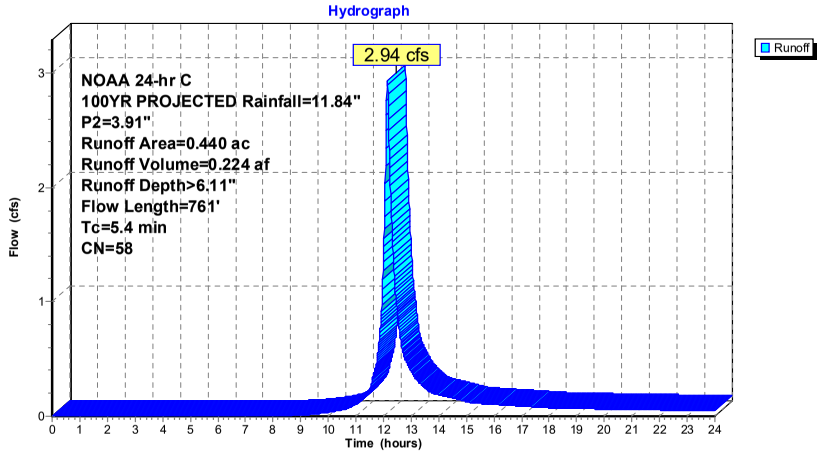
Runoff = 2.94 cfs @ 12.14 hrs, Volume= 0.224 af, Depth> 6.11"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"

	Area (ac)	CN	Description
	0.250	39	>75% Grass cover, Good, HSG A
*	0.190	84	>75% Grass cover, Good, HSG D
	0.440	58	Weighted Average
	0.440		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.4	93	0.0100	1.14		**Sheet Flow, Grass** Smooth surfaces n= 0.011 P2= 3.91"
0.8	74	0.0100	1.50		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.3	93	0.0110	5.40	9.55	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
5.4	761	Total			

Subcatchment PDA1B PERV: PDA-1B PERV



Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.36	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.36	0.00	0.00
0.10	0.02	0.00	0.00	2.70	0.37	0.00	0.00
0.15	0.02	0.00	0.00	2.75	0.38	0.00	0.00
0.20	0.03	0.00	0.00	2.80	0.39	0.00	0.00
0.25	0.03	0.00	0.00	2.85	0.39	0.00	0.00
0.30	0.04	0.00	0.00	2.90	0.40	0.00	0.00
0.35	0.05	0.00	0.00	2.95	0.41	0.00	0.00
0.40	0.05	0.00	0.00	3.00	0.42	0.00	0.00
0.45	0.06	0.00	0.00	3.05	0.43	0.00	0.00
0.50	0.06	0.00	0.00	3.10	0.43	0.00	0.00
0.55	0.07	0.00	0.00	3.15	0.44	0.00	0.00
0.60	0.08	0.00	0.00	3.20	0.45	0.00	0.00
0.65	0.08	0.00	0.00	3.25	0.46	0.00	0.00
0.70	0.09	0.00	0.00	3.30	0.46	0.00	0.00
0.75	0.10	0.00	0.00	3.35	0.47	0.00	0.00
0.80	0.10	0.00	0.00	3.40	0.48	0.00	0.00
0.85	0.11	0.00	0.00	3.45	0.49	0.00	0.00
0.90	0.12	0.00	0.00	3.50	0.50	0.00	0.00
0.95	0.12	0.00	0.00	3.55	0.51	0.00	0.00
1.00	0.13	0.00	0.00	3.60	0.51	0.00	0.00
1.05	0.14	0.00	0.00	3.65	0.52	0.00	0.00
1.10	0.14	0.00	0.00	3.70	0.53	0.00	0.00
1.15	0.15	0.00	0.00	3.75	0.54	0.00	0.00
1.20	0.16	0.00	0.00	3.80	0.55	0.00	0.00
1.25	0.16	0.00	0.00	3.85	0.55	0.00	0.00
1.30	0.17	0.00	0.00	3.90	0.56	0.00	0.00
1.35	0.18	0.00	0.00	3.95	0.57	0.00	0.00
1.40	0.18	0.00	0.00	4.00	0.58	0.00	0.00
1.45	0.19	0.00	0.00	4.05	0.59	0.00	0.00
1.50	0.20	0.00	0.00	4.10	0.60	0.00	0.00
1.55	0.20	0.00	0.00	4.15	0.60	0.00	0.00
1.60	0.21	0.00	0.00	4.20	0.61	0.00	0.00
1.65	0.22	0.00	0.00	4.25	0.62	0.00	0.00
1.70	0.22	0.00	0.00	4.30	0.63	0.00	0.00
1.75	0.23	0.00	0.00	4.35	0.64	0.00	0.00
1.80	0.24	0.00	0.00	4.40	0.65	0.00	0.00
1.85	0.25	0.00	0.00	4.45	0.66	0.00	0.00
1.90	0.25	0.00	0.00	4.50	0.66	0.00	0.00
1.95	0.26	0.00	0.00	4.55	0.67	0.00	0.00
2.00	0.27	0.00	0.00	4.60	0.68	0.00	0.00
2.05	0.27	0.00	0.00	4.65	0.69	0.00	0.00
2.10	0.28	0.00	0.00	4.70	0.70	0.00	0.00
2.15	0.29	0.00	0.00	4.75	0.71	0.00	0.00
2.20	0.30	0.00	0.00	4.80	0.72	0.00	0.00
2.25	0.30	0.00	0.00	4.85	0.73	0.00	0.00
2.30	0.31	0.00	0.00	4.90	0.74	0.00	0.00
2.35	0.32	0.00	0.00	4.95	0.74	0.00	0.00
2.40	0.33	0.00	0.00	5.00	0.75	0.00	0.00
2.45	0.33	0.00	0.00	5.05	0.76	0.00	0.00
2.50	0.34	0.00	0.00	5.10	0.77	0.00	0.00
2.55	0.35	0.00	0.00	5.15	0.78	0.00	0.00

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.79	0.00	0.00	7.80	1.36	0.00	0.00
5.25	0.80	0.00	0.00	7.85	1.38	0.00	0.00
5.30	0.81	0.00	0.00	7.90	1.39	0.00	0.00
5.35	0.82	0.00	0.00	7.95	1.40	0.00	0.00
5.40	0.83	0.00	0.00	8.00	1.42	0.00	0.00
5.45	0.83	0.00	0.00	8.05	1.43	0.00	0.00
5.50	0.84	0.00	0.00	8.10	1.45	0.00	0.00
5.55	0.85	0.00	0.00	8.15	1.46	0.00	0.00
5.60	0.86	0.00	0.00	8.20	1.48	0.00	0.00
5.65	0.87	0.00	0.00	8.25	1.49	0.00	0.00
5.70	0.88	0.00	0.00	8.30	1.51	0.00	0.00
5.75	0.89	0.00	0.00	8.35	1.52	0.00	0.00
5.80	0.90	0.00	0.00	8.40	1.54	0.00	0.00
5.85	0.91	0.00	0.00	8.45	1.55	0.00	0.00
5.90	0.92	0.00	0.00	8.50	1.57	0.00	0.00
5.95	0.93	0.00	0.00	8.55	1.58	0.00	0.00
6.00	0.94	0.00	0.00	8.60	1.60	0.00	0.00
6.05	0.95	0.00	0.00	8.65	1.62	0.00	0.00
6.10	0.96	0.00	0.00	8.70	1.63	0.00	0.01
6.15	0.97	0.00	0.00	8.75	1.65	0.01	0.01
6.20	0.98	0.00	0.00	8.80	1.66	0.01	0.01
6.25	0.99	0.00	0.00	8.85	1.68	0.01	0.01
6.30	1.00	0.00	0.00	8.90	1.70	0.01	0.01
6.35	1.01	0.00	0.00	8.95	1.71	0.01	0.01
6.40	1.02	0.00	0.00	9.00	1.73	0.01	0.01
6.45	1.03	0.00	0.00	9.05	1.75	0.01	0.01
6.50	1.04	0.00	0.00	9.10	1.76	0.01	0.01
6.55	1.05	0.00	0.00	9.15	1.78	0.01	0.01
6.60	1.06	0.00	0.00	9.20	1.80	0.02	0.01
6.65	1.07	0.00	0.00	9.25	1.82	0.02	0.01
6.70	1.09	0.00	0.00	9.30	1.84	0.02	0.01
6.75	1.10	0.00	0.00	9.35	1.86	0.02	0.02
6.80	1.11	0.00	0.00	9.40	1.88	0.02	0.02
6.85	1.12	0.00	0.00	9.45	1.90	0.03	0.02
6.90	1.13	0.00	0.00	9.50	1.92	0.03	0.02
6.95	1.14	0.00	0.00	9.55	1.94	0.03	0.02
7.00	1.15	0.00	0.00	9.60	1.97	0.03	0.02
7.05	1.17	0.00	0.00	9.65	1.99	0.04	0.02
7.10	1.18	0.00	0.00	9.70	2.01	0.04	0.02
7.15	1.19	0.00	0.00	9.75	2.03	0.04	0.03
7.20	1.20	0.00	0.00	9.80	2.06	0.05	0.03
7.25	1.22	0.00	0.00	9.85	2.08	0.05	0.03
7.30	1.23	0.00	0.00	9.90	2.11	0.06	0.03
7.35	1.24	0.00	0.00	9.95	2.13	0.06	0.03
7.40	1.25	0.00	0.00	10.00	2.16	0.06	0.03
7.45	1.27	0.00	0.00	10.05	2.19	0.07	0.04
7.50	1.28	0.00	0.00	10.10	2.21	0.07	0.04
7.55	1.29	0.00	0.00	10.15	2.24	0.08	0.04
7.60	1.31	0.00	0.00	10.20	2.27	0.08	0.04
7.65	1.32	0.00	0.00	10.25	2.29	0.09	0.04
7.70	1.33	0.00	0.00	10.30	2.32	0.09	0.05
7.75	1.35	0.00	0.00	10.35	2.35	0.10	0.05

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	2.38	0.11	0.05	13.00	9.00	3.85	0.39
10.45	2.41	0.11	0.05	13.05	9.05	3.89	0.38
10.50	2.44	0.12	0.05	13.10	9.09	3.93	0.35
10.55	2.47	0.13	0.06	13.15	9.14	3.96	0.34
10.60	2.51	0.14	0.06	13.20	9.18	3.99	0.32
10.65	2.54	0.14	0.07	13.25	9.22	4.02	0.31
10.70	2.58	0.15	0.07	13.30	9.26	4.05	0.29
10.75	2.62	0.16	0.08	13.35	9.30	4.08	0.28
10.80	2.66	0.17	0.08	13.40	9.33	4.11	0.27
10.85	2.70	0.19	0.09	13.45	9.37	4.14	0.26
10.90	2.75	0.20	0.09	13.50	9.40	4.16	0.25
10.95	2.79	0.21	0.10	13.55	9.43	4.18	0.24
11.00	2.84	0.22	0.11	13.60	9.46	4.21	0.23
11.05	2.89	0.24	0.12	13.65	9.49	4.23	0.22
11.10	2.95	0.26	0.13	13.70	9.52	4.25	0.21
11.15	3.01	0.28	0.14	13.75	9.55	4.27	0.20
11.20	3.07	0.30	0.15	13.80	9.57	4.30	0.20
11.25	3.13	0.32	0.16	13.85	9.60	4.32	0.20
11.30	3.20	0.34	0.18	13.90	9.63	4.34	0.19
11.35	3.27	0.37	0.19	13.95	9.65	4.36	0.19
11.40	3.34	0.39	0.21	14.00	9.68	4.38	0.19
11.45	3.42	0.42	0.22	14.05	9.71	4.40	0.18
11.50	3.50	0.45	0.24	14.10	9.73	4.42	0.18
11.55	3.62	0.50	0.27	14.15	9.76	4.44	0.18
11.60	3.74	0.55	0.33	14.20	9.78	4.46	0.18
11.65	3.86	0.60	0.38	14.25	9.81	4.48	0.17
11.70	3.99	0.66	0.42	14.30	9.83	4.50	0.17
11.75	4.16	0.74	0.47	14.35	9.85	4.51	0.17
11.80	4.34	0.82	0.56	14.40	9.87	4.53	0.16
11.85	4.58	0.94	0.67	14.45	9.90	4.55	0.16
11.90	4.82	1.07	0.82	14.50	9.92	4.57	0.16
11.95	5.23	1.30	1.04	14.55	9.94	4.58	0.16
12.00	5.64	1.54	1.42	14.60	9.96	4.60	0.15
12.05	6.33	1.97	1.88	14.65	9.98	4.62	0.15
12.10	7.02	2.43	**2.64**	14.70	10.00	4.63	0.15
12.15	7.26	2.59	**2.90**	14.75	10.02	4.65	0.14
12.20	7.50	2.76	2.41	14.80	10.04	4.66	0.14
12.25	7.68	2.88	2.02	14.85	10.06	4.68	0.14
12.30	7.85	3.00	1.68	14.90	10.08	4.69	0.13
12.35	7.98	3.09	1.42	14.95	10.09	4.70	0.13
12.40	8.10	3.19	1.18	15.00	10.11	4.72	0.13
12.45	8.22	3.27	1.02	15.05	10.13	4.73	0.13
12.50	8.34	3.36	0.92	15.10	10.14	4.74	0.12
12.55	8.42	3.42	0.83	15.15	10.16	4.76	0.12
12.60	8.50	3.48	0.70	15.20	10.18	4.77	0.12
12.65	8.57	3.53	0.62	15.25	10.19	4.78	0.12
12.70	8.64	3.58	0.56	15.30	10.21	4.80	0.12
12.75	8.71	3.63	0.52	15.35	10.22	4.81	0.11
12.80	8.77	3.68	0.49	15.40	10.24	4.82	0.11
12.85	8.83	3.73	0.46	15.45	10.26	4.83	0.11
12.90	8.89	3.77	0.44	15.50	10.27	4.85	0.11
12.95	8.95	3.81	0.42	15.55	10.29	4.86	0.11

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	10.30	4.87	0.11	18.20	10.94	5.38	0.07
15.65	10.32	4.88	0.11	18.25	10.95	5.39	0.07
15.70	10.33	4.90	0.11	18.30	10.96	5.40	0.07
15.75	10.35	4.91	0.11	18.35	10.97	5.41	0.07
15.80	10.36	4.92	0.11	18.40	10.98	5.41	0.07
15.85	10.38	4.93	0.11	18.45	10.99	5.42	0.07
15.90	10.39	4.94	0.11	18.50	11.00	5.43	0.07
15.95	10.41	4.95	0.11	18.55	11.01	5.44	0.07
16.00	10.42	4.97	0.10	18.60	11.01	5.44	0.07
16.05	10.44	4.98	0.10	18.65	11.02	5.45	0.07
16.10	10.45	4.99	0.10	18.70	11.03	5.46	0.07
16.15	10.46	5.00	0.10	18.75	11.04	5.47	0.07
16.20	10.48	5.01	0.10	18.80	11.05	5.47	0.07
16.25	10.49	5.02	0.10	18.85	11.06	5.48	0.07
16.30	10.51	5.03	0.10	18.90	11.07	5.49	0.07
16.35	10.52	5.04	0.10	18.95	11.08	5.50	0.07
16.40	10.53	5.05	0.10	19.00	11.09	5.50	0.07
16.45	10.55	5.07	0.10	19.05	11.10	5.51	0.07
16.50	10.56	5.08	0.10	19.10	11.10	5.52	0.07
16.55	10.57	5.09	0.10	19.15	11.11	5.53	0.06
16.60	10.59	5.10	0.09	19.20	11.12	5.53	0.06
16.65	10.60	5.11	0.09	19.25	11.13	5.54	0.06
16.70	10.61	5.12	0.09	19.30	11.14	5.55	0.06
16.75	10.62	5.13	0.09	19.35	11.15	5.55	0.06
16.80	10.64	5.14	0.09	19.40	11.16	5.56	0.06
16.85	10.65	5.15	0.09	19.45	11.17	5.57	0.06
16.90	10.66	5.16	0.09	19.50	11.18	5.58	0.06
16.95	10.67	5.17	0.09	19.55	11.18	5.58	0.06
17.00	10.69	5.18	0.09	19.60	11.19	5.59	0.06
17.05	10.70	5.19	0.09	19.65	11.20	5.60	0.06
17.10	10.71	5.20	0.09	19.70	11.21	5.60	0.06
17.15	10.72	5.21	0.09	19.75	11.22	5.61	0.06
17.20	10.73	5.22	0.08	19.80	11.23	5.62	0.06
17.25	10.74	5.22	0.08	19.85	11.24	5.63	0.06
17.30	10.75	5.23	0.08	19.90	11.24	5.63	0.06
17.35	10.77	5.24	0.08	19.95	11.25	5.64	0.06
17.40	10.78	5.25	0.08	20.00	11.26	5.65	0.06
17.45	10.79	5.26	0.08	20.05	11.27	5.65	0.06
17.50	10.80	5.27	0.08	20.10	11.28	5.66	0.06
17.55	10.81	5.28	0.08	20.15	11.29	5.67	0.06
17.60	10.82	5.29	0.08	20.20	11.29	5.67	0.06
17.65	10.83	5.30	0.08	20.25	11.30	5.68	0.06
17.70	10.84	5.30	0.08	20.30	11.31	5.69	0.06
17.75	10.85	5.31	0.08	20.35	11.32	5.69	0.06
17.80	10.86	5.32	0.08	20.40	11.33	5.70	0.06
17.85	10.87	5.33	0.07	20.45	11.33	5.71	0.06
17.90	10.88	5.34	0.07	20.50	11.34	5.71	0.06
17.95	10.89	5.35	0.07	20.55	11.35	5.72	0.06
18.00	10.90	5.35	0.07	20.60	11.36	5.73	0.06
18.05	10.91	5.36	0.07	20.65	11.37	5.73	0.06
18.10	10.92	5.37	0.07	20.70	11.38	5.74	0.06
18.15	10.93	5.38	0.07	20.75	11.38	5.75	0.06

Hydrograph for Subcatchment PDA1B PERV: PDA-1B PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	11.39	5.75	0.06	23.40	11.76	6.06	0.05
20.85	11.40	5.76	0.06	23.45	11.77	6.07	0.05
20.90	11.41	5.77	0.06	23.50	11.78	6.07	0.05
20.95	11.41	5.77	0.06	23.55	11.78	6.08	0.05
21.00	11.42	5.78	0.06	23.60	11.79	6.08	0.05
21.05	11.43	5.78	0.06	23.65	11.79	6.09	0.05
21.10	11.44	5.79	0.06	23.70	11.80	6.09	0.05
21.15	11.45	5.80	0.06	23.75	11.81	6.10	0.05
21.20	11.45	5.80	0.06	23.80	11.81	6.10	0.05
21.25	11.46	5.81	0.06	23.85	11.82	6.11	0.05
21.30	11.47	5.82	0.06	23.90	11.82	6.11	0.05
21.35	11.48	5.82	0.06	23.95	11.83	6.12	0.05
21.40	11.48	5.83	0.06	24.00	**11.84**	**6.12**	0.05
21.45	11.49	5.84	0.06				
21.50	11.50	5.84	0.06				
21.55	11.51	5.85	0.06				
21.60	11.51	5.85	0.05				
21.65	11.52	5.86	0.05				
21.70	11.53	5.87	0.05				
21.75	11.54	5.87	0.05				
21.80	11.54	5.88	0.05				
21.85	11.55	5.88	0.05				
21.90	11.56	5.89	0.05				
21.95	11.57	5.90	0.05				
22.00	11.57	5.90	0.05				
22.05	11.58	5.91	0.05				
22.10	11.59	5.91	0.05				
22.15	11.59	5.92	0.05				
22.20	11.60	5.93	0.05				
22.25	11.61	5.93	0.05				
22.30	11.62	5.94	0.05				
22.35	11.62	5.94	0.05				
22.40	11.63	5.95	0.05				
22.45	11.64	5.95	0.05				
22.50	11.64	5.96	0.05				
22.55	11.65	5.97	0.05				
22.60	11.66	5.97	0.05				
22.65	11.66	5.98	0.05				
22.70	11.67	5.98	0.05				
22.75	11.68	5.99	0.05				
22.80	11.68	5.99	0.05				
22.85	11.69	6.00	0.05				
22.90	11.70	6.01	0.05				
22.95	11.70	6.01	0.05				
23.00	11.71	6.02	0.05				
23.05	11.72	6.02	0.05				
23.10	11.72	6.03	0.05				
23.15	11.73	6.03	0.05				
23.20	11.74	6.04	0.05				
23.25	11.74	6.04	0.05				
23.30	11.75	6.05	0.05				
23.35	11.76	6.05	0.05				

Summary for Subcatchment PDA2 IMP: PDA2 IMP

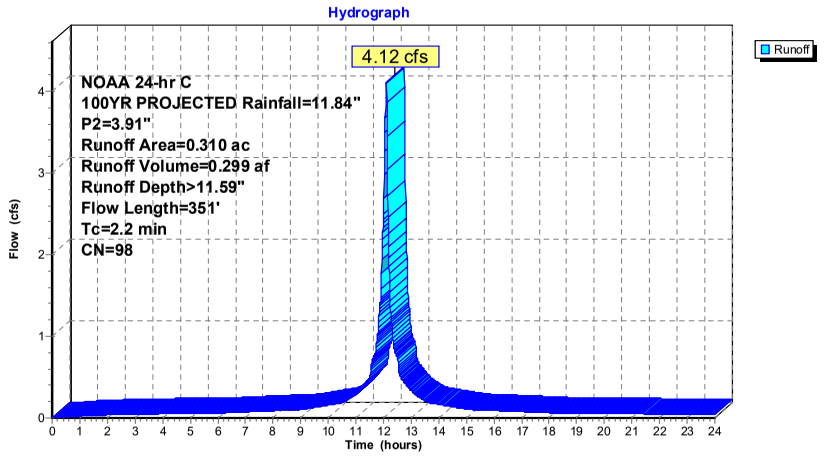
Runoff = 4.12 cfs @ 12.11 hrs, Volume= 0.299 af, Depth>11.59"
Routed to Link P1B : P1B

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"

	Area (ac)	CN	Description
*	0.310	98	Impervious vehicular
	0.310		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	100	0.0180	1.46		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
1.1	251	0.0360	3.85		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
2.2	351	Total			

Subcatchment PDA2 IMP: PDA2 IMP



Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.36	0.19	0.04
0.05	0.01	0.00	0.00	2.65	0.36	0.20	0.04
0.10	0.02	0.00	0.00	2.70	0.37	0.20	0.04
0.15	0.02	0.00	0.00	2.75	0.38	0.21	0.04
0.20	0.03	0.00	0.00	2.80	0.39	0.22	0.04
0.25	0.03	0.00	0.00	2.85	0.39	0.22	0.04
0.30	0.04	0.00	0.00	2.90	0.40	0.23	0.04
0.35	0.05	0.00	0.00	2.95	0.41	0.24	0.04
0.40	0.05	0.00	0.00	3.00	0.42	0.24	0.04
0.45	0.06	0.00	0.00	3.05	0.43	0.25	0.04
0.50	0.06	0.00	0.01	3.10	0.43	0.26	0.04
0.55	0.07	0.00	0.01	3.15	0.44	0.27	0.04
0.60	0.08	0.01	0.01	3.20	0.45	0.27	0.04
0.65	0.08	0.01	0.01	3.25	0.46	0.28	0.04
0.70	0.09	0.01	0.01	3.30	0.46	0.29	0.04
0.75	0.10	0.01	0.01	3.35	0.47	0.29	0.04
0.80	0.10	0.01	0.02	3.40	0.48	0.30	0.04
0.85	0.11	0.02	0.02	3.45	0.49	0.31	0.05
0.90	0.12	0.02	0.02	3.50	0.50	0.32	0.05
0.95	0.12	0.02	0.02	3.55	0.51	0.32	0.05
1.00	0.13	0.03	0.02	3.60	0.51	0.33	0.05
1.05	0.14	0.03	0.02	3.65	0.52	0.34	0.05
1.10	0.14	0.03	0.02	3.70	0.53	0.34	0.05
1.15	0.15	0.04	0.02	3.75	0.54	0.35	0.05
1.20	0.16	0.04	0.02	3.80	0.55	0.36	0.05
1.25	0.16	0.05	0.02	3.85	0.55	0.37	0.05
1.30	0.17	0.05	0.03	3.90	0.56	0.38	0.05
1.35	0.18	0.05	0.03	3.95	0.57	0.38	0.05
1.40	0.18	0.06	0.03	4.00	0.58	0.39	0.05
1.45	0.19	0.06	0.03	4.05	0.59	0.40	0.05
1.50	0.20	0.07	0.03	4.10	0.60	0.41	0.05
1.55	0.20	0.07	0.03	4.15	0.60	0.41	0.05
1.60	0.21	0.08	0.03	4.20	0.61	0.42	0.05
1.65	0.22	0.08	0.03	4.25	0.62	0.43	0.05
1.70	0.22	0.09	0.03	4.30	0.63	0.44	0.05
1.75	0.23	0.09	0.03	4.35	0.64	0.45	0.05
1.80	0.24	0.10	0.03	4.40	0.65	0.45	0.05
1.85	0.25	0.10	0.03	4.45	0.66	0.46	0.05
1.90	0.25	0.11	0.03	4.50	0.66	0.47	0.05
1.95	0.26	0.11	0.03	4.55	0.67	0.48	0.05
2.00	0.27	0.12	0.03	4.60	0.68	0.49	0.05
2.05	0.27	0.13	0.03	4.65	0.69	0.49	0.05
2.10	0.28	0.13	0.04	4.70	0.70	0.50	0.05
2.15	0.29	0.14	0.04	4.75	0.71	0.51	0.05
2.20	0.30	0.14	0.04	4.80	0.72	0.52	0.05
2.25	0.30	0.15	0.04	4.85	0.73	0.53	0.05
2.30	0.31	0.15	0.04	4.90	0.74	0.54	0.05
2.35	0.32	0.16	0.04	4.95	0.74	0.55	0.05
2.40	0.33	0.17	0.04	5.00	0.75	0.55	0.05
2.45	0.33	0.17	0.04	5.05	0.76	0.56	0.05
2.50	0.34	0.18	0.04	5.10	0.77	0.57	0.05
2.55	0.35	0.19	0.04	5.15	0.78	0.58	0.05

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.79	0.59	0.05	7.80	1.36	1.14	0.08
5.25	0.80	0.60	0.05	7.85	1.38	1.16	0.09
5.30	0.81	0.61	0.05	7.90	1.39	1.17	0.09
5.35	0.82	0.61	0.05	7.95	1.40	1.19	0.09
5.40	0.83	0.62	0.05	8.00	1.42	1.20	0.09
5.45	0.83	0.63	0.06	8.05	1.43	1.21	0.09
5.50	0.84	0.64	0.06	8.10	1.45	1.23	0.09
5.55	0.85	0.65	0.06	8.15	1.46	1.24	0.09
5.60	0.86	0.66	0.06	8.20	1.48	1.26	0.09
5.65	0.87	0.67	0.06	8.25	1.49	1.27	0.09
5.70	0.88	0.68	0.06	8.30	1.51	1.29	0.09
5.75	0.89	0.69	0.06	8.35	1.52	1.30	0.09
5.80	0.90	0.69	0.06	8.40	1.54	1.32	0.09
5.85	0.91	0.70	0.06	8.45	1.55	1.33	0.09
5.90	0.92	0.71	0.06	8.50	1.57	1.35	0.09
5.95	0.93	0.72	0.06	8.55	1.58	1.36	0.10
6.00	0.94	0.73	0.06	8.60	1.60	1.38	0.10
6.05	0.95	0.74	0.06	8.65	1.62	1.39	0.10
6.10	0.96	0.75	0.06	8.70	1.63	1.41	0.10
6.15	0.97	0.76	0.06	8.75	1.65	1.43	0.10
6.20	0.98	0.77	0.06	8.80	1.66	1.44	0.10
6.25	0.99	0.78	0.06	8.85	1.68	1.46	0.10
6.30	1.00	0.79	0.06	8.90	1.70	1.47	0.10
6.35	1.01	0.80	0.06	8.95	1.71	1.49	0.10
6.40	1.02	0.81	0.06	9.00	1.73	1.51	0.10
6.45	1.03	0.82	0.06	9.05	1.75	1.52	0.11
6.50	1.04	0.83	0.06	9.10	1.76	1.54	0.11
6.55	1.05	0.84	0.07	9.15	1.78	1.56	0.11
6.60	1.06	0.85	0.07	9.20	1.80	1.58	0.11
6.65	1.07	0.86	0.07	9.25	1.82	1.60	0.12
6.70	1.09	0.87	0.07	9.30	1.84	1.62	0.12
6.75	1.10	0.88	0.07	9.35	1.86	1.64	0.12
6.80	1.11	0.90	0.07	9.40	1.88	1.66	0.12
6.85	1.12	0.91	0.07	9.45	1.90	1.68	0.13
6.90	1.13	0.92	0.07	9.50	1.92	1.70	0.13
6.95	1.14	0.93	0.07	9.55	1.94	1.72	0.13
7.00	1.15	0.94	0.07	9.60	1.97	1.74	0.14
7.05	1.17	0.95	0.07	9.65	1.99	1.76	0.14
7.10	1.18	0.97	0.07	9.70	2.01	1.79	0.14
7.15	1.19	0.98	0.07	9.75	2.03	1.81	0.14
7.20	1.20	0.99	0.08	9.80	2.06	1.83	0.15
7.25	1.22	1.00	0.08	9.85	2.08	1.86	0.15
7.30	1.23	1.01	0.08	9.90	2.11	1.88	0.15
7.35	1.24	1.03	0.08	9.95	2.13	1.91	0.16
7.40	1.25	1.04	0.08	10.00	2.16	1.93	0.16
7.45	1.27	1.05	0.08	10.05	2.19	1.96	0.16
7.50	1.28	1.06	0.08	10.10	2.21	1.98	0.16
7.55	1.29	1.08	0.08	10.15	2.24	2.01	0.17
7.60	1.31	1.09	0.08	10.20	2.27	2.04	0.17
7.65	1.32	1.10	0.08	10.25	2.29	2.07	0.17
7.70	1.33	1.12	0.08	10.30	2.32	2.09	0.17
7.75	1.35	1.13	0.08	10.35	2.35	2.12	0.18

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	2.38	2.15	0.18	13.00	9.00	8.76	0.34
10.45	2.41	2.18	0.18	13.05	9.05	8.81	0.31
10.50	2.44	2.21	0.19	13.10	9.09	8.85	0.30
10.55	2.47	2.24	0.20	13.15	9.14	8.90	0.28
10.60	2.51	2.28	0.20	13.20	9.18	8.94	0.27
10.65	2.54	2.31	0.22	13.25	9.22	8.98	0.26
10.70	2.58	2.35	0.23	13.30	9.26	9.02	0.25
10.75	2.62	2.39	0.24	13.35	9.30	9.06	0.24
10.80	2.66	2.43	0.25	13.40	9.33	9.09	0.23
10.85	2.70	2.47	0.26	13.45	9.37	9.13	0.22
10.90	2.75	2.52	0.27	13.50	9.40	9.16	0.21
10.95	2.79	2.56	0.28	13.55	9.43	9.19	0.20
11.00	2.84	2.61	0.29	13.60	9.46	9.22	0.19
11.05	2.89	2.66	0.31	13.65	9.49	9.25	0.18
11.10	2.95	2.72	0.33	13.70	9.52	9.28	0.18
11.15	3.01	2.78	0.35	13.75	9.55	9.31	0.18
11.20	3.07	2.84	0.37	13.80	9.57	9.33	0.18
11.25	3.13	2.90	0.39	13.85	9.60	9.36	0.17
11.30	3.20	2.97	0.41	13.90	9.63	9.39	0.17
11.35	3.27	3.04	0.43	13.95	9.65	9.41	0.17
11.40	3.34	3.11	0.45	14.00	9.68	9.44	0.17
11.45	3.42	3.19	0.47	14.05	9.71	9.47	0.16
11.50	3.50	3.27	0.48	14.10	9.73	9.49	0.16
11.55	3.62	3.38	0.63	14.15	9.76	9.52	0.16
11.60	3.74	3.50	0.71	14.20	9.78	9.54	0.15
11.65	3.86	3.63	0.76	14.25	9.81	9.56	0.15
11.70	3.99	3.76	0.78	14.30	9.83	9.59	0.15
11.75	4.16	3.93	0.94	14.35	9.85	9.61	0.15
11.80	4.34	4.10	1.04	14.40	9.87	9.63	0.14
11.85	4.58	4.34	1.30	14.45	9.90	9.66	0.14
11.90	4.82	4.58	1.44	14.50	9.92	9.68	0.14
11.95	5.23	4.99	2.08	14.55	9.94	9.70	0.13
12.00	5.64	5.41	2.44	14.60	9.96	9.72	0.13
12.05	6.33	6.10	3.50	14.65	9.98	9.74	0.13
12.10	7.02	6.79	**4.08**	14.70	10.00	9.76	0.13
12.15	7.26	7.03	**2.72**	14.75	10.02	9.78	0.12
12.20	7.50	7.26	1.86	14.80	10.04	9.80	0.12
12.25	7.68	7.44	1.35	14.85	10.06	9.82	0.12
12.30	7.85	7.61	1.15	14.90	10.08	9.84	0.12
12.35	7.98	7.74	0.93	14.95	10.09	9.85	0.11
12.40	8.10	7.86	0.83	15.00	10.11	9.87	0.11
12.45	8.22	7.98	0.77	15.05	10.13	9.89	0.11
12.50	8.34	8.10	0.75	15.10	10.14	9.90	0.10
12.55	8.42	8.18	0.60	15.15	10.16	9.92	0.10
12.60	8.50	8.26	0.52	15.20	10.18	9.94	0.10
12.65	8.57	8.33	0.47	15.25	10.19	9.95	0.10
12.70	8.64	8.40	0.46	15.30	10.21	9.97	0.10
12.75	8.71	8.47	0.43	15.35	10.22	9.98	0.10
12.80	8.77	8.53	0.42	15.40	10.24	10.00	0.10
12.85	8.83	8.59	0.39	15.45	10.26	10.02	0.10
12.90	8.89	8.65	0.38	15.50	10.27	10.03	0.10
12.95	8.95	8.70	0.35	15.55	10.29	10.05	0.10

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	10.30	10.06	0.10	18.20	10.94	10.70	0.06
15.65	10.32	10.08	0.10	18.25	10.95	10.71	0.06
15.70	10.33	10.09	0.09	18.30	10.96	10.72	0.06
15.75	10.35	10.11	0.09	18.35	10.97	10.73	0.06
15.80	10.36	10.12	0.09	18.40	10.98	10.74	0.06
15.85	10.38	10.14	0.09	18.45	10.99	10.75	0.06
15.90	10.39	10.15	0.09	18.50	11.00	10.75	0.06
15.95	10.41	10.17	0.09	18.55	11.01	10.76	0.06
16.00	10.42	10.18	0.09	18.60	11.01	10.77	0.06
16.05	10.44	10.19	0.09	18.65	11.02	10.78	0.06
16.10	10.45	10.21	0.09	18.70	11.03	10.79	0.06
16.15	10.46	10.22	0.09	18.75	11.04	10.80	0.06
16.20	10.48	10.24	0.09	18.80	11.05	10.81	0.06
16.25	10.49	10.25	0.09	18.85	11.06	10.82	0.06
16.30	10.51	10.26	0.09	18.90	11.07	10.83	0.06
16.35	10.52	10.28	0.09	18.95	11.08	10.84	0.06
16.40	10.53	10.29	0.08	19.00	11.09	10.85	0.06
16.45	10.55	10.30	0.08	19.05	11.10	10.85	0.06
16.50	10.56	10.32	0.08	19.10	11.10	10.86	0.06
16.55	10.57	10.33	0.08	19.15	11.11	10.87	0.06
16.60	10.59	10.34	0.08	19.20	11.12	10.88	0.06
16.65	10.60	10.36	0.08	19.25	11.13	10.89	0.06
16.70	10.61	10.37	0.08	19.30	11.14	10.90	0.06
16.75	10.62	10.38	0.08	19.35	11.15	10.91	0.05
16.80	10.64	10.40	0.08	19.40	11.16	10.92	0.05
16.85	10.65	10.41	0.08	19.45	11.17	10.93	0.05
16.90	10.66	10.42	0.08	19.50	11.18	10.93	0.05
16.95	10.67	10.43	0.08	19.55	11.18	10.94	0.05
17.00	10.69	10.44	0.08	19.60	11.19	10.95	0.05
17.05	10.70	10.46	0.08	19.65	11.20	10.96	0.05
17.10	10.71	10.47	0.07	19.70	11.21	10.97	0.05
17.15	10.72	10.48	0.07	19.75	11.22	10.98	0.05
17.20	10.73	10.49	0.07	19.80	11.23	10.99	0.05
17.25	10.74	10.50	0.07	19.85	11.24	10.99	0.05
17.30	10.75	10.51	0.07	19.90	11.24	11.00	0.05
17.35	10.77	10.53	0.07	19.95	11.25	11.01	0.05
17.40	10.78	10.54	0.07	20.00	11.26	11.02	0.05
17.45	10.79	10.55	0.07	20.05	11.27	11.03	0.05
17.50	10.80	10.56	0.07	20.10	11.28	11.04	0.05
17.55	10.81	10.57	0.07	20.15	11.29	11.04	0.05
17.60	10.82	10.58	0.07	20.20	11.29	11.05	0.05
17.65	10.83	10.59	0.07	20.25	11.30	11.06	0.05
17.70	10.84	10.60	0.07	20.30	11.31	11.07	0.05
17.75	10.85	10.61	0.06	20.35	11.32	11.08	0.05
17.80	10.86	10.62	0.06	20.40	11.33	11.09	0.05
17.85	10.87	10.63	0.06	20.45	11.33	11.09	0.05
17.90	10.88	10.64	0.06	20.50	11.34	11.10	0.05
17.95	10.89	10.65	0.06	20.55	11.35	11.11	0.05
18.00	10.90	10.66	0.06	20.60	11.36	11.12	0.05
18.05	10.91	10.67	0.06	20.65	11.37	11.13	0.05
18.10	10.92	10.68	0.06	20.70	11.38	11.13	0.05
18.15	10.93	10.69	0.06	20.75	11.38	11.14	0.05

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	11.39	11.15	0.05	23.40	11.76	11.52	0.04
20.85	11.40	11.16	0.05	23.45	11.77	11.53	0.04
20.90	11.41	11.17	0.05	23.50	11.78	11.53	0.04
20.95	11.41	11.17	0.05	23.55	11.78	11.54	0.04
21.00	11.42	11.18	0.05	23.60	11.79	11.55	0.04
21.05	11.43	11.19	0.05	23.65	11.79	11.55	0.04
21.10	11.44	11.20	0.05	23.70	11.80	11.56	0.04
21.15	11.45	11.20	0.05	23.75	11.81	11.57	0.04
21.20	11.45	11.21	0.05	23.80	11.81	11.57	0.04
21.25	11.46	11.22	0.05	23.85	11.82	11.58	0.04
21.30	11.47	11.23	0.05	23.90	11.82	11.58	0.04
21.35	11.48	11.23	0.05	23.95	11.83	11.59	0.04
21.40	11.48	11.24	0.05	24.00	**11.84**	**11.60**	0.05
21.45	11.49	11.25	0.05				
21.50	11.50	11.26	0.05				
21.55	11.51	11.26	0.05				
21.60	11.51	11.27	0.05				
21.65	11.52	11.28	0.05				
21.70	11.53	11.29	0.05				
21.75	11.54	11.29	0.05				
21.80	11.54	11.30	0.05				
21.85	11.55	11.31	0.05				
21.90	11.56	11.32	0.05				
21.95	11.57	11.32	0.05				
22.00	11.57	11.33	0.05				
22.05	11.58	11.34	0.04				
22.10	11.59	11.35	0.04				
22.15	11.59	11.35	0.04				
22.20	11.60	11.36	0.04				
22.25	11.61	11.37	0.04				
22.30	11.62	11.37	0.04				
22.35	11.62	11.38	0.04				
22.40	11.63	11.39	0.04				
22.45	11.64	11.39	0.04				
22.50	11.64	11.40	0.04				
22.55	11.65	11.41	0.04				
22.60	11.66	11.42	0.04				
22.65	11.66	11.42	0.04				
22.70	11.67	11.43	0.04				
22.75	11.68	11.44	0.04				
22.80	11.68	11.44	0.04				
22.85	11.69	11.45	0.04				
22.90	11.70	11.46	0.04				
22.95	11.70	11.46	0.04				
23.00	11.71	11.47	0.04				
23.05	11.72	11.48	0.04				
23.10	11.72	11.48	0.04				
23.15	11.73	11.49	0.04				
23.20	11.74	11.50	0.04				
23.25	11.74	11.50	0.04				
23.30	11.75	11.51	0.04				
23.35	11.76	11.51	0.04				

Summary for Subcatchment PDA3 IMP: PDA3 IMP

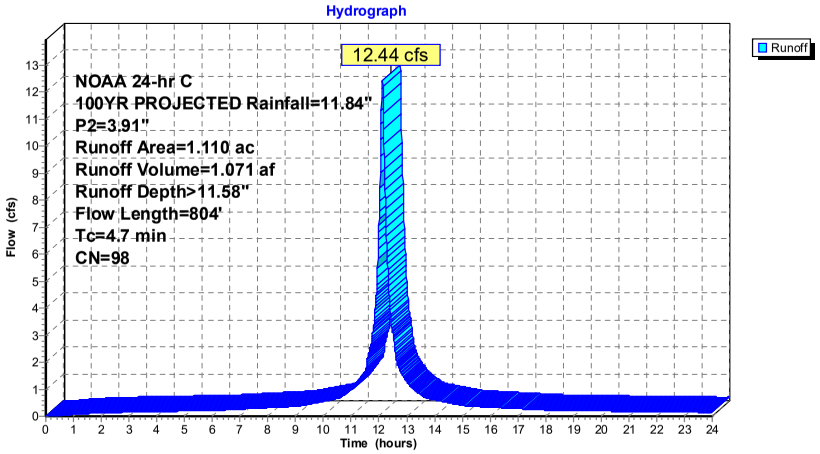
Runoff = 12.44 cfs @ 12.13 hrs, Volume= 1.071 af, Depth>11.58"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"

	Area (ac)	CN	Description
*	0.990	98	Impervious vehicular
*	0.120	98	Impervious non vehicular
	1.110	98	Weighted Average
	1.110		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	100	0.0071	1.00		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.7	172	0.0039	3.90	12.24	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
0.1	27	0.0120	6.84	21.48	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
1.6	439	0.0015	4.45	87.42	**Pipe Channel, RCP_Round 60"** 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.015
4.7	804	Total			

Subcatchment PDA3 IMP: PDA3 IMP



Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.36	0.19	0.14
0.05	0.01	0.00	0.00	2.65	0.36	0.20	0.14
0.10	0.02	0.00	0.00	2.70	0.37	0.20	0.14
0.15	0.02	0.00	0.00	2.75	0.38	0.21	0.14
0.20	0.03	0.00	0.00	2.80	0.39	0.22	0.15
0.25	0.03	0.00	0.00	2.85	0.39	0.22	0.15
0.30	0.04	0.00	0.00	2.90	0.40	0.23	0.15
0.35	0.05	0.00	0.00	2.95	0.41	0.24	0.15
0.40	0.05	0.00	0.00	3.00	0.42	0.24	0.15
0.45	0.06	0.00	0.01	3.05	0.43	0.25	0.15
0.50	0.06	0.00	0.01	3.10	0.43	0.26	0.15
0.55	0.07	0.00	0.02	3.15	0.44	0.27	0.15
0.60	0.08	0.01	0.03	3.20	0.45	0.27	0.15
0.65	0.08	0.01	0.03	3.25	0.46	0.28	0.16
0.70	0.09	0.01	0.04	3.30	0.46	0.29	0.16
0.75	0.10	0.01	0.04	3.35	0.47	0.29	0.16
0.80	0.10	0.01	0.05	3.40	0.48	0.30	0.16
0.85	0.11	0.02	0.05	3.45	0.49	0.31	0.16
0.90	0.12	0.02	0.06	3.50	0.50	0.32	0.16
0.95	0.12	0.02	0.06	3.55	0.51	0.32	0.16
1.00	0.13	0.03	0.07	3.60	0.51	0.33	0.16
1.05	0.14	0.03	0.07	3.65	0.52	0.34	0.16
1.10	0.14	0.03	0.07	3.70	0.53	0.34	0.17
1.15	0.15	0.04	0.08	3.75	0.54	0.35	0.17
1.20	0.16	0.04	0.08	3.80	0.55	0.36	0.17
1.25	0.16	0.05	0.08	3.85	0.55	0.37	0.17
1.30	0.17	0.05	0.09	3.90	0.56	0.38	0.17
1.35	0.18	0.05	0.09	3.95	0.57	0.38	0.17
1.40	0.18	0.06	0.09	4.00	0.58	0.39	0.17
1.45	0.19	0.06	0.10	4.05	0.59	0.40	0.17
1.50	0.20	0.07	0.10	4.10	0.60	0.41	0.17
1.55	0.20	0.07	0.10	4.15	0.60	0.41	0.17
1.60	0.21	0.08	0.10	4.20	0.61	0.42	0.17
1.65	0.22	0.08	0.11	4.25	0.62	0.43	0.18
1.70	0.22	0.09	0.11	4.30	0.63	0.44	0.18
1.75	0.23	0.09	0.11	4.35	0.64	0.45	0.18
1.80	0.24	0.10	0.11	4.40	0.65	0.45	0.18
1.85	0.25	0.10	0.11	4.45	0.66	0.46	0.18
1.90	0.25	0.11	0.12	4.50	0.66	0.47	0.18
1.95	0.26	0.11	0.12	4.55	0.67	0.48	0.18
2.00	0.27	0.12	0.12	4.60	0.68	0.49	0.18
2.05	0.27	0.13	0.12	4.65	0.69	0.49	0.18
2.10	0.28	0.13	0.12	4.70	0.70	0.50	0.18
2.15	0.29	0.14	0.13	4.75	0.71	0.51	0.18
2.20	0.30	0.14	0.13	4.80	0.72	0.52	0.19
2.25	0.30	0.15	0.13	4.85	0.73	0.53	0.19
2.30	0.31	0.15	0.13	4.90	0.74	0.54	0.19
2.35	0.32	0.16	0.13	4.95	0.74	0.55	0.19
2.40	0.33	0.17	0.13	5.00	0.75	0.55	0.19
2.45	0.33	0.17	0.14	5.05	0.76	0.56	0.19
2.50	0.34	0.18	0.14	5.10	0.77	0.57	0.19
2.55	0.35	0.19	0.14	5.15	0.78	0.58	0.19

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.79	0.59	0.19	7.80	1.36	1.14	0.30
5.25	0.80	0.60	0.19	7.85	1.38	1.16	0.30
5.30	0.81	0.61	0.19	7.90	1.39	1.17	0.30
5.35	0.82	0.61	0.19	7.95	1.40	1.19	0.31
5.40	0.83	0.62	0.20	8.00	1.42	1.20	0.31
5.45	0.83	0.63	0.20	8.05	1.43	1.21	0.31
5.50	0.84	0.64	0.20	8.10	1.45	1.23	0.31
5.55	0.85	0.65	0.20	8.15	1.46	1.24	0.32
5.60	0.86	0.66	0.20	8.20	1.48	1.26	0.32
5.65	0.87	0.67	0.20	8.25	1.49	1.27	0.32
5.70	0.88	0.68	0.20	8.30	1.51	1.29	0.33
5.75	0.89	0.69	0.20	8.35	1.52	1.30	0.33
5.80	0.90	0.69	0.20	8.40	1.54	1.32	0.33
5.85	0.91	0.70	0.20	8.45	1.55	1.33	0.33
5.90	0.92	0.71	0.20	8.50	1.57	1.35	0.34
5.95	0.93	0.72	0.20	8.55	1.58	1.36	0.34
6.00	0.94	0.73	0.20	8.60	1.60	1.38	0.34
6.05	0.95	0.74	0.21	8.65	1.62	1.39	0.34
6.10	0.96	0.75	0.21	8.70	1.63	1.41	0.35
6.15	0.97	0.76	0.21	8.75	1.65	1.43	0.35
6.20	0.98	0.77	0.21	8.80	1.66	1.44	0.35
6.25	0.99	0.78	0.22	8.85	1.68	1.46	0.35
6.30	1.00	0.79	0.22	8.90	1.70	1.47	0.36
6.35	1.01	0.80	0.22	8.95	1.71	1.49	0.36
6.40	1.02	0.81	0.22	9.00	1.73	1.51	0.36
6.45	1.03	0.82	0.23	9.05	1.75	1.52	0.37
6.50	1.04	0.83	0.23	9.10	1.76	1.54	0.38
6.55	1.05	0.84	0.23	9.15	1.78	1.56	0.38
6.60	1.06	0.85	0.23	9.20	1.80	1.58	0.39
6.65	1.07	0.86	0.24	9.25	1.82	1.60	0.40
6.70	1.09	0.87	0.24	9.30	1.84	1.62	0.41
6.75	1.10	0.88	0.24	9.35	1.86	1.64	0.42
6.80	1.11	0.90	0.24	9.40	1.88	1.66	0.43
6.85	1.12	0.91	0.25	9.45	1.90	1.68	0.44
6.90	1.13	0.92	0.25	9.50	1.92	1.70	0.45
6.95	1.14	0.93	0.25	9.55	1.94	1.72	0.46
7.00	1.15	0.94	0.26	9.60	1.97	1.74	0.47
7.05	1.17	0.95	0.26	9.65	1.99	1.76	0.48
7.10	1.18	0.97	0.26	9.70	2.01	1.79	0.49
7.15	1.19	0.98	0.26	9.75	2.03	1.81	0.50
7.20	1.20	0.99	0.27	9.80	2.06	1.83	0.51
7.25	1.22	1.00	0.27	9.85	2.08	1.86	0.52
7.30	1.23	1.01	0.27	9.90	2.11	1.88	0.53
7.35	1.24	1.03	0.27	9.95	2.13	1.91	0.54
7.40	1.25	1.04	0.28	10.00	2.16	1.93	0.55
7.45	1.27	1.05	0.28	10.05	2.19	1.96	0.56
7.50	1.28	1.06	0.28	10.10	2.21	1.98	0.57
7.55	1.29	1.08	0.29	10.15	2.24	2.01	0.58
7.60	1.31	1.09	0.29	10.20	2.27	2.04	0.59
7.65	1.32	1.10	0.29	10.25	2.29	2.07	0.60
7.70	1.33	1.12	0.29	10.30	2.32	2.09	0.61
7.75	1.35	1.13	0.30	10.35	2.35	2.12	0.62

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	2.38	2.15	0.63	13.00	9.00	8.76	1.29
10.45	2.41	2.18	0.64	13.05	9.05	8.81	1.22
10.50	2.44	2.21	0.65	13.10	9.09	8.85	1.15
10.55	2.47	2.24	0.67	13.15	9.14	8.90	1.09
10.60	2.51	2.28	0.70	13.20	9.18	8.94	1.04
10.65	2.54	2.31	0.73	13.25	9.22	8.98	1.00
10.70	2.58	2.35	0.77	13.30	9.26	9.02	0.95
10.75	2.62	2.39	0.80	13.35	9.30	9.06	0.92
10.80	2.66	2.43	0.84	13.40	9.33	9.09	0.87
10.85	2.70	2.47	0.88	13.45	9.37	9.13	0.84
10.90	2.75	2.52	0.92	13.50	9.40	9.16	0.80
10.95	2.79	2.56	0.95	13.55	9.43	9.19	0.76
11.00	2.84	2.61	0.99	13.60	9.46	9.22	0.72
11.05	2.89	2.66	1.04	13.65	9.49	9.25	0.70
11.10	2.95	2.72	1.10	13.70	9.52	9.28	0.67
11.15	3.01	2.78	1.16	13.75	9.55	9.31	0.66
11.20	3.07	2.84	1.24	13.80	9.57	9.33	0.65
11.25	3.13	2.90	1.30	13.85	9.60	9.36	0.64
11.30	3.20	2.97	1.37	13.90	9.63	9.39	0.62
11.35	3.27	3.04	1.44	13.95	9.65	9.41	0.61
11.40	3.34	3.11	1.52	14.00	9.68	9.44	0.60
11.45	3.42	3.19	1.58	14.05	9.71	9.47	0.59
11.50	3.50	3.27	1.64	14.10	9.73	9.49	0.58
11.55	3.62	3.38	1.83	14.15	9.76	9.52	0.57
11.60	3.74	3.50	2.19	14.20	9.78	9.54	0.56
11.65	3.86	3.63	2.42	14.25	9.81	9.56	0.55
11.70	3.99	3.76	2.59	14.30	9.83	9.59	0.54
11.75	4.16	3.93	2.86	14.35	9.85	9.61	0.53
11.80	4.34	4.10	3.29	14.40	9.87	9.63	0.52
11.85	4.58	4.34	3.78	14.45	9.90	9.66	0.51
11.90	4.82	4.58	4.46	14.50	9.92	9.68	0.50
11.95	5.23	4.99	5.48	14.55	9.94	9.70	0.50
12.00	5.64	5.41	7.09	14.60	9.96	9.72	0.48
12.05	6.33	6.10	9.03	14.65	9.98	9.74	0.47
12.10	7.02	6.79	**11.77**	14.70	10.00	9.76	0.46
12.15	7.26	7.03	**11.77**	14.75	10.02	9.78	0.46
12.20	7.50	7.26	9.15	14.80	10.04	9.80	0.44
12.25	7.68	7.44	7.33	14.85	10.06	9.82	0.44
12.30	7.85	7.61	5.87	14.90	10.08	9.84	0.42
12.35	7.98	7.74	4.81	14.95	10.09	9.85	0.42
12.40	8.10	7.86	3.91	15.00	10.11	9.87	0.40
12.45	8.22	7.98	3.37	15.05	10.13	9.89	0.40
12.50	8.34	8.10	3.05	15.10	10.14	9.90	0.39
12.55	8.42	8.18	2.71	15.15	10.16	9.92	0.38
12.60	8.50	8.26	2.27	15.20	10.18	9.94	0.37
12.65	8.57	8.33	2.01	15.25	10.19	9.95	0.37
12.70	8.64	8.40	1.83	15.30	10.21	9.97	0.36
12.75	8.71	8.47	1.71	15.35	10.22	9.98	0.36
12.80	8.77	8.53	1.60	15.40	10.24	10.00	0.36
12.85	8.83	8.59	1.52	15.45	10.26	10.02	0.36
12.90	8.89	8.65	1.44	15.50	10.27	10.03	0.35
12.95	8.95	8.70	1.37	15.55	10.29	10.05	0.35

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	10.30	10.06	0.35	18.20	10.94	10.70	0.21
15.65	10.32	10.08	0.35	18.25	10.95	10.71	0.21
15.70	10.33	10.09	0.34	18.30	10.96	10.72	0.21
15.75	10.35	10.11	0.34	18.35	10.97	10.73	0.21
15.80	10.36	10.12	0.34	18.40	10.98	10.74	0.21
15.85	10.38	10.14	0.34	18.45	10.99	10.75	0.21
15.90	10.39	10.15	0.33	18.50	11.00	10.75	0.21
15.95	10.41	10.17	0.33	18.55	11.01	10.76	0.21
16.00	10.42	10.18	0.33	18.60	11.01	10.77	0.21
16.05	10.44	10.19	0.32	18.65	11.02	10.78	0.21
16.10	10.45	10.21	0.32	18.70	11.03	10.79	0.21
16.15	10.46	10.22	0.32	18.75	11.04	10.80	0.21
16.20	10.48	10.24	0.32	18.80	11.05	10.81	0.20
16.25	10.49	10.25	0.31	18.85	11.06	10.82	0.20
16.30	10.51	10.26	0.31	18.90	11.07	10.83	0.20
16.35	10.52	10.28	0.31	18.95	11.08	10.84	0.20
16.40	10.53	10.29	0.31	19.00	11.09	10.85	0.20
16.45	10.55	10.30	0.30	19.05	11.10	10.85	0.20
16.50	10.56	10.32	0.30	19.10	11.10	10.86	0.20
16.55	10.57	10.33	0.30	19.15	11.11	10.87	0.20
16.60	10.59	10.34	0.30	19.20	11.12	10.88	0.20
16.65	10.60	10.36	0.29	19.25	11.13	10.89	0.20
16.70	10.61	10.37	0.29	19.30	11.14	10.90	0.20
16.75	10.62	10.38	0.29	19.35	11.15	10.91	0.20
16.80	10.64	10.40	0.29	19.40	11.16	10.92	0.20
16.85	10.65	10.41	0.28	19.45	11.17	10.93	0.20
16.90	10.66	10.42	0.28	19.50	11.18	10.93	0.20
16.95	10.67	10.43	0.28	19.55	11.18	10.94	0.20
17.00	10.69	10.44	0.28	19.60	11.19	10.95	0.19
17.05	10.70	10.46	0.27	19.65	11.20	10.96	0.19
17.10	10.71	10.47	0.27	19.70	11.21	10.97	0.19
17.15	10.72	10.48	0.27	19.75	11.22	10.98	0.19
17.20	10.73	10.49	0.26	19.80	11.23	10.99	0.19
17.25	10.74	10.50	0.26	19.85	11.24	10.99	0.19
17.30	10.75	10.51	0.26	19.90	11.24	11.00	0.19
17.35	10.77	10.53	0.26	19.95	11.25	11.01	0.19
17.40	10.78	10.54	0.25	20.00	11.26	11.02	0.19
17.45	10.79	10.55	0.25	20.05	11.27	11.03	0.19
17.50	10.80	10.56	0.25	20.10	11.28	11.04	0.19
17.55	10.81	10.57	0.25	20.15	11.29	11.04	0.19
17.60	10.82	10.58	0.24	20.20	11.29	11.05	0.19
17.65	10.83	10.59	0.24	20.25	11.30	11.06	0.19
17.70	10.84	10.60	0.24	20.30	11.31	11.07	0.19
17.75	10.85	10.61	0.24	20.35	11.32	11.08	0.18
17.80	10.86	10.62	0.23	20.40	11.33	11.09	0.18
17.85	10.87	10.63	0.23	20.45	11.33	11.09	0.18
17.90	10.88	10.64	0.23	20.50	11.34	11.10	0.18
17.95	10.89	10.65	0.23	20.55	11.35	11.11	0.18
18.00	10.90	10.66	0.22	20.60	11.36	11.12	0.18
18.05	10.91	10.67	0.22	20.65	11.37	11.13	0.18
18.10	10.92	10.68	0.22	20.70	11.38	11.13	0.18
18.15	10.93	10.69	0.22	20.75	11.38	11.14	0.18

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	11.39	11.15	0.18	23.40	11.76	11.52	0.14
20.85	11.40	11.16	0.18	23.45	11.77	11.53	0.14
20.90	11.41	11.17	0.18	23.50	11.78	11.53	0.14
20.95	11.41	11.17	0.18	23.55	11.78	11.54	0.14
21.00	11.42	11.18	0.18	23.60	11.79	11.55	0.14
21.05	11.43	11.19	0.18	23.65	11.79	11.55	0.14
21.10	11.44	11.20	0.17	23.70	11.80	11.56	0.14
21.15	11.45	11.20	0.17	23.75	11.81	11.57	0.14
21.20	11.45	11.21	0.17	23.80	11.81	11.57	0.14
21.25	11.46	11.22	0.17	23.85	11.82	11.58	0.14
21.30	11.47	11.23	0.17	23.90	11.82	11.58	0.14
21.35	11.48	11.23	0.17	23.95	11.83	11.59	0.14
21.40	11.48	11.24	0.17	24.00	**11.84**	**11.60**	0.15
21.45	11.49	11.25	0.17				
21.50	11.50	11.26	0.17				
21.55	11.51	11.26	0.17				
21.60	11.51	11.27	0.17				
21.65	11.52	11.28	0.17				
21.70	11.53	11.29	0.17				
21.75	11.54	11.29	0.17				
21.80	11.54	11.30	0.17				
21.85	11.55	11.31	0.17				
21.90	11.56	11.32	0.16				
21.95	11.57	11.32	0.16				
22.00	11.57	11.33	0.16				
22.05	11.58	11.34	0.16				
22.10	11.59	11.35	0.16				
22.15	11.59	11.35	0.16				
22.20	11.60	11.36	0.16				
22.25	11.61	11.37	0.16				
22.30	11.62	11.37	0.16				
22.35	11.62	11.38	0.16				
22.40	11.63	11.39	0.16				
22.45	11.64	11.39	0.16				
22.50	11.64	11.40	0.16				
22.55	11.65	11.41	0.16				
22.60	11.66	11.42	0.16				
22.65	11.66	11.42	0.15				
22.70	11.67	11.43	0.15				
22.75	11.68	11.44	0.15				
22.80	11.68	11.44	0.15				
22.85	11.69	11.45	0.15				
22.90	11.70	11.46	0.15				
22.95	11.70	11.46	0.15				
23.00	11.71	11.47	0.15				
23.05	11.72	11.48	0.15				
23.10	11.72	11.48	0.15				
23.15	11.73	11.49	0.15				
23.20	11.74	11.50	0.15				
23.25	11.74	11.50	0.15				
23.30	11.75	11.51	0.15				
23.35	11.76	11.51	0.14				

Summary for Subcatchment PDA3 PERV: PDA3 PERV

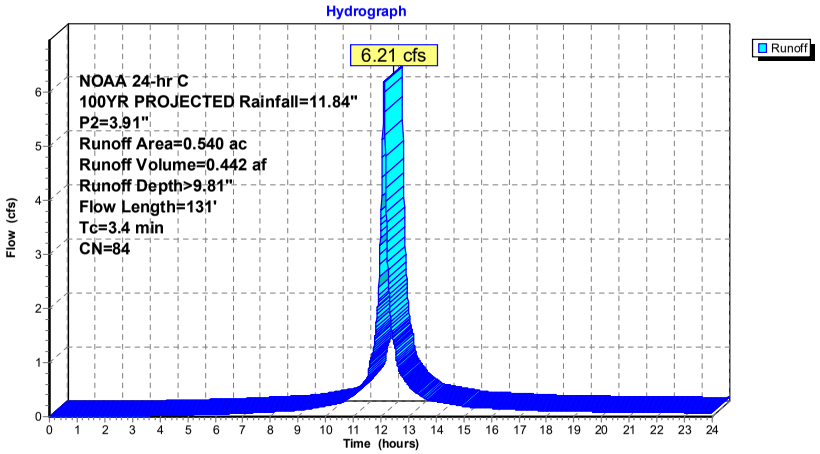
Runoff = 6.21 cfs @ 12.12 hrs, Volume= 0.442 af, Depth> 9.81"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"

	Area (ac)	CN	Description
*	0.540	84	>75% Grass cover, Good, HSG D
	0.540		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.7	23	0.0200	0.14		**Sheet Flow, grass** Grass: Short n= 0.150 P2= 3.91"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.1	42	0.0150	5.59	6.86	**Pipe Channel, RCP_Round 15"** 15.0" Round Area= 1.2 sf Perim= 3.9' r= 0.31' n= 0.015
3.4	131	Total			

Subcatchment PDA3 PERV: PDA3 PERV



Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.36	0.00	0.00
0.05	0.01	0.00	0.00	2.65	0.36	0.00	0.00
0.10	0.02	0.00	0.00	2.70	0.37	0.00	0.00
0.15	0.02	0.00	0.00	2.75	0.38	0.00	0.00
0.20	0.03	0.00	0.00	2.80	0.39	0.00	0.00
0.25	0.03	0.00	0.00	2.85	0.39	0.00	0.00
0.30	0.04	0.00	0.00	2.90	0.40	0.00	0.00
0.35	0.05	0.00	0.00	2.95	0.41	0.00	0.00
0.40	0.05	0.00	0.00	3.00	0.42	0.00	0.00
0.45	0.06	0.00	0.00	3.05	0.43	0.00	0.00
0.50	0.06	0.00	0.00	3.10	0.43	0.00	0.00
0.55	0.07	0.00	0.00	3.15	0.44	0.00	0.00
0.60	0.08	0.00	0.00	3.20	0.45	0.00	0.00
0.65	0.08	0.00	0.00	3.25	0.46	0.00	0.01
0.70	0.09	0.00	0.00	3.30	0.46	0.00	0.01
0.75	0.10	0.00	0.00	3.35	0.47	0.00	0.01
0.80	0.10	0.00	0.00	3.40	0.48	0.00	0.01
0.85	0.11	0.00	0.00	3.45	0.49	0.01	0.01
0.90	0.12	0.00	0.00	3.50	0.50	0.01	0.01
0.95	0.12	0.00	0.00	3.55	0.51	0.01	0.01
1.00	0.13	0.00	0.00	3.60	0.51	0.01	0.01
1.05	0.14	0.00	0.00	3.65	0.52	0.01	0.01
1.10	0.14	0.00	0.00	3.70	0.53	0.01	0.01
1.15	0.15	0.00	0.00	3.75	0.54	0.01	0.01
1.20	0.16	0.00	0.00	3.80	0.55	0.01	0.01
1.25	0.16	0.00	0.00	3.85	0.55	0.01	0.01
1.30	0.17	0.00	0.00	3.90	0.56	0.02	0.01
1.35	0.18	0.00	0.00	3.95	0.57	0.02	0.01
1.40	0.18	0.00	0.00	4.00	0.58	0.02	0.02
1.45	0.19	0.00	0.00	4.05	0.59	0.02	0.02
1.50	0.20	0.00	0.00	4.10	0.60	0.02	0.02
1.55	0.20	0.00	0.00	4.15	0.60	0.02	0.02
1.60	0.21	0.00	0.00	4.20	0.61	0.03	0.02
1.65	0.22	0.00	0.00	4.25	0.62	0.03	0.02
1.70	0.22	0.00	0.00	4.30	0.63	0.03	0.02
1.75	0.23	0.00	0.00	4.35	0.64	0.03	0.02
1.80	0.24	0.00	0.00	4.40	0.65	0.03	0.02
1.85	0.25	0.00	0.00	4.45	0.66	0.03	0.02
1.90	0.25	0.00	0.00	4.50	0.66	0.04	0.02
1.95	0.26	0.00	0.00	4.55	0.67	0.04	0.02
2.00	0.27	0.00	0.00	4.60	0.68	0.04	0.02
2.05	0.27	0.00	0.00	4.65	0.69	0.04	0.02
2.10	0.28	0.00	0.00	4.70	0.70	0.05	0.02
2.15	0.29	0.00	0.00	4.75	0.71	0.05	0.03
2.20	0.30	0.00	0.00	4.80	0.72	0.05	0.03
2.25	0.30	0.00	0.00	4.85	0.73	0.05	0.03
2.30	0.31	0.00	0.00	4.90	0.74	0.06	0.03
2.35	0.32	0.00	0.00	4.95	0.74	0.06	0.03
2.40	0.33	0.00	0.00	5.00	0.75	0.06	0.03
2.45	0.33	0.00	0.00	5.05	0.76	0.06	0.03
2.50	0.34	0.00	0.00	5.10	0.77	0.07	0.03
2.55	0.35	0.00	0.00	5.15	0.78	0.07	0.03

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.79	0.07	0.03	7.80	1.36	0.33	0.08
5.25	0.80	0.07	0.03	7.85	1.38	0.34	0.08
5.30	0.81	0.08	0.03	7.90	1.39	0.35	0.09
5.35	0.82	0.08	0.03	7.95	1.40	0.36	0.09
5.40	0.83	0.08	0.03	8.00	1.42	0.37	0.09
5.45	0.83	0.09	0.03	8.05	1.43	0.37	0.09
5.50	0.84	0.09	0.03	8.10	1.45	0.38	0.09
5.55	0.85	0.09	0.04	8.15	1.46	0.39	0.09
5.60	0.86	0.10	0.04	8.20	1.48	0.40	0.09
5.65	0.87	0.10	0.04	8.25	1.49	0.41	0.10
5.70	0.88	0.10	0.04	8.30	1.51	0.42	0.10
5.75	0.89	0.11	0.04	8.35	1.52	0.43	0.10
5.80	0.90	0.11	0.04	8.40	1.54	0.44	0.10
5.85	0.91	0.11	0.04	8.45	1.55	0.45	0.10
5.90	0.92	0.12	0.04	8.50	1.57	0.46	0.10
5.95	0.93	0.12	0.04	8.55	1.58	0.47	0.10
6.00	0.94	0.13	0.04	8.60	1.60	0.48	0.11
6.05	0.95	0.13	0.04	8.65	1.62	0.49	0.11
6.10	0.96	0.13	0.04	8.70	1.63	0.50	0.11
6.15	0.97	0.14	0.04	8.75	1.65	0.51	0.11
6.20	0.98	0.14	0.04	8.80	1.66	0.52	0.11
6.25	0.99	0.15	0.05	8.85	1.68	0.53	0.11
6.30	1.00	0.15	0.05	8.90	1.70	0.54	0.11
6.35	1.01	0.16	0.05	8.95	1.71	0.55	0.12
6.40	1.02	0.16	0.05	9.00	1.73	0.56	0.12
6.45	1.03	0.16	0.05	9.05	1.75	0.57	0.12
6.50	1.04	0.17	0.05	9.10	1.76	0.58	0.12
6.55	1.05	0.17	0.05	9.15	1.78	0.59	0.13
6.60	1.06	0.18	0.05	9.20	1.80	0.61	0.13
6.65	1.07	0.18	0.05	9.25	1.82	0.62	0.13
6.70	1.09	0.19	0.06	9.30	1.84	0.63	0.14
6.75	1.10	0.20	0.06	9.35	1.86	0.65	0.14
6.80	1.11	0.20	0.06	9.40	1.88	0.66	0.15
6.85	1.12	0.21	0.06	9.45	1.90	0.67	0.15
6.90	1.13	0.21	0.06	9.50	1.92	0.69	0.15
6.95	1.14	0.22	0.06	9.55	1.94	0.70	0.16
7.00	1.15	0.22	0.06	9.60	1.97	0.72	0.16
7.05	1.17	0.23	0.06	9.65	1.99	0.74	0.17
7.10	1.18	0.24	0.07	9.70	2.01	0.75	0.17
7.15	1.19	0.24	0.07	9.75	2.03	0.77	0.18
7.20	1.20	0.25	0.07	9.80	2.06	0.79	0.18
7.25	1.22	0.25	0.07	9.85	2.08	0.80	0.19
7.30	1.23	0.26	0.07	9.90	2.11	0.82	0.19
7.35	1.24	0.27	0.07	9.95	2.13	0.84	0.19
7.40	1.25	0.27	0.07	10.00	2.16	0.86	0.20
7.45	1.27	0.28	0.07	10.05	2.19	0.88	0.20
7.50	1.28	0.29	0.08	10.10	2.21	0.90	0.21
7.55	1.29	0.30	0.08	10.15	2.24	0.92	0.21
7.60	1.31	0.30	0.08	10.20	2.27	0.94	0.22
7.65	1.32	0.31	0.08	10.25	2.29	0.96	0.22
7.70	1.33	0.32	0.08	10.30	2.32	0.98	0.23
7.75	1.35	0.33	0.08	10.35	2.35	1.00	0.23

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	2.38	1.02	0.24	13.00	9.00	7.06	0.59
10.45	2.41	1.05	0.24	13.05	9.05	7.10	0.55
10.50	2.44	1.07	0.25	13.10	9.09	7.15	0.52
10.55	2.47	1.10	0.26	13.15	9.14	7.19	0.49
10.60	2.51	1.12	0.27	13.20	9.18	7.23	0.47
10.65	2.54	1.15	0.29	13.25	9.22	7.27	0.45
10.70	2.58	1.18	0.30	13.30	9.26	7.31	0.44
10.75	2.62	1.21	0.32	13.35	9.30	7.35	0.42
10.80	2.66	1.24	0.33	13.40	9.33	7.38	0.40
10.85	2.70	1.28	0.35	13.45	9.37	7.41	0.38
10.90	2.75	1.31	0.37	13.50	9.40	7.45	0.37
10.95	2.79	1.35	0.38	13.55	9.43	7.48	0.35
11.00	2.84	1.39	0.40	13.60	9.46	7.50	0.33
11.05	2.89	1.43	0.43	13.65	9.49	7.53	0.32
11.10	2.95	1.47	0.45	13.70	9.52	7.56	0.31
11.15	3.01	1.52	0.48	13.75	9.55	7.59	0.31
11.20	3.07	1.57	0.51	13.80	9.57	7.62	0.30
11.25	3.13	1.63	0.54	13.85	9.60	7.64	0.30
11.30	3.20	1.68	0.57	13.90	9.63	7.67	0.29
11.35	3.27	1.74	0.61	13.95	9.65	7.69	0.29
11.40	3.34	1.80	0.64	14.00	9.68	7.72	0.28
11.45	3.42	1.87	0.67	14.05	9.71	7.74	0.28
11.50	3.50	1.94	0.70	14.10	9.73	7.77	0.27
11.55	3.62	2.04	0.83	14.15	9.76	7.79	0.27
11.60	3.74	2.14	0.99	14.20	9.78	7.82	0.26
11.65	3.86	2.25	1.09	14.25	9.81	7.84	0.26
11.70	3.99	2.36	1.15	14.30	9.83	7.86	0.25
11.75	4.16	2.52	1.33	14.35	9.85	7.88	0.25
11.80	4.34	2.67	1.51	14.40	9.87	7.91	0.24
11.85	4.58	2.88	1.81	14.45	9.90	7.93	0.24
11.90	4.82	3.10	2.11	14.50	9.92	7.95	0.24
11.95	5.23	3.48	2.81	14.55	9.94	7.97	0.23
12.00	5.64	3.86	3.54	14.60	9.96	7.99	0.23
12.05	6.33	4.51	4.79	14.65	9.98	8.01	0.22
12.10	7.02	5.16	**6.05**	14.70	10.00	8.03	0.22
12.15	7.26	5.39	**5.21**	14.75	10.02	8.05	0.21
12.20	7.50	5.62	3.77	14.80	10.04	8.07	0.21
12.25	7.68	5.79	2.86	14.85	10.06	8.09	0.20
12.30	7.85	5.95	2.26	14.90	10.08	8.10	0.20
12.35	7.98	6.07	1.83	14.95	10.09	8.12	0.19
12.40	8.10	6.19	1.54	15.00	10.11	8.14	0.19
12.45	8.22	6.31	1.38	15.05	10.13	8.15	0.18
12.50	8.34	6.42	1.31	15.10	10.14	8.17	0.18
12.55	8.42	6.50	1.13	15.15	10.16	8.19	0.18
12.60	8.50	6.57	0.96	15.20	10.18	8.20	0.17
12.65	8.57	6.64	0.86	15.25	10.19	8.22	0.17
12.70	8.64	6.71	0.80	15.30	10.21	8.23	0.17
12.75	8.71	6.78	0.76	15.35	10.22	8.25	0.17
12.80	8.77	6.84	0.72	15.40	10.24	8.26	0.17
12.85	8.83	6.90	0.68	15.45	10.26	8.28	0.17
12.90	8.89	6.95	0.65	15.50	10.27	8.29	0.17
12.95	8.95	7.01	0.62	15.55	10.29	8.31	0.17

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	10.30	8.32	0.16	18.20	10.94	8.95	0.10
15.65	10.32	8.34	0.16	18.25	10.95	8.95	0.10
15.70	10.33	8.35	0.16	18.30	10.96	8.96	0.10
15.75	10.35	8.37	0.16	18.35	10.97	8.97	0.10
15.80	10.36	8.38	0.16	18.40	10.98	8.98	0.10
15.85	10.38	8.40	0.16	18.45	10.99	8.99	0.10
15.90	10.39	8.41	0.16	18.50	11.00	9.00	0.10
15.95	10.41	8.43	0.16	18.55	11.01	9.01	0.10
16.00	10.42	8.44	0.15	18.60	11.01	9.02	0.10
16.05	10.44	8.45	0.15	18.65	11.02	9.03	0.10
16.10	10.45	8.47	0.15	18.70	11.03	9.04	0.10
16.15	10.46	8.48	0.15	18.75	11.04	9.04	0.10
16.20	10.48	8.49	0.15	18.80	11.05	9.05	0.10
16.25	10.49	8.51	0.15	18.85	11.06	9.06	0.10
16.30	10.51	8.52	0.15	18.90	11.07	9.07	0.10
16.35	10.52	8.53	0.15	18.95	11.08	9.08	0.10
16.40	10.53	8.55	0.14	19.00	11.09	9.09	0.10
16.45	10.55	8.56	0.14	19.05	11.10	9.10	0.10
16.50	10.56	8.57	0.14	19.10	11.10	9.11	0.10
16.55	10.57	8.59	0.14	19.15	11.11	9.12	0.10
16.60	10.59	8.60	0.14	19.20	11.12	9.12	0.09
16.65	10.60	8.61	0.14	19.25	11.13	9.13	0.09
16.70	10.61	8.62	0.14	19.30	11.14	9.14	0.09
16.75	10.62	8.64	0.14	19.35	11.15	9.15	0.09
16.80	10.64	8.65	0.13	19.40	11.16	9.16	0.09
16.85	10.65	8.66	0.13	19.45	11.17	9.17	0.09
16.90	10.66	8.67	0.13	19.50	11.18	9.18	0.09
16.95	10.67	8.68	0.13	19.55	11.18	9.18	0.09
17.00	10.69	8.70	0.13	19.60	11.19	9.19	0.09
17.05	10.70	8.71	0.13	19.65	11.20	9.20	0.09
17.10	10.71	8.72	0.13	19.70	11.21	9.21	0.09
17.15	10.72	8.73	0.13	19.75	11.22	9.22	0.09
17.20	10.73	8.74	0.12	19.80	11.23	9.23	0.09
17.25	10.74	8.75	0.12	19.85	11.24	9.23	0.09
17.30	10.75	8.76	0.12	19.90	11.24	9.24	0.09
17.35	10.77	8.78	0.12	19.95	11.25	9.25	0.09
17.40	10.78	8.79	0.12	20.00	11.26	9.26	0.09
17.45	10.79	8.80	0.12	20.05	11.27	9.27	0.09
17.50	10.80	8.81	0.12	20.10	11.28	9.27	0.09
17.55	10.81	8.82	0.12	20.15	11.29	9.28	0.09
17.60	10.82	8.83	0.11	20.20	11.29	9.29	0.09
17.65	10.83	8.84	0.11	20.25	11.30	9.30	0.09
17.70	10.84	8.85	0.11	20.30	11.31	9.31	0.09
17.75	10.85	8.86	0.11	20.35	11.32	9.32	0.09
17.80	10.86	8.87	0.11	20.40	11.33	9.32	0.09
17.85	10.87	8.88	0.11	20.45	11.33	9.33	0.09
17.90	10.88	8.89	0.11	20.50	11.34	9.34	0.09
17.95	10.89	8.90	0.11	20.55	11.35	9.35	0.09
18.00	10.90	8.91	0.10	20.60	11.36	9.35	0.09
18.05	10.91	8.92	0.10	20.65	11.37	9.36	0.09
18.10	10.92	8.93	0.10	20.70	11.38	9.37	0.09
18.15	10.93	8.94	0.10	20.75	11.38	9.38	0.09

Hydrograph for Subcatchment PDA3 PERV: PDA3 PERV (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	11.39	9.39	0.08	23.40	11.76	9.75	0.07
20.85	11.40	9.39	0.08	23.45	11.77	9.76	0.07
20.90	11.41	9.40	0.08	23.50	11.78	9.76	0.07
20.95	11.41	9.41	0.08	23.55	11.78	9.77	0.07
21.00	11.42	9.42	0.08	23.60	11.79	9.77	0.07
21.05	11.43	9.42	0.08	23.65	11.79	9.78	0.07
21.10	11.44	9.43	0.08	23.70	11.80	9.79	0.07
21.15	11.45	9.44	0.08	23.75	11.81	9.79	0.07
21.20	11.45	9.45	0.08	23.80	11.81	9.80	0.07
21.25	11.46	9.45	0.08	23.85	11.82	9.80	0.07
21.30	11.47	9.46	0.08	23.90	11.82	9.81	0.07
21.35	11.48	9.47	0.08	23.95	11.83	9.82	0.07
21.40	11.48	9.48	0.08	24.00	**11.84**	**9.83**	0.08
21.45	11.49	9.48	0.08				
21.50	11.50	9.49	0.08				
21.55	11.51	9.50	0.08				
21.60	11.51	9.51	0.08				
21.65	11.52	9.51	0.08				
21.70	11.53	9.52	0.08				
21.75	11.54	9.53	0.08				
21.80	11.54	9.54	0.08				
21.85	11.55	9.54	0.08				
21.90	11.56	9.55	0.08				
21.95	11.57	9.56	0.08				
22.00	11.57	9.56	0.08				
22.05	11.58	9.57	0.08				
22.10	11.59	9.58	0.08				
22.15	11.59	9.58	0.08				
22.20	11.60	9.59	0.08				
22.25	11.61	9.60	0.08				
22.30	11.62	9.61	0.08				
22.35	11.62	9.61	0.08				
22.40	11.63	9.62	0.07				
22.45	11.64	9.63	0.07				
22.50	11.64	9.63	0.07				
22.55	11.65	9.64	0.07				
22.60	11.66	9.65	0.07				
22.65	11.66	9.65	0.07				
22.70	11.67	9.66	0.07				
22.75	11.68	9.67	0.07				
22.80	11.68	9.67	0.07				
22.85	11.69	9.68	0.07				
22.90	11.70	9.69	0.07				
22.95	11.70	9.69	0.07				
23.00	11.71	9.70	0.07				
23.05	11.72	9.71	0.07				
23.10	11.72	9.71	0.07				
23.15	11.73	9.72	0.07				
23.20	11.74	9.72	0.07				
23.25	11.74	9.73	0.07				
23.30	11.75	9.74	0.07				
23.35	11.76	9.74	0.07				

Summary for Subcatchment PDA4 IMP: PDA4 IMP

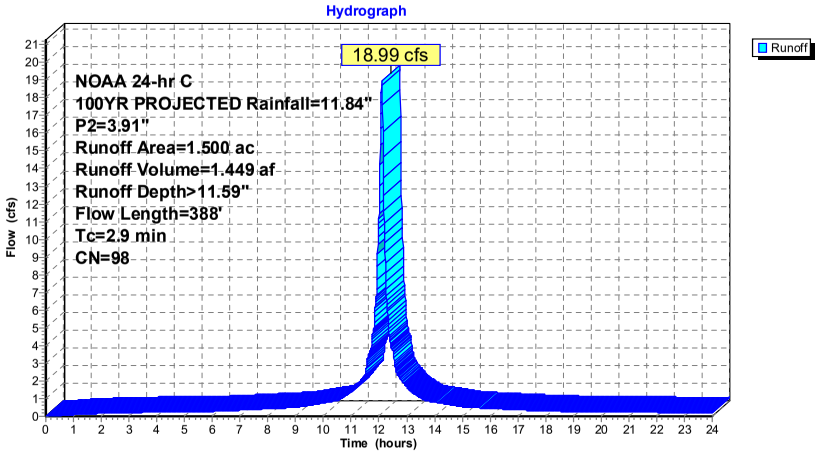
Runoff = 18.99 cfs @ 12.11 hrs, Volume= 1.449 af, Depth>11.59"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NOAA 24-hr C 100YR PROJECTED Rainfall=11.84", P2=3.91"

	Area (ac)	CN	Description
*	1.500	98	Impervious vehicular
	1.500		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0160	1.39		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	88	0.0150	2.49		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.5	100	0.0039	3.22	5.69	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.6	100	0.0020	2.79	8.77	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
2.9	388	Total			

Subcatchment PDA4 IMP: PDA4 IMP



Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	0.36	0.19	0.19
0.05	0.01	0.00	0.00	2.65	0.36	0.20	0.19
0.10	0.02	0.00	0.00	2.70	0.37	0.20	0.19
0.15	0.02	0.00	0.00	2.75	0.38	0.21	0.20
0.20	0.03	0.00	0.00	2.80	0.39	0.22	0.20
0.25	0.03	0.00	0.00	2.85	0.39	0.22	0.20
0.30	0.04	0.00	0.00	2.90	0.40	0.23	0.20
0.35	0.05	0.00	0.00	2.95	0.41	0.24	0.20
0.40	0.05	0.00	0.01	3.00	0.42	0.24	0.20
0.45	0.06	0.00	0.02	3.05	0.43	0.25	0.21
0.50	0.06	0.00	0.02	3.10	0.43	0.26	0.21
0.55	0.07	0.00	0.03	3.15	0.44	0.27	0.21
0.60	0.08	0.01	0.04	3.20	0.45	0.27	0.21
0.65	0.08	0.01	0.05	3.25	0.46	0.28	0.21
0.70	0.09	0.01	0.06	3.30	0.46	0.29	0.21
0.75	0.10	0.01	0.07	3.35	0.47	0.29	0.21
0.80	0.10	0.01	0.07	3.40	0.48	0.30	0.22
0.85	0.11	0.02	0.08	3.45	0.49	0.31	0.22
0.90	0.12	0.02	0.08	3.50	0.50	0.32	0.22
0.95	0.12	0.02	0.09	3.55	0.51	0.32	0.22
1.00	0.13	0.03	0.09	3.60	0.51	0.33	0.22
1.05	0.14	0.03	0.10	3.65	0.52	0.34	0.22
1.10	0.14	0.03	0.11	3.70	0.53	0.34	0.22
1.15	0.15	0.04	0.11	3.75	0.54	0.35	0.23
1.20	0.16	0.04	0.11	3.80	0.55	0.36	0.23
1.25	0.16	0.05	0.12	3.85	0.55	0.37	0.23
1.30	0.17	0.05	0.12	3.90	0.56	0.38	0.23
1.35	0.18	0.05	0.13	3.95	0.57	0.38	0.23
1.40	0.18	0.06	0.13	4.00	0.58	0.39	0.23
1.45	0.19	0.06	0.13	4.05	0.59	0.40	0.23
1.50	0.20	0.07	0.14	4.10	0.60	0.41	0.23
1.55	0.20	0.07	0.14	4.15	0.60	0.41	0.24
1.60	0.21	0.08	0.14	4.20	0.61	0.42	0.24
1.65	0.22	0.08	0.15	4.25	0.62	0.43	0.24
1.70	0.22	0.09	0.15	4.30	0.63	0.44	0.24
1.75	0.23	0.09	0.15	4.35	0.64	0.45	0.24
1.80	0.24	0.10	0.15	4.40	0.65	0.45	0.24
1.85	0.25	0.10	0.16	4.45	0.66	0.46	0.24
1.90	0.25	0.11	0.16	4.50	0.66	0.47	0.24
1.95	0.26	0.11	0.16	4.55	0.67	0.48	0.25
2.00	0.27	0.12	0.17	4.60	0.68	0.49	0.25
2.05	0.27	0.13	0.17	4.65	0.69	0.49	0.25
2.10	0.28	0.13	0.17	4.70	0.70	0.50	0.25
2.15	0.29	0.14	0.17	4.75	0.71	0.51	0.25
2.20	0.30	0.14	0.17	4.80	0.72	0.52	0.25
2.25	0.30	0.15	0.18	4.85	0.73	0.53	0.25
2.30	0.31	0.15	0.18	4.90	0.74	0.54	0.25
2.35	0.32	0.16	0.18	4.95	0.74	0.55	0.26
2.40	0.33	0.17	0.18	5.00	0.75	0.55	0.26
2.45	0.33	0.17	0.18	5.05	0.76	0.56	0.26
2.50	0.34	0.18	0.19	5.10	0.77	0.57	0.26
2.55	0.35	0.19	0.19	5.15	0.78	0.58	0.26

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	0.79	0.59	0.26	7.80	1.36	1.14	0.41
5.25	0.80	0.60	0.26	7.85	1.38	1.16	0.41
5.30	0.81	0.61	0.26	7.90	1.39	1.17	0.41
5.35	0.82	0.61	0.26	7.95	1.40	1.19	0.42
5.40	0.83	0.62	0.26	8.00	1.42	1.20	0.42
5.45	0.83	0.63	0.27	8.05	1.43	1.21	0.43
5.50	0.84	0.64	0.27	8.10	1.45	1.23	0.43
5.55	0.85	0.65	0.27	8.15	1.46	1.24	0.43
5.60	0.86	0.66	0.27	8.20	1.48	1.26	0.44
5.65	0.87	0.67	0.27	8.25	1.49	1.27	0.44
5.70	0.88	0.68	0.27	8.30	1.51	1.29	0.44
5.75	0.89	0.69	0.27	8.35	1.52	1.30	0.45
5.80	0.90	0.69	0.27	8.40	1.54	1.32	0.45
5.85	0.91	0.70	0.27	8.45	1.55	1.33	0.45
5.90	0.92	0.71	0.28	8.50	1.57	1.35	0.46
5.95	0.93	0.72	0.28	8.55	1.58	1.36	0.46
6.00	0.94	0.73	0.28	8.60	1.60	1.38	0.46
6.05	0.95	0.74	0.28	8.65	1.62	1.39	0.47
6.10	0.96	0.75	0.28	8.70	1.63	1.41	0.47
6.15	0.97	0.76	0.29	8.75	1.65	1.43	0.48
6.20	0.98	0.77	0.29	8.80	1.66	1.44	0.48
6.25	0.99	0.78	0.29	8.85	1.68	1.46	0.48
6.30	1.00	0.79	0.30	8.90	1.70	1.47	0.49
6.35	1.01	0.80	0.30	8.95	1.71	1.49	0.49
6.40	1.02	0.81	0.31	9.00	1.73	1.51	0.49
6.45	1.03	0.82	0.31	9.05	1.75	1.52	0.51
6.50	1.04	0.83	0.31	9.10	1.76	1.54	0.52
6.55	1.05	0.84	0.32	9.15	1.78	1.56	0.53
6.60	1.06	0.85	0.32	9.20	1.80	1.58	0.54
6.65	1.07	0.86	0.32	9.25	1.82	1.60	0.56
6.70	1.09	0.87	0.33	9.30	1.84	1.62	0.57
6.75	1.10	0.88	0.33	9.35	1.86	1.64	0.58
6.80	1.11	0.90	0.33	9.40	1.88	1.66	0.60
6.85	1.12	0.91	0.34	9.45	1.90	1.68	0.61
6.90	1.13	0.92	0.34	9.50	1.92	1.70	0.62
6.95	1.14	0.93	0.35	9.55	1.94	1.72	0.64
7.00	1.15	0.94	0.35	9.60	1.97	1.74	0.65
7.05	1.17	0.95	0.35	9.65	1.99	1.76	0.67
7.10	1.18	0.97	0.36	9.70	2.01	1.79	0.68
7.15	1.19	0.98	0.36	9.75	2.03	1.81	0.69
7.20	1.20	0.99	0.36	9.80	2.06	1.83	0.70
7.25	1.22	1.00	0.37	9.85	2.08	1.86	0.72
7.30	1.23	1.01	0.37	9.90	2.11	1.88	0.73
7.35	1.24	1.03	0.37	9.95	2.13	1.91	0.75
7.40	1.25	1.04	0.38	10.00	2.16	1.93	0.76
7.45	1.27	1.05	0.38	10.05	2.19	1.96	0.77
7.50	1.28	1.06	0.39	10.10	2.21	1.98	0.78
7.55	1.29	1.08	0.39	10.15	2.24	2.01	0.80
7.60	1.31	1.09	0.39	10.20	2.27	2.04	0.81
7.65	1.32	1.10	0.40	10.25	2.29	2.07	0.83
7.70	1.33	1.12	0.40	10.30	2.32	2.09	0.84
7.75	1.35	1.13	0.40	10.35	2.35	2.12	0.85

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	2.38	2.15	0.86	13.00	9.00	8.76	1.66
10.45	2.41	2.18	0.88	13.05	9.05	8.81	1.55
10.50	2.44	2.21	0.89	13.10	9.09	8.85	1.47
10.55	2.47	2.24	0.94	13.15	9.14	8.90	1.40
10.60	2.51	2.28	0.98	13.20	9.18	8.94	1.35
10.65	2.54	2.31	1.03	13.25	9.22	8.98	1.29
10.70	2.58	2.35	1.08	13.30	9.26	9.02	1.24
10.75	2.62	2.39	1.14	13.35	9.30	9.06	1.18
10.80	2.66	2.43	1.18	13.40	9.33	9.09	1.14
10.85	2.70	2.47	1.24	13.45	9.37	9.13	1.08
10.90	2.75	2.52	1.28	13.50	9.40	9.16	1.04
10.95	2.79	2.56	1.34	13.55	9.43	9.19	0.98
11.00	2.84	2.61	1.39	13.60	9.46	9.22	0.93
11.05	2.89	2.66	1.48	13.65	9.49	9.25	0.90
11.10	2.95	2.72	1.56	13.70	9.52	9.28	0.89
11.15	3.01	2.78	1.66	13.75	9.55	9.31	0.87
11.20	3.07	2.84	1.75	13.80	9.57	9.33	0.86
11.25	3.13	2.90	1.86	13.85	9.60	9.36	0.84
11.30	3.20	2.97	1.94	13.90	9.63	9.39	0.83
11.35	3.27	3.04	2.05	13.95	9.65	9.41	0.82
11.40	3.34	3.11	2.13	14.00	9.68	9.44	0.80
11.45	3.42	3.19	2.22	14.05	9.71	9.47	0.79
11.50	3.50	3.27	2.29	14.10	9.73	9.49	0.78
11.55	3.62	3.38	2.82	14.15	9.76	9.52	0.76
11.60	3.74	3.50	3.30	14.20	9.78	9.54	0.75
11.65	3.86	3.63	3.57	14.25	9.81	9.56	0.74
11.70	3.99	3.76	3.72	14.30	9.83	9.59	0.72
11.75	4.16	3.93	4.34	14.35	9.85	9.61	0.71
11.80	4.34	4.10	4.87	14.40	9.87	9.63	0.70
11.85	4.58	4.34	5.89	14.45	9.90	9.66	0.68
11.90	4.82	4.58	6.72	14.50	9.92	9.68	0.67
11.95	5.23	4.99	9.14	14.55	9.94	9.70	0.66
12.00	5.64	5.41	11.18	14.60	9.96	9.72	0.64
12.05	6.33	6.10	15.35	14.65	9.98	9.74	0.63
12.10	7.02	6.79	**18.72**	14.70	10.00	9.76	0.62
12.15	7.26	7.03	**14.66**	14.75	10.02	9.78	0.60
12.20	7.50	7.26	10.30	14.80	10.04	9.80	0.59
12.25	7.68	7.44	7.60	14.85	10.06	9.82	0.57
12.30	7.85	7.61	6.07	14.90	10.08	9.84	0.56
12.35	7.98	7.74	4.94	14.95	10.09	9.85	0.55
12.40	8.10	7.86	4.22	15.00	10.11	9.87	0.54
12.45	8.22	7.98	3.88	15.05	10.13	9.89	0.52
12.50	8.34	8.10	3.70	15.10	10.14	9.90	0.51
12.55	8.42	8.18	3.14	15.15	10.16	9.92	0.50
12.60	8.50	8.26	2.65	15.20	10.18	9.94	0.50
12.65	8.57	8.33	2.39	15.25	10.19	9.95	0.49
12.70	8.64	8.40	2.26	15.30	10.21	9.97	0.49
12.75	8.71	8.47	2.13	15.35	10.22	9.98	0.49
12.80	8.77	8.53	2.05	15.40	10.24	10.00	0.48
12.85	8.83	8.59	1.94	15.45	10.26	10.02	0.48
12.90	8.89	8.65	1.86	15.50	10.27	10.03	0.47
12.95	8.95	8.70	1.75	15.55	10.29	10.05	0.47

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	10.30	10.06	0.47	18.20	10.94	10.70	0.29
15.65	10.32	10.08	0.46	18.25	10.95	10.71	0.29
15.70	10.33	10.09	0.46	18.30	10.96	10.72	0.29
15.75	10.35	10.11	0.46	18.35	10.97	10.73	0.28
15.80	10.36	10.12	0.45	18.40	10.98	10.74	0.28
15.85	10.38	10.14	0.45	18.45	10.99	10.75	0.28
15.90	10.39	10.15	0.45	18.50	11.00	10.75	0.28
15.95	10.41	10.17	0.44	18.55	11.01	10.76	0.28
16.00	10.42	10.18	0.44	18.60	11.01	10.77	0.28
16.05	10.44	10.19	0.44	18.65	11.02	10.78	0.28
16.10	10.45	10.21	0.43	18.70	11.03	10.79	0.28
16.15	10.46	10.22	0.43	18.75	11.04	10.80	0.28
16.20	10.48	10.24	0.43	18.80	11.05	10.81	0.28
16.25	10.49	10.25	0.42	18.85	11.06	10.82	0.28
16.30	10.51	10.26	0.42	18.90	11.07	10.83	0.27
16.35	10.52	10.28	0.41	18.95	11.08	10.84	0.27
16.40	10.53	10.29	0.41	19.00	11.09	10.85	0.27
16.45	10.55	10.30	0.41	19.05	11.10	10.85	0.27
16.50	10.56	10.32	0.40	19.10	11.10	10.86	0.27
16.55	10.57	10.33	0.40	19.15	11.11	10.87	0.27
16.60	10.59	10.34	0.40	19.20	11.12	10.88	0.27
16.65	10.60	10.36	0.39	19.25	11.13	10.89	0.27
16.70	10.61	10.37	0.39	19.30	11.14	10.90	0.27
16.75	10.62	10.38	0.39	19.35	11.15	10.91	0.27
16.80	10.64	10.40	0.38	19.40	11.16	10.92	0.27
16.85	10.65	10.41	0.38	19.45	11.17	10.93	0.26
16.90	10.66	10.42	0.38	19.50	11.18	10.93	0.26
16.95	10.67	10.43	0.37	19.55	11.18	10.94	0.26
17.00	10.69	10.44	0.37	19.60	11.19	10.95	0.26
17.05	10.70	10.46	0.36	19.65	11.20	10.96	0.26
17.10	10.71	10.47	0.36	19.70	11.21	10.97	0.26
17.15	10.72	10.48	0.36	19.75	11.22	10.98	0.26
17.20	10.73	10.49	0.35	19.80	11.23	10.99	0.26
17.25	10.74	10.50	0.35	19.85	11.24	10.99	0.26
17.30	10.75	10.51	0.35	19.90	11.24	11.00	0.26
17.35	10.77	10.53	0.34	19.95	11.25	11.01	0.26
17.40	10.78	10.54	0.34	20.00	11.26	11.02	0.25
17.45	10.79	10.55	0.34	20.05	11.27	11.03	0.25
17.50	10.80	10.56	0.33	20.10	11.28	11.04	0.25
17.55	10.81	10.57	0.33	20.15	11.29	11.04	0.25
17.60	10.82	10.58	0.33	20.20	11.29	11.05	0.25
17.65	10.83	10.59	0.32	20.25	11.30	11.06	0.25
17.70	10.84	10.60	0.32	20.30	11.31	11.07	0.25
17.75	10.85	10.61	0.31	20.35	11.32	11.08	0.25
17.80	10.86	10.62	0.31	20.40	11.33	11.09	0.25
17.85	10.87	10.63	0.31	20.45	11.33	11.09	0.25
17.90	10.88	10.64	0.30	20.50	11.34	11.10	0.25
17.95	10.89	10.65	0.30	20.55	11.35	11.11	0.25
18.00	10.90	10.66	0.30	20.60	11.36	11.12	0.25
18.05	10.91	10.67	0.29	20.65	11.37	11.13	0.24
18.10	10.92	10.68	0.29	20.70	11.38	11.13	0.24
18.15	10.93	10.69	0.29	20.75	11.38	11.14	0.24

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP (continued)

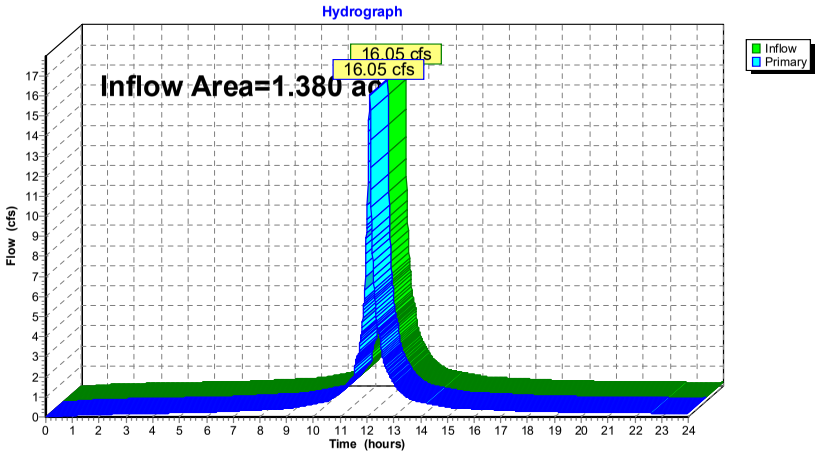
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	11.39	11.15	0.24	23.40	11.76	11.52	0.20
20.85	11.40	11.16	0.24	23.45	11.77	11.53	0.19
20.90	11.41	11.17	0.24	23.50	11.78	11.53	0.19
20.95	11.41	11.17	0.24	23.55	11.78	11.54	0.19
21.00	11.42	11.18	0.24	23.60	11.79	11.55	0.19
21.05	11.43	11.19	0.24	23.65	11.79	11.55	0.19
21.10	11.44	11.20	0.24	23.70	11.80	11.56	0.19
21.15	11.45	11.20	0.23	23.75	11.81	11.57	0.19
21.20	11.45	11.21	0.23	23.80	11.81	11.57	0.19
21.25	11.46	11.22	0.23	23.85	11.82	11.58	0.19
21.30	11.47	11.23	0.23	23.90	11.82	11.58	0.18
21.35	11.48	11.23	0.23	23.95	11.83	11.59	0.20
21.40	11.48	11.24	0.23	24.00	**11.84**	**11.60**	0.22
21.45	11.49	11.25	0.23				
21.50	11.50	11.26	0.23				
21.55	11.51	11.26	0.23				
21.60	11.51	11.27	0.23				
21.65	11.52	11.28	0.23				
21.70	11.53	11.29	0.22				
21.75	11.54	11.29	0.22				
21.80	11.54	11.30	0.22				
21.85	11.55	11.31	0.22				
21.90	11.56	11.32	0.22				
21.95	11.57	11.32	0.22				
22.00	11.57	11.33	0.22				
22.05	11.58	11.34	0.22				
22.10	11.59	11.35	0.22				
22.15	11.59	11.35	0.22				
22.20	11.60	11.36	0.22				
22.25	11.61	11.37	0.22				
22.30	11.62	11.37	0.21				
22.35	11.62	11.38	0.21				
22.40	11.63	11.39	0.21				
22.45	11.64	11.39	0.21				
22.50	11.64	11.40	0.21				
22.55	11.65	11.41	0.21				
22.60	11.66	11.42	0.21				
22.65	11.66	11.42	0.21				
22.70	11.67	11.43	0.21				
22.75	11.68	11.44	0.21				
22.80	11.68	11.44	0.20				
22.85	11.69	11.45	0.20				
22.90	11.70	11.46	0.20				
22.95	11.70	11.46	0.20				
23.00	11.71	11.47	0.20				
23.05	11.72	11.48	0.20				
23.10	11.72	11.48	0.20				
23.15	11.73	11.49	0.20				
23.20	11.74	11.50	0.20				
23.25	11.74	11.50	0.20				
23.30	11.75	11.51	0.20				
23.35	11.76	11.51	0.20				

Summary for Link P1A: P1A

Inflow Area = 1.380 ac, 80.43% Impervious, Inflow Depth > 11.24" for 100YR PROJECTED event
Inflow = 16.05 cfs @ 12.11 hrs, Volume= 1.292 af
Primary = 16.05 cfs @ 12.11 hrs, Volume= 1.292 af, Atten= 0%, Lag= 0.0 min
Routed to Link PPOI-1 : PPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link P1A: P1A



Hydrograph for Link P1A: P1A

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.14	0.00	0.14
0.05	0.00	0.00	0.00	2.65	0.14	0.00	0.14
0.10	0.00	0.00	0.00	2.70	0.14	0.00	0.14
0.15	0.00	0.00	0.00	2.75	0.15	0.00	0.15
0.20	0.00	0.00	0.00	2.80	0.15	0.00	0.15
0.25	0.00	0.00	0.00	2.85	0.15	0.00	0.15
0.30	0.00	0.00	0.00	2.90	0.15	0.00	0.15
0.35	0.00	0.00	0.00	2.95	0.15	0.00	0.15
0.40	0.01	0.00	0.01	3.00	0.15	0.00	0.15
0.45	0.01	0.00	0.01	3.05	0.15	0.00	0.15
0.50	0.02	0.00	0.02	3.10	0.15	0.00	0.15
0.55	0.03	0.00	0.03	3.15	0.16	0.00	0.16
0.60	0.03	0.00	0.03	3.20	0.16	0.00	0.16
0.65	0.04	0.00	0.04	3.25	0.16	0.00	0.16
0.70	0.05	0.00	0.05	3.30	0.16	0.00	0.16
0.75	0.05	0.00	0.05	3.35	0.16	0.00	0.16
0.80	0.05	0.00	0.05	3.40	0.16	0.00	0.16
0.85	0.06	0.00	0.06	3.45	0.16	0.00	0.16
0.90	0.06	0.00	0.06	3.50	0.17	0.00	0.17
0.95	0.07	0.00	0.07	3.55	0.17	0.00	0.17
1.00	0.07	0.00	0.07	3.60	0.17	0.00	0.17
1.05	0.08	0.00	0.08	3.65	0.17	0.00	0.17
1.10	0.08	0.00	0.08	3.70	0.17	0.00	0.17
1.15	0.08	0.00	0.08	3.75	0.17	0.00	0.17
1.20	0.09	0.00	0.09	3.80	0.17	0.00	0.17
1.25	0.09	0.00	0.09	3.85	0.17	0.00	0.17
1.30	0.09	0.00	0.09	3.90	0.18	0.00	0.18
1.35	0.09	0.00	0.09	3.95	0.18	0.00	0.18
1.40	0.10	0.00	0.10	4.00	0.18	0.00	0.18
1.45	0.10	0.00	0.10	4.05	0.18	0.00	0.18
1.50	0.10	0.00	0.10	4.10	0.18	0.00	0.18
1.55	0.11	0.00	0.11	4.15	0.18	0.00	0.18
1.60	0.11	0.00	0.11	4.20	0.18	0.00	0.18
1.65	0.11	0.00	0.11	4.25	0.19	0.00	0.19
1.70	0.11	0.00	0.11	4.30	0.19	0.00	0.19
1.75	0.11	0.00	0.11	4.35	0.19	0.00	0.19
1.80	0.12	0.00	0.12	4.40	0.19	0.00	0.19
1.85	0.12	0.00	0.12	4.45	0.19	0.00	0.19
1.90	0.12	0.00	0.12	4.50	0.19	0.00	0.19
1.95	0.12	0.00	0.12	4.55	0.19	0.00	0.19
2.00	0.12	0.00	0.12	4.60	0.19	0.00	0.19
2.05	0.12	0.00	0.12	4.65	0.19	0.00	0.19
2.10	0.13	0.00	0.13	4.70	0.20	0.00	0.20
2.15	0.13	0.00	0.13	4.75	0.20	0.00	0.20
2.20	0.13	0.00	0.13	4.80	0.20	0.00	0.20
2.25	0.13	0.00	0.13	4.85	0.20	0.00	0.20
2.30	0.13	0.00	0.13	4.90	0.20	0.00	0.20
2.35	0.13	0.00	0.13	4.95	0.20	0.00	0.20
2.40	0.14	0.00	0.14	5.00	0.20	0.00	0.20
2.45	0.14	0.00	0.14	5.05	0.20	0.00	0.20
2.50	0.14	0.00	0.14	5.10	0.20	0.00	0.20
2.55	0.14	0.00	0.14	5.15	0.21	0.00	0.21

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.21	0.00	0.21	7.80	0.34	0.00	0.34
5.25	0.21	0.00	0.21	7.85	0.34	0.00	0.34
5.30	0.21	0.00	0.21	7.90	0.35	0.00	0.35
5.35	0.21	0.00	0.21	7.95	0.35	0.00	0.35
5.40	0.21	0.00	0.21	8.00	0.35	0.00	0.35
5.45	0.21	0.00	0.21	8.05	0.36	0.00	0.36
5.50	0.21	0.00	0.21	8.10	0.36	0.00	0.36
5.55	0.21	0.00	0.21	8.15	0.36	0.00	0.36
5.60	0.22	0.00	0.22	8.20	0.37	0.00	0.37
5.65	0.22	0.00	0.22	8.25	0.37	0.00	0.37
5.70	0.22	0.00	0.22	8.30	0.37	0.00	0.37
5.75	0.22	0.00	0.22	8.35	0.38	0.00	0.38
5.80	0.22	0.00	0.22	8.40	0.38	0.00	0.38
5.85	0.22	0.00	0.22	8.45	0.38	0.00	0.38
5.90	0.22	0.00	0.22	8.50	0.39	0.00	0.39
5.95	0.22	0.00	0.22	8.55	0.39	0.00	0.39
6.00	0.22	0.00	0.22	8.60	0.39	0.00	0.39
6.05	0.23	0.00	0.23	8.65	0.40	0.00	0.40
6.10	0.23	0.00	0.23	8.70	0.40	0.00	0.40
6.15	0.23	0.00	0.23	8.75	0.40	0.00	0.40
6.20	0.24	0.00	0.24	8.80	0.41	0.00	0.41
6.25	0.24	0.00	0.24	8.85	0.41	0.00	0.41
6.30	0.24	0.00	0.24	8.90	0.41	0.00	0.41
6.35	0.25	0.00	0.25	8.95	0.42	0.00	0.42
6.40	0.25	0.00	0.25	9.00	0.42	0.00	0.42
6.45	0.25	0.00	0.25	9.05	0.43	0.00	0.43
6.50	0.26	0.00	0.26	9.10	0.44	0.00	0.44
6.55	0.26	0.00	0.26	9.15	0.45	0.00	0.45
6.60	0.26	0.00	0.26	9.20	0.46	0.00	0.46
6.65	0.27	0.00	0.27	9.25	0.48	0.00	0.48
6.70	0.27	0.00	0.27	9.30	0.49	0.00	0.49
6.75	0.27	0.00	0.27	9.35	0.50	0.00	0.50
6.80	0.27	0.00	0.27	9.40	0.51	0.00	0.51
6.85	0.28	0.00	0.28	9.45	0.52	0.00	0.52
6.90	0.28	0.00	0.28	9.50	0.53	0.00	0.53
6.95	0.28	0.00	0.28	9.55	0.55	0.00	0.55
7.00	0.29	0.00	0.29	9.60	0.56	0.00	0.56
7.05	0.29	0.00	0.29	9.65	0.57	0.00	0.57
7.10	0.29	0.00	0.29	9.70	0.58	0.00	0.58
7.15	0.30	0.00	0.30	9.75	0.59	0.00	0.59
7.20	0.30	0.00	0.30	9.80	0.60	0.00	0.60
7.25	0.30	0.00	0.30	9.85	0.62	0.00	0.62
7.30	0.31	0.00	0.31	9.90	0.63	0.00	0.63
7.35	0.31	0.00	0.31	9.95	0.64	0.00	0.64
7.40	0.31	0.00	0.31	10.00	0.65	0.00	0.65
7.45	0.32	0.00	0.32	10.05	0.67	0.00	0.67
7.50	0.32	0.00	0.32	10.10	0.68	0.00	0.68
7.55	0.32	0.00	0.32	10.15	0.69	0.00	0.69
7.60	0.33	0.00	0.33	10.20	0.70	0.00	0.70
7.65	0.33	0.00	0.33	10.25	0.72	0.00	0.72
7.70	0.33	0.00	0.33	10.30	0.72	0.00	0.72
7.75	0.34	0.00	0.34	10.35	0.74	0.00	0.74

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.75	0.00	0.75	13.00	1.70	0.00	1.70
10.45	0.76	0.00	0.76	13.05	1.56	0.00	1.56
10.50	0.77	0.00	0.77	13.10	1.48	0.00	1.48
10.55	0.82	0.00	0.82	13.15	1.39	0.00	1.39
10.60	0.85	0.00	0.85	13.20	1.34	0.00	1.34
10.65	0.90	0.00	0.90	13.25	1.26	0.00	1.26
10.70	0.93	0.00	0.93	13.30	1.22	0.00	1.22
10.75	0.99	0.00	0.99	13.35	1.15	0.00	1.15
10.80	1.02	0.00	1.02	13.40	1.11	0.00	1.11
10.85	1.07	0.00	1.07	13.45	1.04	0.00	1.04
10.90	1.11	0.00	1.11	13.50	1.00	0.00	1.00
10.95	1.16	0.00	1.16	13.55	0.94	0.00	0.94
11.00	1.20	0.00	1.20	13.60	0.90	0.00	0.90
11.05	1.29	0.00	1.29	13.65	0.87	0.00	0.87
11.10	1.35	0.00	1.35	13.70	0.85	0.00	0.85
11.15	1.45	0.00	1.45	13.75	0.83	0.00	0.83
11.20	1.51	0.00	1.51	13.80	0.81	0.00	0.81
11.25	1.61	0.00	1.61	13.85	0.80	0.00	0.80
11.30	1.67	0.00	1.67	13.90	0.78	0.00	0.78
11.35	1.78	0.00	1.78	13.95	0.77	0.00	0.77
11.40	1.84	0.00	1.84	14.00	0.75	0.00	0.75
11.45	1.93	0.00	1.93	14.05	0.74	0.00	0.74
11.50	1.98	0.00	1.98	14.10	0.73	0.00	0.73
11.55	2.53	0.00	2.53	14.15	0.71	0.00	0.71
11.60	2.86	0.00	2.86	14.20	0.70	0.00	0.70
11.65	3.07	0.00	3.07	14.25	0.68	0.00	0.68
11.70	3.18	0.00	3.18	14.30	0.67	0.00	0.67
11.75	3.81	0.00	3.81	14.35	0.66	0.00	0.66
11.80	4.19	0.00	4.19	14.40	0.65	0.00	0.65
11.85	5.18	0.00	5.18	14.45	0.63	0.00	0.63
11.90	5.76	0.00	5.76	14.50	0.62	0.00	0.62
11.95	8.15	0.00	8.15	14.55	0.61	0.00	0.61
12.00	9.56	0.00	9.56	14.60	0.60	0.00	0.60
12.05	13.55	0.00	13.55	14.65	0.58	0.00	0.58
12.10	**15.90**	0.00	**15.90**	14.70	0.57	0.00	0.57
12.15	**11.32**	0.00	**11.32**	14.75	0.56	0.00	0.56
12.20	8.45	0.00	8.45	14.80	0.55	0.00	0.55
12.25	6.65	0.00	6.65	14.85	0.53	0.00	0.53
12.30	5.83	0.00	5.83	14.90	0.52	0.00	0.52
12.35	4.92	0.00	4.92	14.95	0.51	0.00	0.51
12.40	4.42	0.00	4.42	15.00	0.50	0.00	0.50
12.45	4.11	0.00	4.11	15.05	0.49	0.00	0.49
12.50	3.92	0.00	3.92	15.10	0.48	0.00	0.48
12.55	3.28	0.00	3.28	15.15	0.47	0.00	0.47
12.60	2.88	0.00	2.88	15.20	0.46	0.00	0.46
12.65	2.62	0.00	2.62	15.25	0.46	0.00	0.46
12.70	2.48	0.00	2.48	15.30	0.45	0.00	0.45
12.75	2.30	0.00	2.30	15.35	0.45	0.00	0.45
12.80	2.19	0.00	2.19	15.40	0.45	0.00	0.45
12.85	2.03	0.00	2.03	15.45	0.44	0.00	0.44
12.90	1.93	0.00	1.93	15.50	0.44	0.00	0.44
12.95	1.79	0.00	1.79	15.55	0.44	0.00	0.44

Hydrograph for Link P1A: P1A (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.43	0.00	0.43	18.20	0.27	0.00	0.27
15.65	0.43	0.00	0.43	18.25	0.26	0.00	0.26
15.70	0.42	0.00	0.42	18.30	0.26	0.00	0.26
15.75	0.42	0.00	0.42	18.35	0.26	0.00	0.26
15.80	0.42	0.00	0.42	18.40	0.26	0.00	0.26
15.85	0.41	0.00	0.41	18.45	0.26	0.00	0.26
15.90	0.41	0.00	0.41	18.50	0.26	0.00	0.26
15.95	0.41	0.00	0.41	18.55	0.26	0.00	0.26
16.00	0.40	0.00	0.40	18.60	0.26	0.00	0.26
16.05	0.40	0.00	0.40	18.65	0.26	0.00	0.26
16.10	0.40	0.00	0.40	18.70	0.26	0.00	0.26
16.15	0.40	0.00	0.40	18.75	0.25	0.00	0.25
16.20	0.39	0.00	0.39	18.80	0.25	0.00	0.25
16.25	0.39	0.00	0.39	18.85	0.25	0.00	0.25
16.30	0.39	0.00	0.39	18.90	0.25	0.00	0.25
16.35	0.38	0.00	0.38	18.95	0.25	0.00	0.25
16.40	0.38	0.00	0.38	19.00	0.25	0.00	0.25
16.45	0.37	0.00	0.37	19.05	0.25	0.00	0.25
16.50	0.37	0.00	0.37	19.10	0.25	0.00	0.25
16.55	0.37	0.00	0.37	19.15	0.25	0.00	0.25
16.60	0.37	0.00	0.37	19.20	0.25	0.00	0.25
16.65	0.36	0.00	0.36	19.25	0.25	0.00	0.25
16.70	0.36	0.00	0.36	19.30	0.25	0.00	0.25
16.75	0.36	0.00	0.36	19.35	0.24	0.00	0.24
16.80	0.35	0.00	0.35	19.40	0.24	0.00	0.24
16.85	0.35	0.00	0.35	19.45	0.24	0.00	0.24
16.90	0.35	0.00	0.35	19.50	0.24	0.00	0.24
16.95	0.34	0.00	0.34	19.55	0.24	0.00	0.24
17.00	0.34	0.00	0.34	19.60	0.24	0.00	0.24
17.05	0.34	0.00	0.34	19.65	0.24	0.00	0.24
17.10	0.33	0.00	0.33	19.70	0.24	0.00	0.24
17.15	0.33	0.00	0.33	19.75	0.24	0.00	0.24
17.20	0.33	0.00	0.33	19.80	0.24	0.00	0.24
17.25	0.32	0.00	0.32	19.85	0.24	0.00	0.24
17.30	0.32	0.00	0.32	19.90	0.24	0.00	0.24
17.35	0.32	0.00	0.32	19.95	0.23	0.00	0.23
17.40	0.31	0.00	0.31	20.00	0.23	0.00	0.23
17.45	0.31	0.00	0.31	20.05	0.23	0.00	0.23
17.50	0.31	0.00	0.31	20.10	0.23	0.00	0.23
17.55	0.30	0.00	0.30	20.15	0.23	0.00	0.23
17.60	0.30	0.00	0.30	20.20	0.23	0.00	0.23
17.65	0.30	0.00	0.30	20.25	0.23	0.00	0.23
17.70	0.29	0.00	0.29	20.30	0.23	0.00	0.23
17.75	0.29	0.00	0.29	20.35	0.23	0.00	0.23
17.80	0.29	0.00	0.29	20.40	0.23	0.00	0.23
17.85	0.28	0.00	0.28	20.45	0.23	0.00	0.23
17.90	0.28	0.00	0.28	20.50	0.23	0.00	0.23
17.95	0.28	0.00	0.28	20.55	0.23	0.00	0.23
18.00	0.27	0.00	0.27	20.60	0.23	0.00	0.23
18.05	0.27	0.00	0.27	20.65	0.22	0.00	0.22
18.10	0.27	0.00	0.27	20.70	0.22	0.00	0.22
18.15	0.27	0.00	0.27	20.75	0.22	0.00	0.22

Hydrograph for Link P1A: P1A (continued)

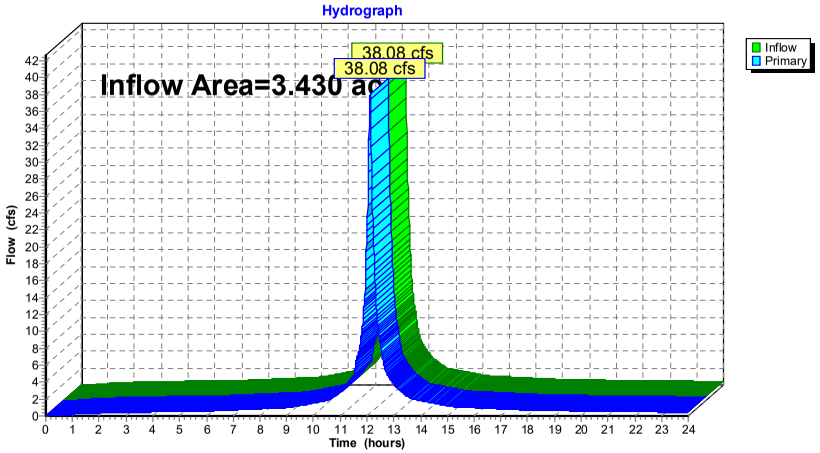
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.22	0.00	0.22	23.40	0.18	0.00	0.18
20.85	0.22	0.00	0.22	23.45	0.18	0.00	0.18
20.90	0.22	0.00	0.22	23.50	0.18	0.00	0.18
20.95	0.22	0.00	0.22	23.55	0.18	0.00	0.18
21.00	0.22	0.00	0.22	23.60	0.18	0.00	0.18
21.05	0.22	0.00	0.22	23.65	0.17	0.00	0.17
21.10	0.22	0.00	0.22	23.70	0.17	0.00	0.17
21.15	0.21	0.00	0.21	23.75	0.17	0.00	0.17
21.20	0.21	0.00	0.21	23.80	0.17	0.00	0.17
21.25	0.21	0.00	0.21	23.85	0.17	0.00	0.17
21.30	0.21	0.00	0.21	23.90	0.17	0.00	0.17
21.35	0.21	0.00	0.21	23.95	0.19	0.00	0.19
21.40	0.21	0.00	0.21	24.00	0.20	0.00	0.20
21.45	0.21	0.00	0.21				
21.50	0.21	0.00	0.21				
21.55	0.21	0.00	0.21				
21.60	0.21	0.00	0.21				
21.65	0.21	0.00	0.21				
21.70	0.21	0.00	0.21				
21.75	0.21	0.00	0.21				
21.80	0.21	0.00	0.21				
21.85	0.20	0.00	0.20				
21.90	0.20	0.00	0.20				
21.95	0.20	0.00	0.20				
22.00	0.20	0.00	0.20				
22.05	0.20	0.00	0.20				
22.10	0.20	0.00	0.20				
22.15	0.20	0.00	0.20				
22.20	0.20	0.00	0.20				
22.25	0.20	0.00	0.20				
22.30	0.20	0.00	0.20				
22.35	0.20	0.00	0.20				
22.40	0.19	0.00	0.19				
22.45	0.19	0.00	0.19				
22.50	0.19	0.00	0.19				
22.55	0.19	0.00	0.19				
22.60	0.19	0.00	0.19				
22.65	0.19	0.00	0.19				
22.70	0.19	0.00	0.19				
22.75	0.19	0.00	0.19				
22.80	0.19	0.00	0.19				
22.85	0.19	0.00	0.19				
22.90	0.19	0.00	0.19				
22.95	0.19	0.00	0.19				
23.00	0.19	0.00	0.19				
23.05	0.18	0.00	0.18				
23.10	0.18	0.00	0.18				
23.15	0.18	0.00	0.18				
23.20	0.18	0.00	0.18				
23.25	0.18	0.00	0.18				
23.30	0.18	0.00	0.18				
23.35	0.18	0.00	0.18				

Summary for Link P1B: P1B

Inflow Area = 3.430 ac, 82.22% Impervious, Inflow Depth > 10.88" for 100YR PROJECTED event
Inflow = 38.08 cfs @ 12.12 hrs, Volume= 3.111 af
Primary = 38.08 cfs @ 12.12 hrs, Volume= 3.111 af, Atten= 0%, Lag= 0.0 min
Routed to Link PPOI-1 : PPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link P1B: P1B



Hydrograph for Link P1B: P1B

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.38	0.00	0.38
0.05	0.00	0.00	0.00	2.65	0.38	0.00	0.38
0.10	0.00	0.00	0.00	2.70	0.38	0.00	0.38
0.15	0.00	0.00	0.00	2.75	0.39	0.00	0.39
0.20	0.00	0.00	0.00	2.80	0.39	0.00	0.39
0.25	0.00	0.00	0.00	2.85	0.40	0.00	0.40
0.30	0.00	0.00	0.00	2.90	0.40	0.00	0.40
0.35	0.00	0.00	0.00	2.95	0.40	0.00	0.40
0.40	0.01	0.00	0.01	3.00	0.41	0.00	0.41
0.45	0.02	0.00	0.02	3.05	0.41	0.00	0.41
0.50	0.04	0.00	0.04	3.10	0.41	0.00	0.41
0.55	0.06	0.00	0.06	3.15	0.41	0.00	0.41
0.60	0.07	0.00	0.07	3.20	0.42	0.00	0.42
0.65	0.09	0.00	0.09	3.25	0.42	0.00	0.42
0.70	0.11	0.00	0.11	3.30	0.42	0.00	0.42
0.75	0.12	0.00	0.12	3.35	0.43	0.00	0.43
0.80	0.14	0.00	0.14	3.40	0.43	0.00	0.43
0.85	0.15	0.00	0.15	3.45	0.43	0.00	0.43
0.90	0.16	0.00	0.16	3.50	0.44	0.00	0.44
0.95	0.17	0.00	0.17	3.55	0.44	0.00	0.44
1.00	0.18	0.00	0.18	3.60	0.44	0.00	0.44
1.05	0.19	0.00	0.19	3.65	0.44	0.00	0.44
1.10	0.21	0.00	0.21	3.70	0.45	0.00	0.45
1.15	0.21	0.00	0.21	3.75	0.45	0.00	0.45
1.20	0.22	0.00	0.22	3.80	0.45	0.00	0.45
1.25	0.23	0.00	0.23	3.85	0.45	0.00	0.45
1.30	0.24	0.00	0.24	3.90	0.46	0.00	0.46
1.35	0.25	0.00	0.25	3.95	0.46	0.00	0.46
1.40	0.25	0.00	0.25	4.00	0.46	0.00	0.46
1.45	0.26	0.00	0.26	4.05	0.46	0.00	0.46
1.50	0.27	0.00	0.27	4.10	0.47	0.00	0.47
1.55	0.28	0.00	0.28	4.15	0.47	0.00	0.47
1.60	0.28	0.00	0.28	4.20	0.47	0.00	0.47
1.65	0.29	0.00	0.29	4.25	0.48	0.00	0.48
1.70	0.29	0.00	0.29	4.30	0.48	0.00	0.48
1.75	0.30	0.00	0.30	4.35	0.48	0.00	0.48
1.80	0.31	0.00	0.31	4.40	0.48	0.00	0.48
1.85	0.31	0.00	0.31	4.45	0.48	0.00	0.48
1.90	0.32	0.00	0.32	4.50	0.49	0.00	0.49
1.95	0.32	0.00	0.32	4.55	0.49	0.00	0.49
2.00	0.33	0.00	0.33	4.60	0.49	0.00	0.49
2.05	0.33	0.00	0.33	4.65	0.49	0.00	0.49
2.10	0.34	0.00	0.34	4.70	0.50	0.00	0.50
2.15	0.34	0.00	0.34	4.75	0.50	0.00	0.50
2.20	0.35	0.00	0.35	4.80	0.50	0.00	0.50
2.25	0.35	0.00	0.35	4.85	0.50	0.00	0.50
2.30	0.36	0.00	0.36	4.90	0.50	0.00	0.50
2.35	0.36	0.00	0.36	4.95	0.51	0.00	0.51
2.40	0.36	0.00	0.36	5.00	0.51	0.00	0.51
2.45	0.37	0.00	0.37	5.05	0.51	0.00	0.51
2.50	0.37	0.00	0.37	5.10	0.51	0.00	0.51
2.55	0.37	0.00	0.37	5.15	0.52	0.00	0.52

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.52	0.00	0.52	7.80	0.81	0.00	0.81
5.25	0.52	0.00	0.52	7.85	0.81	0.00	0.81
5.30	0.52	0.00	0.52	7.90	0.82	0.00	0.82
5.35	0.52	0.00	0.52	7.95	0.83	0.00	0.83
5.40	0.53	0.00	0.53	8.00	0.84	0.00	0.84
5.45	0.53	0.00	0.53	8.05	0.84	0.00	0.84
5.50	0.53	0.00	0.53	8.10	0.85	0.00	0.85
5.55	0.53	0.00	0.53	8.15	0.86	0.00	0.86
5.60	0.54	0.00	0.54	8.20	0.87	0.00	0.87
5.65	0.54	0.00	0.54	8.25	0.87	0.00	0.87
5.70	0.54	0.00	0.54	8.30	0.88	0.00	0.88
5.75	0.54	0.00	0.54	8.35	0.89	0.00	0.89
5.80	0.54	0.00	0.54	8.40	0.90	0.00	0.90
5.85	0.55	0.00	0.55	8.45	0.90	0.00	0.90
5.90	0.55	0.00	0.55	8.50	0.91	0.00	0.91
5.95	0.55	0.00	0.55	8.55	0.92	0.00	0.92
6.00	0.55	0.00	0.55	8.60	0.93	0.00	0.93
6.05	0.56	0.00	0.56	8.65	0.94	0.00	0.94
6.10	0.56	0.00	0.56	8.70	0.94	0.00	0.94
6.15	0.57	0.00	0.57	8.75	0.95	0.00	0.95
6.20	0.58	0.00	0.58	8.80	0.96	0.00	0.96
6.25	0.58	0.00	0.58	8.85	0.97	0.00	0.97
6.30	0.59	0.00	0.59	8.90	0.97	0.00	0.97
6.35	0.60	0.00	0.60	8.95	0.98	0.00	0.98
6.40	0.61	0.00	0.61	9.00	0.99	0.00	0.99
6.45	0.61	0.00	0.61	9.05	1.01	0.00	1.01
6.50	0.62	0.00	0.62	9.10	1.03	0.00	1.03
6.55	0.63	0.00	0.63	9.15	1.06	0.00	1.06
6.60	0.63	0.00	0.63	9.20	1.08	0.00	1.08
6.65	0.64	0.00	0.64	9.25	1.11	0.00	1.11
6.70	0.65	0.00	0.65	9.30	1.14	0.00	1.14
6.75	0.66	0.00	0.66	9.35	1.17	0.00	1.17
6.80	0.66	0.00	0.66	9.40	1.19	0.00	1.19
6.85	0.67	0.00	0.67	9.45	1.22	0.00	1.22
6.90	0.68	0.00	0.68	9.50	1.25	0.00	1.25
6.95	0.68	0.00	0.68	9.55	1.28	0.00	1.28
7.00	0.69	0.00	0.69	9.60	1.31	0.00	1.31
7.05	0.70	0.00	0.70	9.65	1.33	0.00	1.33
7.10	0.71	0.00	0.71	9.70	1.36	0.00	1.36
7.15	0.71	0.00	0.71	9.75	1.39	0.00	1.39
7.20	0.72	0.00	0.72	9.80	1.42	0.00	1.42
7.25	0.73	0.00	0.73	9.85	1.45	0.00	1.45
7.30	0.73	0.00	0.73	9.90	1.48	0.00	1.48
7.35	0.74	0.00	0.74	9.95	1.50	0.00	1.50
7.40	0.75	0.00	0.75	10.00	1.53	0.00	1.53
7.45	0.76	0.00	0.76	10.05	1.56	0.00	1.56
7.50	0.77	0.00	0.77	10.10	1.59	0.00	1.59
7.55	0.77	0.00	0.77	10.15	1.62	0.00	1.62
7.60	0.78	0.00	0.78	10.20	1.65	0.00	1.65
7.65	0.79	0.00	0.79	10.25	1.68	0.00	1.68
7.70	0.79	0.00	0.79	10.30	1.70	0.00	1.70
7.75	0.80	0.00	0.80	10.35	1.73	0.00	1.73

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	1.76	0.00	1.76	13.00	3.80	0.00	3.80
10.45	1.79	0.00	1.79	13.05	3.58	0.00	3.58
10.50	1.82	0.00	1.82	13.10	3.37	0.00	3.37
10.55	1.89	0.00	1.89	13.15	3.21	0.00	3.21
10.60	1.97	0.00	1.97	13.20	3.07	0.00	3.07
10.65	2.07	0.00	2.07	13.25	2.94	0.00	2.94
10.70	2.17	0.00	2.17	13.30	2.82	0.00	2.82
10.75	2.28	0.00	2.28	13.35	2.70	0.00	2.70
10.80	2.39	0.00	2.39	13.40	2.59	0.00	2.59
10.85	2.50	0.00	2.50	13.45	2.47	0.00	2.47
10.90	2.60	0.00	2.60	13.50	2.36	0.00	2.36
10.95	2.71	0.00	2.71	13.55	2.24	0.00	2.24
11.00	2.82	0.00	2.82	13.60	2.13	0.00	2.13
11.05	2.98	0.00	2.98	13.65	2.06	0.00	2.06
11.10	3.15	0.00	3.15	13.70	2.00	0.00	2.00
11.15	3.35	0.00	3.35	13.75	1.96	0.00	1.96
11.20	3.54	0.00	3.54	13.80	1.93	0.00	1.93
11.25	3.75	0.00	3.75	13.85	1.89	0.00	1.89
11.30	3.95	0.00	3.95	13.90	1.86	0.00	1.86
11.35	4.16	0.00	4.16	13.95	1.83	0.00	1.83
11.40	4.36	0.00	4.36	14.00	1.80	0.00	1.80
11.45	4.55	0.00	4.55	14.05	1.77	0.00	1.77
11.50	4.72	0.00	4.72	14.10	1.74	0.00	1.74
11.55	5.48	0.00	5.48	14.15	1.71	0.00	1.71
11.60	6.51	0.00	6.51	14.20	1.69	0.00	1.69
11.65	7.15	0.00	7.15	14.25	1.66	0.00	1.66
11.70	7.60	0.00	7.60	14.30	1.63	0.00	1.63
11.75	8.58	0.00	8.58	14.35	1.59	0.00	1.59
11.80	9.80	0.00	9.80	14.40	1.56	0.00	1.56
11.85	11.50	0.00	11.50	14.45	1.54	0.00	1.54
11.90	13.42	0.00	13.42	14.50	1.51	0.00	1.51
11.95	17.22	0.00	17.22	14.55	1.48	0.00	1.48
12.00	21.88	0.00	21.88	14.60	1.45	0.00	1.45
12.05	28.79	0.00	28.79	14.65	1.42	0.00	1.42
12.10	**36.77**	0.00	**36.77**	14.70	1.39	0.00	1.39
12.15	**33.89**	0.00	**33.89**	14.75	1.36	0.00	1.36
12.20	25.45	0.00	25.45	14.80	1.33	0.00	1.33
12.25	19.93	0.00	19.93	14.85	1.30	0.00	1.30
12.30	15.94	0.00	15.94	14.90	1.27	0.00	1.27
12.35	12.97	0.00	12.97	14.95	1.24	0.00	1.24
12.40	10.68	0.00	10.68	15.00	1.21	0.00	1.21
12.45	9.44	0.00	9.44	15.05	1.18	0.00	1.18
12.50	8.69	0.00	8.69	15.10	1.15	0.00	1.15
12.55	7.62	0.00	7.62	15.15	1.13	0.00	1.13
12.60	6.44	0.00	6.44	15.20	1.12	0.00	1.12
12.65	5.74	0.00	5.74	15.25	1.10	0.00	1.10
12.70	5.30	0.00	5.30	15.30	1.09	0.00	1.09
12.75	4.96	0.00	4.96	15.35	1.09	0.00	1.09
12.80	4.69	0.00	4.69	15.40	1.08	0.00	1.08
12.85	4.45	0.00	4.45	15.45	1.07	0.00	1.07
12.90	4.23	0.00	4.23	15.50	1.06	0.00	1.06
12.95	4.01	0.00	4.01	15.55	1.05	0.00	1.05

Hydrograph for Link P1B: P1B (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	1.05	0.00	1.05	18.20	0.64	0.00	0.64
15.65	1.04	0.00	1.04	18.25	0.64	0.00	0.64
15.70	1.03	0.00	1.03	18.30	0.64	0.00	0.64
15.75	1.02	0.00	1.02	18.35	0.64	0.00	0.64
15.80	1.01	0.00	1.01	18.40	0.63	0.00	0.63
15.85	1.01	0.00	1.01	18.45	0.63	0.00	0.63
15.90	1.00	0.00	1.00	18.50	0.63	0.00	0.63
15.95	0.99	0.00	0.99	18.55	0.63	0.00	0.63
16.00	0.98	0.00	0.98	18.60	0.63	0.00	0.63
16.05	0.98	0.00	0.98	18.65	0.62	0.00	0.62
16.10	0.97	0.00	0.97	18.70	0.62	0.00	0.62
16.15	0.96	0.00	0.96	18.75	0.62	0.00	0.62
16.20	0.95	0.00	0.95	18.80	0.62	0.00	0.62
16.25	0.94	0.00	0.94	18.85	0.62	0.00	0.62
16.30	0.94	0.00	0.94	18.90	0.61	0.00	0.61
16.35	0.93	0.00	0.93	18.95	0.61	0.00	0.61
16.40	0.92	0.00	0.92	19.00	0.61	0.00	0.61
16.45	0.91	0.00	0.91	19.05	0.61	0.00	0.61
16.50	0.90	0.00	0.90	19.10	0.61	0.00	0.61
16.55	0.90	0.00	0.90	19.15	0.60	0.00	0.60
16.60	0.89	0.00	0.89	19.20	0.60	0.00	0.60
16.65	0.88	0.00	0.88	19.25	0.60	0.00	0.60
16.70	0.87	0.00	0.87	19.30	0.60	0.00	0.60
16.75	0.87	0.00	0.87	19.35	0.60	0.00	0.60
16.80	0.86	0.00	0.86	19.40	0.59	0.00	0.59
16.85	0.85	0.00	0.85	19.45	0.59	0.00	0.59
16.90	0.84	0.00	0.84	19.50	0.59	0.00	0.59
16.95	0.83	0.00	0.83	19.55	0.59	0.00	0.59
17.00	0.83	0.00	0.83	19.60	0.59	0.00	0.59
17.05	0.82	0.00	0.82	19.65	0.58	0.00	0.58
17.10	0.81	0.00	0.81	19.70	0.58	0.00	0.58
17.15	0.80	0.00	0.80	19.75	0.58	0.00	0.58
17.20	0.80	0.00	0.80	19.80	0.58	0.00	0.58
17.25	0.79	0.00	0.79	19.85	0.58	0.00	0.58
17.30	0.78	0.00	0.78	19.90	0.58	0.00	0.58
17.35	0.77	0.00	0.77	19.95	0.57	0.00	0.57
17.40	0.76	0.00	0.76	20.00	0.57	0.00	0.57
17.45	0.75	0.00	0.75	20.05	0.57	0.00	0.57
17.50	0.75	0.00	0.75	20.10	0.57	0.00	0.57
17.55	0.74	0.00	0.74	20.15	0.56	0.00	0.56
17.60	0.73	0.00	0.73	20.20	0.56	0.00	0.56
17.65	0.72	0.00	0.72	20.25	0.56	0.00	0.56
17.70	0.72	0.00	0.72	20.30	0.56	0.00	0.56
17.75	0.71	0.00	0.71	20.35	0.56	0.00	0.56
17.80	0.70	0.00	0.70	20.40	0.55	0.00	0.55
17.85	0.69	0.00	0.69	20.45	0.55	0.00	0.55
17.90	0.68	0.00	0.68	20.50	0.55	0.00	0.55
17.95	0.68	0.00	0.68	20.55	0.55	0.00	0.55
18.00	0.67	0.00	0.67	20.60	0.55	0.00	0.55
18.05	0.66	0.00	0.66	20.65	0.55	0.00	0.55
18.10	0.65	0.00	0.65	20.70	0.54	0.00	0.54
18.15	0.65	0.00	0.65	20.75	0.54	0.00	0.54

Hydrograph for Link P1B: P1B (continued)

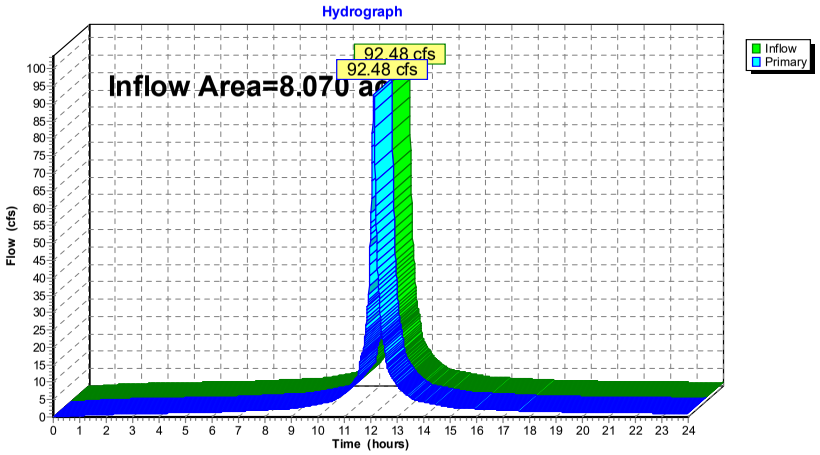
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.54	0.00	0.54	23.40	0.44	0.00	0.44
20.85	0.54	0.00	0.54	23.45	0.43	0.00	0.43
20.90	0.53	0.00	0.53	23.50	0.43	0.00	0.43
20.95	0.53	0.00	0.53	23.55	0.43	0.00	0.43
21.00	0.53	0.00	0.53	23.60	0.43	0.00	0.43
21.05	0.53	0.00	0.53	23.65	0.43	0.00	0.43
21.10	0.53	0.00	0.53	23.70	0.43	0.00	0.43
21.15	0.52	0.00	0.52	23.75	0.42	0.00	0.42
21.20	0.52	0.00	0.52	23.80	0.42	0.00	0.42
21.25	0.52	0.00	0.52	23.85	0.42	0.00	0.42
21.30	0.52	0.00	0.52	23.90	0.42	0.00	0.42
21.35	0.52	0.00	0.52	23.95	0.44	0.00	0.44
21.40	0.52	0.00	0.52	24.00	0.47	0.00	0.47
21.45	0.51	0.00	0.51				
21.50	0.51	0.00	0.51				
21.55	0.51	0.00	0.51				
21.60	0.51	0.00	0.51				
21.65	0.50	0.00	0.50				
21.70	0.50	0.00	0.50				
21.75	0.50	0.00	0.50				
21.80	0.50	0.00	0.50				
21.85	0.50	0.00	0.50				
21.90	0.50	0.00	0.50				
21.95	0.49	0.00	0.49				
22.00	0.49	0.00	0.49				
22.05	0.49	0.00	0.49				
22.10	0.49	0.00	0.49				
22.15	0.49	0.00	0.49				
22.20	0.48	0.00	0.48				
22.25	0.48	0.00	0.48				
22.30	0.48	0.00	0.48				
22.35	0.48	0.00	0.48				
22.40	0.47	0.00	0.47				
22.45	0.47	0.00	0.47				
22.50	0.47	0.00	0.47				
22.55	0.47	0.00	0.47				
22.60	0.47	0.00	0.47				
22.65	0.47	0.00	0.47				
22.70	0.46	0.00	0.46				
22.75	0.46	0.00	0.46				
22.80	0.46	0.00	0.46				
22.85	0.46	0.00	0.46				
22.90	0.45	0.00	0.45				
22.95	0.45	0.00	0.45				
23.00	0.45	0.00	0.45				
23.05	0.45	0.00	0.45				
23.10	0.45	0.00	0.45				
23.15	0.45	0.00	0.45				
23.20	0.44	0.00	0.44				
23.25	0.44	0.00	0.44				
23.30	0.44	0.00	0.44				
23.35	0.44	0.00	0.44				

Summary for Link PPOI-1: PPOI-1

Inflow Area = 8.070 ac, 81.04% Impervious, Inflow Depth > 11.08" for 100YR PROJECTED event
Inflow = 92.48 cfs @ 12.11 hrs, Volume= 7.454 af
Primary = 92.48 cfs @ 12.11 hrs, Volume= 7.454 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link PPOI-1: PPOI-1



Hydrograph for Link PPOI-1: PPOI-1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.85	0.00	0.85
0.05	0.00	0.00	0.00	2.65	0.86	0.00	0.86
0.10	0.00	0.00	0.00	2.70	0.87	0.00	0.87
0.15	0.00	0.00	0.00	2.75	0.88	0.00	0.88
0.20	0.00	0.00	0.00	2.80	0.89	0.00	0.89
0.25	0.00	0.00	0.00	2.85	0.89	0.00	0.89
0.30	0.00	0.00	0.00	2.90	0.90	0.00	0.90
0.35	0.00	0.00	0.00	2.95	0.91	0.00	0.91
0.40	0.03	0.00	0.03	3.00	0.91	0.00	0.91
0.45	0.06	0.00	0.06	3.05	0.92	0.00	0.92
0.50	0.10	0.00	0.10	3.10	0.93	0.00	0.93
0.55	0.14	0.00	0.14	3.15	0.94	0.00	0.94
0.60	0.18	0.00	0.18	3.20	0.95	0.00	0.95
0.65	0.21	0.00	0.21	3.25	0.95	0.00	0.95
0.70	0.25	0.00	0.25	3.30	0.96	0.00	0.96
0.75	0.28	0.00	0.28	3.35	0.97	0.00	0.97
0.80	0.31	0.00	0.31	3.40	0.98	0.00	0.98
0.85	0.34	0.00	0.34	3.45	0.99	0.00	0.99
0.90	0.37	0.00	0.37	3.50	1.00	0.00	1.00
0.95	0.39	0.00	0.39	3.55	1.00	0.00	1.00
1.00	0.42	0.00	0.42	3.60	1.01	0.00	1.01
1.05	0.44	0.00	0.44	3.65	1.01	0.00	1.01
1.10	0.47	0.00	0.47	3.70	1.02	0.00	1.02
1.15	0.49	0.00	0.49	3.75	1.03	0.00	1.03
1.20	0.50	0.00	0.50	3.80	1.03	0.00	1.03
1.25	0.52	0.00	0.52	3.85	1.04	0.00	1.04
1.30	0.54	0.00	0.54	3.90	1.05	0.00	1.05
1.35	0.56	0.00	0.56	3.95	1.06	0.00	1.06
1.40	0.58	0.00	0.58	4.00	1.06	0.00	1.06
1.45	0.59	0.00	0.59	4.05	1.07	0.00	1.07
1.50	0.61	0.00	0.61	4.10	1.08	0.00	1.08
1.55	0.62	0.00	0.62	4.15	1.08	0.00	1.08
1.60	0.64	0.00	0.64	4.20	1.09	0.00	1.09
1.65	0.65	0.00	0.65	4.25	1.10	0.00	1.10
1.70	0.66	0.00	0.66	4.30	1.11	0.00	1.11
1.75	0.68	0.00	0.68	4.35	1.11	0.00	1.11
1.80	0.69	0.00	0.69	4.40	1.12	0.00	1.12
1.85	0.70	0.00	0.70	4.45	1.12	0.00	1.12
1.90	0.72	0.00	0.72	4.50	1.13	0.00	1.13
1.95	0.73	0.00	0.73	4.55	1.14	0.00	1.14
2.00	0.74	0.00	0.74	4.60	1.14	0.00	1.14
2.05	0.75	0.00	0.75	4.65	1.15	0.00	1.15
2.10	0.76	0.00	0.76	4.70	1.15	0.00	1.15
2.15	0.77	0.00	0.77	4.75	1.16	0.00	1.16
2.20	0.78	0.00	0.78	4.80	1.17	0.00	1.17
2.25	0.79	0.00	0.79	4.85	1.17	0.00	1.17
2.30	0.80	0.00	0.80	4.90	1.18	0.00	1.18
2.35	0.81	0.00	0.81	4.95	1.18	0.00	1.18
2.40	0.82	0.00	0.82	5.00	1.19	0.00	1.19
2.45	0.82	0.00	0.82	5.05	1.20	0.00	1.20
2.50	0.83	0.00	0.83	5.10	1.20	0.00	1.20
2.55	0.84	0.00	0.84	5.15	1.21	0.00	1.21

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	1.22	0.00	1.22	7.80	1.95	0.00	1.95
5.25	1.22	0.00	1.22	7.85	1.97	0.00	1.97
5.30	1.23	0.00	1.23	7.90	1.99	0.00	1.99
5.35	1.23	0.00	1.23	7.95	2.01	0.00	2.01
5.40	1.24	0.00	1.24	8.00	2.03	0.00	2.03
5.45	1.25	0.00	1.25	8.05	2.05	0.00	2.05
5.50	1.25	0.00	1.25	8.10	2.06	0.00	2.06
5.55	1.26	0.00	1.26	8.15	2.08	0.00	2.08
5.60	1.26	0.00	1.26	8.20	2.10	0.00	2.10
5.65	1.27	0.00	1.27	8.25	2.12	0.00	2.12
5.70	1.27	0.00	1.27	8.30	2.14	0.00	2.14
5.75	1.28	0.00	1.28	8.35	2.16	0.00	2.16
5.80	1.29	0.00	1.29	8.40	2.18	0.00	2.18
5.85	1.29	0.00	1.29	8.45	2.20	0.00	2.20
5.90	1.30	0.00	1.30	8.50	2.22	0.00	2.22
5.95	1.30	0.00	1.30	8.55	2.24	0.00	2.24
6.00	1.31	0.00	1.31	8.60	2.25	0.00	2.25
6.05	1.32	0.00	1.32	8.65	2.28	0.00	2.28
6.10	1.34	0.00	1.34	8.70	2.30	0.00	2.30
6.15	1.35	0.00	1.35	8.75	2.32	0.00	2.32
6.20	1.37	0.00	1.37	8.80	2.33	0.00	2.33
6.25	1.39	0.00	1.39	8.85	2.35	0.00	2.35
6.30	1.41	0.00	1.41	8.90	2.37	0.00	2.37
6.35	1.43	0.00	1.43	8.95	2.39	0.00	2.39
6.40	1.44	0.00	1.44	9.00	2.41	0.00	2.41
6.45	1.46	0.00	1.46	9.05	2.46	0.00	2.46
6.50	1.48	0.00	1.48	9.10	2.51	0.00	2.51
6.55	1.50	0.00	1.50	9.15	2.58	0.00	2.58
6.60	1.51	0.00	1.51	9.20	2.64	0.00	2.64
6.65	1.53	0.00	1.53	9.25	2.71	0.00	2.71
6.70	1.55	0.00	1.55	9.30	2.77	0.00	2.77
6.75	1.57	0.00	1.57	9.35	2.85	0.00	2.85
6.80	1.58	0.00	1.58	9.40	2.91	0.00	2.91
6.85	1.60	0.00	1.60	9.45	2.98	0.00	2.98
6.90	1.62	0.00	1.62	9.50	3.04	0.00	3.04
6.95	1.64	0.00	1.64	9.55	3.12	0.00	3.12
7.00	1.66	0.00	1.66	9.60	3.18	0.00	3.18
7.05	1.68	0.00	1.68	9.65	3.26	0.00	3.26
7.10	1.70	0.00	1.70	9.70	3.32	0.00	3.32
7.15	1.72	0.00	1.72	9.75	3.39	0.00	3.39
7.20	1.73	0.00	1.73	9.80	3.45	0.00	3.45
7.25	1.75	0.00	1.75	9.85	3.53	0.00	3.53
7.30	1.77	0.00	1.77	9.90	3.60	0.00	3.60
7.35	1.79	0.00	1.79	9.95	3.67	0.00	3.67
7.40	1.81	0.00	1.81	10.00	3.73	0.00	3.73
7.45	1.83	0.00	1.83	10.05	3.81	0.00	3.81
7.50	1.85	0.00	1.85	10.10	3.87	0.00	3.87
7.55	1.86	0.00	1.86	10.15	3.95	0.00	3.95
7.60	1.88	0.00	1.88	10.20	4.01	0.00	4.01
7.65	1.90	0.00	1.90	10.25	4.09	0.00	4.09
7.70	1.92	0.00	1.92	10.30	4.15	0.00	4.15
7.75	1.94	0.00	1.94	10.35	4.23	0.00	4.23

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	4.29	0.00	4.29	13.00	9.15	0.00	9.15
10.45	4.37	0.00	4.37	13.05	8.58	0.00	8.58
10.50	4.44	0.00	4.44	13.10	8.09	0.00	8.09
10.55	4.63	0.00	4.63	13.15	7.68	0.00	7.68
10.60	4.83	0.00	4.83	13.20	7.36	0.00	7.36
10.65	5.09	0.00	5.09	13.25	7.03	0.00	7.03
10.70	5.31	0.00	5.31	13.30	6.75	0.00	6.75
10.75	5.59	0.00	5.59	13.35	6.45	0.00	6.45
10.80	5.83	0.00	5.83	13.40	6.18	0.00	6.18
10.85	6.11	0.00	6.11	13.45	5.89	0.00	5.89
10.90	6.35	0.00	6.35	13.50	5.63	0.00	5.63
10.95	6.64	0.00	6.64	13.55	5.33	0.00	5.33
11.00	6.88	0.00	6.88	13.60	5.08	0.00	5.08
11.05	7.31	0.00	7.31	13.65	4.91	0.00	4.91
11.10	7.71	0.00	7.71	13.70	4.79	0.00	4.79
11.15	8.21	0.00	8.21	13.75	4.69	0.00	4.69
11.20	8.65	0.00	8.65	13.80	4.60	0.00	4.60
11.25	9.18	0.00	9.18	13.85	4.52	0.00	4.52
11.30	9.63	0.00	9.63	13.90	4.46	0.00	4.46
11.35	10.17	0.00	10.17	13.95	4.37	0.00	4.37
11.40	10.63	0.00	10.63	14.00	4.30	0.00	4.30
11.45	11.10	0.00	11.10	14.05	4.22	0.00	4.22
11.50	11.48	0.00	11.48	14.10	4.16	0.00	4.16
11.55	13.72	0.00	13.72	14.15	4.08	0.00	4.08
11.60	16.08	0.00	16.08	14.20	4.02	0.00	4.02
11.65	17.55	0.00	17.55	14.25	3.94	0.00	3.94
11.70	18.48	0.00	18.48	14.30	3.87	0.00	3.87
11.75	21.23	0.00	21.23	14.35	3.79	0.00	3.79
11.80	24.00	0.00	24.00	14.40	3.73	0.00	3.73
11.85	28.62	0.00	28.62	14.45	3.65	0.00	3.65
11.90	32.94	0.00	32.94	14.50	3.59	0.00	3.59
11.95	43.57	0.00	43.57	14.55	3.51	0.00	3.51
12.00	54.09	0.00	54.09	14.60	3.44	0.00	3.44
12.05	72.86	0.00	72.86	14.65	3.37	0.00	3.37
12.10	**90.65**	0.00	**90.65**	14.70	3.30	0.00	3.30
12.15	**77.50**	0.00	**77.50**	14.75	3.23	0.00	3.23
12.20	57.62	0.00	57.62	14.80	3.16	0.00	3.16
12.25	44.77	0.00	44.77	14.85	3.09	0.00	3.09
12.30	36.33	0.00	36.33	14.90	3.02	0.00	3.02
12.35	29.77	0.00	29.77	14.95	2.94	0.00	2.94
12.40	25.04	0.00	25.04	15.00	2.87	0.00	2.87
12.45	22.43	0.00	22.43	15.05	2.80	0.00	2.80
12.50	20.92	0.00	20.92	15.10	2.74	0.00	2.74
12.55	18.06	0.00	18.06	15.15	2.69	0.00	2.69
12.60	15.35	0.00	15.35	15.20	2.66	0.00	2.66
12.65	13.78	0.00	13.78	15.25	2.63	0.00	2.63
12.70	12.82	0.00	12.82	15.30	2.61	0.00	2.61
12.75	12.01	0.00	12.01	15.35	2.59	0.00	2.59
12.80	11.39	0.00	11.39	15.40	2.57	0.00	2.57
12.85	10.76	0.00	10.76	15.45	2.55	0.00	2.55
12.90	10.23	0.00	10.23	15.50	2.53	0.00	2.53
12.95	9.65	0.00	9.65	15.55	2.51	0.00	2.51

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	2.50	0.00	2.50	18.20	1.53	0.00	1.53
15.65	2.47	0.00	2.47	18.25	1.52	0.00	1.52
15.70	2.45	0.00	2.45	18.30	1.52	0.00	1.52
15.75	2.43	0.00	2.43	18.35	1.51	0.00	1.51
15.80	2.41	0.00	2.41	18.40	1.51	0.00	1.51
15.85	2.40	0.00	2.40	18.45	1.50	0.00	1.50
15.90	2.38	0.00	2.38	18.50	1.50	0.00	1.50
15.95	2.36	0.00	2.36	18.55	1.49	0.00	1.49
16.00	2.34	0.00	2.34	18.60	1.49	0.00	1.49
16.05	2.32	0.00	2.32	18.65	1.48	0.00	1.48
16.10	2.31	0.00	2.31	18.70	1.48	0.00	1.48
16.15	2.29	0.00	2.29	18.75	1.47	0.00	1.47
16.20	2.27	0.00	2.27	18.80	1.47	0.00	1.47
16.25	2.25	0.00	2.25	18.85	1.46	0.00	1.46
16.30	2.23	0.00	2.23	18.90	1.46	0.00	1.46
16.35	2.21	0.00	2.21	18.95	1.45	0.00	1.45
16.40	2.19	0.00	2.19	19.00	1.45	0.00	1.45
16.45	2.17	0.00	2.17	19.05	1.45	0.00	1.45
16.50	2.15	0.00	2.15	19.10	1.44	0.00	1.44
16.55	2.13	0.00	2.13	19.15	1.44	0.00	1.44
16.60	2.12	0.00	2.12	19.20	1.43	0.00	1.43
16.65	2.10	0.00	2.10	19.25	1.43	0.00	1.43
16.70	2.08	0.00	2.08	19.30	1.42	0.00	1.42
16.75	2.06	0.00	2.06	19.35	1.42	0.00	1.42
16.80	2.04	0.00	2.04	19.40	1.41	0.00	1.41
16.85	2.02	0.00	2.02	19.45	1.41	0.00	1.41
16.90	2.00	0.00	2.00	19.50	1.40	0.00	1.40
16.95	1.98	0.00	1.98	19.55	1.40	0.00	1.40
17.00	1.97	0.00	1.97	19.60	1.39	0.00	1.39
17.05	1.95	0.00	1.95	19.65	1.39	0.00	1.39
17.10	1.93	0.00	1.93	19.70	1.38	0.00	1.38
17.15	1.91	0.00	1.91	19.75	1.38	0.00	1.38
17.20	1.89	0.00	1.89	19.80	1.38	0.00	1.38
17.25	1.87	0.00	1.87	19.85	1.37	0.00	1.37
17.30	1.85	0.00	1.85	19.90	1.37	0.00	1.37
17.35	1.83	0.00	1.83	19.95	1.36	0.00	1.36
17.40	1.81	0.00	1.81	20.00	1.36	0.00	1.36
17.45	1.79	0.00	1.79	20.05	1.35	0.00	1.35
17.50	1.78	0.00	1.78	20.10	1.35	0.00	1.35
17.55	1.76	0.00	1.76	20.15	1.34	0.00	1.34
17.60	1.74	0.00	1.74	20.20	1.34	0.00	1.34
17.65	1.72	0.00	1.72	20.25	1.33	0.00	1.33
17.70	1.70	0.00	1.70	20.30	1.33	0.00	1.33
17.75	1.68	0.00	1.68	20.35	1.32	0.00	1.32
17.80	1.66	0.00	1.66	20.40	1.32	0.00	1.32
17.85	1.64	0.00	1.64	20.45	1.31	0.00	1.31
17.90	1.63	0.00	1.63	20.50	1.31	0.00	1.31
17.95	1.61	0.00	1.61	20.55	1.31	0.00	1.31
18.00	1.59	0.00	1.59	20.60	1.30	0.00	1.30
18.05	1.57	0.00	1.57	20.65	1.30	0.00	1.30
18.10	1.55	0.00	1.55	20.70	1.29	0.00	1.29
18.15	1.54	0.00	1.54	20.75	1.29	0.00	1.29

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	1.28	0.00	1.28	23.40	1.04	0.00	1.04
20.85	1.28	0.00	1.28	23.45	1.03	0.00	1.03
20.90	1.27	0.00	1.27	23.50	1.03	0.00	1.03
20.95	1.27	0.00	1.27	23.55	1.02	0.00	1.02
21.00	1.26	0.00	1.26	23.60	1.01	0.00	1.01
21.05	1.26	0.00	1.26	23.65	1.01	0.00	1.01
21.10	1.25	0.00	1.25	23.70	1.01	0.00	1.01
21.15	1.25	0.00	1.25	23.75	1.00	0.00	1.00
21.20	1.24	0.00	1.24	23.80	1.00	0.00	1.00
21.25	1.24	0.00	1.24	23.85	0.99	0.00	0.99
21.30	1.24	0.00	1.24	23.90	0.99	0.00	0.99
21.35	1.23	0.00	1.23	23.95	1.06	0.00	1.06
21.40	1.23	0.00	1.23	24.00	1.14	0.00	1.14
21.45	1.22	0.00	1.22				
21.50	1.21	0.00	1.21				
21.55	1.21	0.00	1.21				
21.60	1.20	0.00	1.20				
21.65	1.20	0.00	1.20				
21.70	1.19	0.00	1.19				
21.75	1.19	0.00	1.19				
21.80	1.19	0.00	1.19				
21.85	1.18	0.00	1.18				
21.90	1.18	0.00	1.18				
21.95	1.17	0.00	1.17				
22.00	1.17	0.00	1.17				
22.05	1.16	0.00	1.16				
22.10	1.16	0.00	1.16				
22.15	1.15	0.00	1.15				
22.20	1.15	0.00	1.15				
22.25	1.15	0.00	1.15				
22.30	1.14	0.00	1.14				
22.35	1.13	0.00	1.13				
22.40	1.13	0.00	1.13				
22.45	1.12	0.00	1.12				
22.50	1.12	0.00	1.12				
22.55	1.12	0.00	1.12				
22.60	1.12	0.00	1.12				
22.65	1.11	0.00	1.11				
22.70	1.10	0.00	1.10				
22.75	1.10	0.00	1.10				
22.80	1.09	0.00	1.09				
22.85	1.09	0.00	1.09				
22.90	1.08	0.00	1.08				
22.95	1.08	0.00	1.08				
23.00	1.08	0.00	1.08				
23.05	1.07	0.00	1.07				
23.10	1.06	0.00	1.06				
23.15	1.06	0.00	1.06				
23.20	1.05	0.00	1.05				
23.25	1.05	0.00	1.05				
23.30	1.04	0.00	1.04				
23.35	1.04	0.00	1.04				

Events for Subcatchment PDA 4 Perv: PDA4 PERV

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR PROJECTED	3.91	0.37	0.021	2.29
10YR PROJECTED	6.17	0.68	0.040	4.35
25YR PROJECTED	8.03	0.94	0.056	6.12
100YR PROJECTED	**11.84**	**1.45**	**0.090**	**9.82**

Events for Subcatchment PDA1A IMP: PDA1A IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR PROJECTED	3.91	4.83	0.340	3.67
10YR PROJECTED	6.17	7.66	0.548	5.93
25YR PROJECTED	8.03	9.99	0.720	7.78
100YR PROJECTED	**11.84**	**14.74**	**1.072**	**11.59**

Events for Subcatchment PDA1A PERV: PDA-1A PERV

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR PROJECTED	3.91	0.45	0.051	2.28
10YR PROJECTED	6.17	0.84	0.098	4.33
25YR PROJECTED	8.03	1.17	0.137	6.09
100YR PROJECTED	**11.84**	**1.83**	**0.220**	**9.78**

Events for Subcatchment PDA1B IMP: PDA1B IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR PROJECTED	3.91	10.26	0.820	3.67
10YR PROJECTED	6.17	16.28	1.323	5.92
25YR PROJECTED	8.03	21.22	1.738	7.78
100YR PROJECTED	**11.84**	**31.32**	**2.587**	**11.58**

Events for Subcatchment PDA1B PERV: PDA-1B PERV

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR PROJECTED	3.91	0.22	0.023	0.62
10YR PROJECTED	6.17	0.85	0.068	1.86
25YR PROJECTED	8.03	1.48	0.115	3.12
100YR PROJECTED	**11.84**	**2.94**	**0.224**	**6.11**

Events for Subcatchment PDA2 IMP: PDA2 IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR PROJECTED	3.91	1.35	0.095	3.67
10YR PROJECTED	6.17	2.14	0.153	5.93
25YR PROJECTED	8.03	2.79	0.201	7.78
100YR PROJECTED	**11.84**	**4.12**	**0.299**	**11.59**

Events for Subcatchment PDA3 IMP: PDA3 IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR PROJECTED	3.91	4.08	0.339	3.67
10YR PROJECTED	6.17	6.47	0.548	5.92
25YR PROJECTED	8.03	8.43	0.720	7.78
100YR PROJECTED	**11.84**	**12.44**	**1.071**	**11.58**

Events for Subcatchment PDA3 PERV: PDA3 PERV

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR PROJECTED	3.91	1.56	0.103	2.29
10YR PROJECTED	6.17	2.89	0.196	4.35
25YR PROJECTED	8.03	3.99	0.275	6.12
100YR PROJECTED	**11.84**	**6.21**	**0.442**	**9.81**

Events for Subcatchment PDA4 IMP: PDA4 IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
2YR PROJECTED	3.91	6.22	0.459	3.67
10YR PROJECTED	6.17	9.87	0.741	5.93
25YR PROJECTED	8.03	12.86	0.973	7.78
100YR PROJECTED	**11.84**	**18.99**	**1.449**	**11.59**

Events for Link P1A: P1A

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
2YR PROJECTED	5.13	5.13	**0.00**
10YR PROJECTED	8.25	8.25	0.00
25YR PROJECTED	10.81	10.81	0.00
100YR PROJECTED	**16.05**	**16.05**	0.00

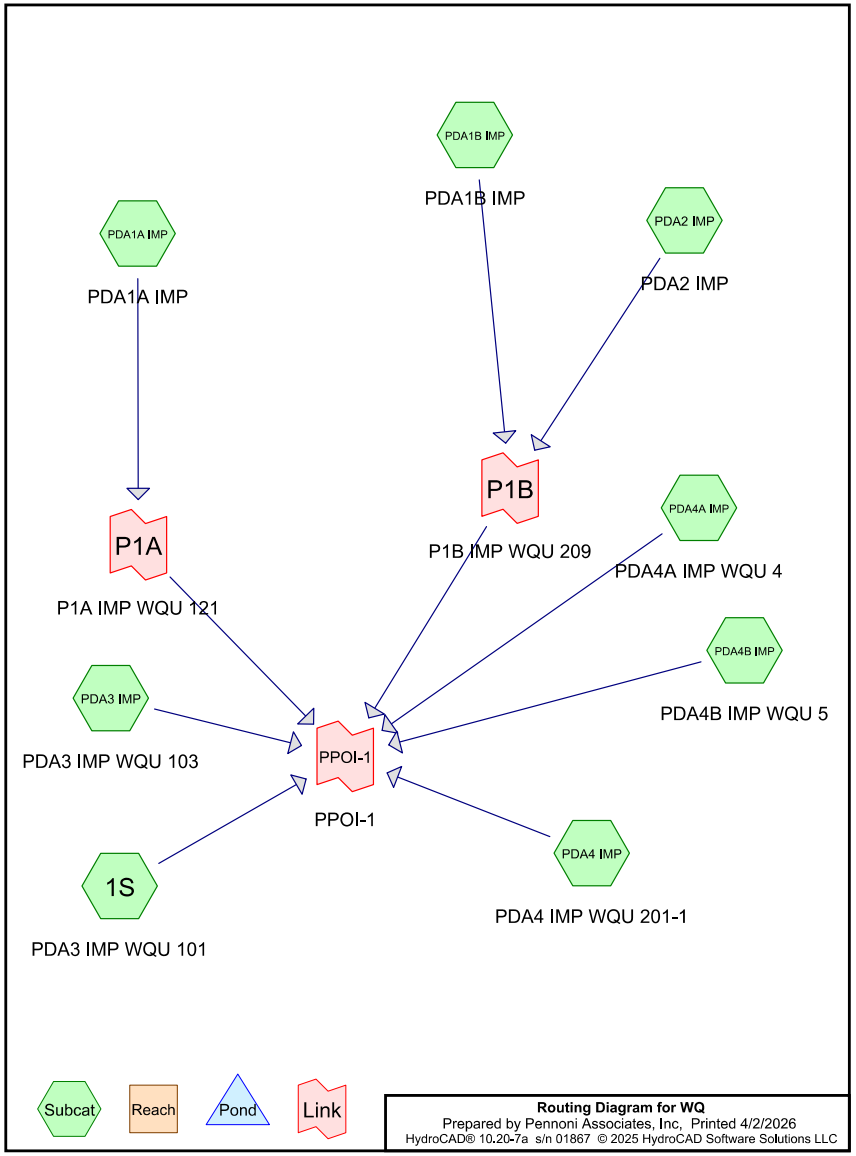
Events for Link P1B: P1B

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
2YR PROJECTED	11.73	11.73	**0.00**
10YR PROJECTED	19.11	19.11	0.00
25YR PROJECTED	25.28	25.28	0.00
100YR PROJECTED	**38.08**	**38.08**	0.00

Events for Link PPOI-1: PPOI-1

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
2YR PROJECTED	28.87	28.87	**0.00**
10YR PROJECTED	46.89	46.89	0.00
25YR PROJECTED	61.81	61.81	0.00
100YR PROJECTED	**92.48**	**92.48**	0.00

Appendix C:
Water Quality Calculations



Rainfall Events Listing (selected events)

Event#	Event Name	Storm Type	Curve	Mode	Duration (hours)	B/B	Depth (inches)	AMC	P2 (inches)
1	WQ	NJ DEP 2-hr		Default	2.00	1	1.25	2	3.91

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.280	98	Existing Impervious (PDA4A IMP)
0.170	96	Gravel surface, HSG A (PDA1B IMP)
1.680	98	Impervious Vehicular (proposed) (PDA4 IMP, PDA4A IMP, PDA4B IMP)
1.500	98	Impervious vehicular (PDA1A IMP, PDA2 IMP)
0.240	98	Impervious vehicular - Additional (1S, PDA3 IMP)
3.870	**98**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.170	HSG A	PDA1B IMP
0.000	HSG B	
0.000	HSG C	
0.000	HSG D	
3.700	Other	1S, PDA1A IMP, PDA2 IMP, PDA3 IMP, PDA4 IMP, PDA4A IMP, PDA4B IMP
3.870		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.000	0.000	0.280	0.280	Existing Impervious	PDA4A IMP
0.170	0.000	0.000	0.000	0.000	0.170	Gravel surface	PDA1B IMP
0.000	0.000	0.000	0.000	1.680	1.680	Impervious Vehicular (proposed)	PDA4 IMP, PDA4A IMP, PDA4B IMP

Ground Covers (all nodes) (continued)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
0.000	0.000	0.000	0.000	1.500	1.500	Impervious vehicular	PDA1A IMP, PDA2 IMP1S, PDA3 IMP
0.000	0.000	0.000	0.000	0.240	0.240	Impervious vehicular - Additional	
0.170	**0.000**	**0.000**	**0.000**	**3.700**	**3.870**	**TOTAL AREA**	

Pipe Listing (all nodes)

Line#	Node Number	In-Invert (feet)	Out-Invert (feet)	Length (feet)	Slope (ft/ft)	n	Width (inches)	Diam/Height (inches)	Inside-Fill (inches)	Nod Nan
1	1S	0.00	0.00	172.0	0.0039	0.015	0.0	24.0	0.0	
2	1S	0.00	0.00	27.0	0.0120	0.015	0.0	24.0	0.0	
3	1S	0.00	0.00	439.0	0.0015	0.015	0.0	60.0	0.0	
4	PDA1A IMP	0.00	0.00	185.0	0.0057	0.015	0.0	30.0	0.0	
5	PDA1B IMP	0.00	0.00	238.0	0.0024	0.015	0.0	18.0	0.0	
6	PDA1B IMP	0.00	0.00	92.0	0.0031	0.015	0.0	18.0	0.0	
7	PDA1B IMP	0.00	0.00	93.0	0.0011	0.015	0.0	18.0	0.0	
8	PDA1B IMP	0.00	0.00	95.0	0.0075	0.015	0.0	18.0	0.0	
9	PDA1B IMP	0.00	0.00	76.0	0.0046	0.015	0.0	18.0	0.0	
10	PDA3 IMP	0.00	0.00	172.0	0.0039	0.015	0.0	24.0	0.0	
11	PDA3 IMP	0.00	0.00	27.0	0.0120	0.015	0.0	24.0	0.0	
12	PDA3 IMP	0.00	0.00	439.0	0.0015	0.015	0.0	60.0	0.0	
13	PDA4 IMP	0.00	0.00	100.0	0.0039	0.015	0.0	18.0	0.0	
14	PDA4 IMP	0.00	0.00	100.0	0.0020	0.015	0.0	24.0	0.0	
15	PDA4A IMP	0.00	0.00	48.0	0.0040	0.015	0.0	18.0	0.0	

Time span=0.00-24.00 hrs, dt=0.01 hrs, 2401 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1S: PDA3IMP WQU 101 Runoff Area=0.070 ac 100.00% Impervious Runoff Depth=1.03"
Flow Length=804' Tc=4.7 min CN=98 Runoff=0.21 cfs 0.006 af

SubcatchmentPDA1AIMP: PDA1AIMP Runoff Area=0.340 ac 100.00% Impervious Runoff Depth=1.03"
Flow Length=332' Tc=2.2 min CN=98 Runoff=1.04 cfs 0.029 af

SubcatchmentPDA1BIMP: PDA1BIMP Runoff Area=0.170 ac 0.00% Impervious Runoff Depth=0.86"
Flow Length=618' Tc=4.1 min CN=96 Runoff=0.46 cfs 0.012 af

SubcatchmentPDA2IMP: PDA2IMP Runoff Area=1.160 ac 100.00% Impervious Runoff Depth=1.03"
Flow Length=351' Tc=2.2 min CN=98 Runoff=3.56 cfs 0.100 af

SubcatchmentPDA3IMP: PDA3IMP WQU Runoff Area=0.170 ac 100.00% Impervious Runoff Depth=1.03"
Flow Length=804' Tc=4.7 min CN=98 Runoff=0.51 cfs 0.015 af

SubcatchmentPDA4IMP: PDA4IMP WQU Runoff Area=1.110 ac 100.00% Impervious Runoff Depth=1.03"
Flow Length=388' Tc=2.9 min CN=98 Runoff=3.41 cfs 0.096 af

SubcatchmentPDA4AIMP: PDA4AIMP Runoff Area=0.600 ac 100.00% Impervious Runoff Depth=1.03"
Flow Length=236' Tc=2.0 min CN=98 Runoff=1.85 cfs 0.052 af

SubcatchmentPDA4BIMP: PDA4BIMP Runoff Area=0.250 ac 100.00% Impervious Runoff Depth=1.03"
Flow Length=188' Slope=0.0150 '/' Tc=1.8 min CN=98 Runoff=0.77 cfs 0.022 af

Link P1A: P1AIMP WQU 121 Inflow=1.04 cfs 0.029 af
Primary=1.04 cfs 0.029 af

Link P1B: P1B IMP WQU 209 Inflow=4.02 cfs 0.112 af
Primary=4.02 cfs 0.112 af

Link PPOI-1: PPOI-1 Inflow=11.78 cfs 0.331 af
Primary=11.78 cfs 0.331 af

Total Runoff Area = 3.870 ac Runoff Volume = 0.331 af Average Runoff Depth = 1.03"
4.39% Pervious = 0.170 ac 95.61% Impervious = 3.700 ac

Summary for Subcatchment 1S: PDA3 IMP WQU 101

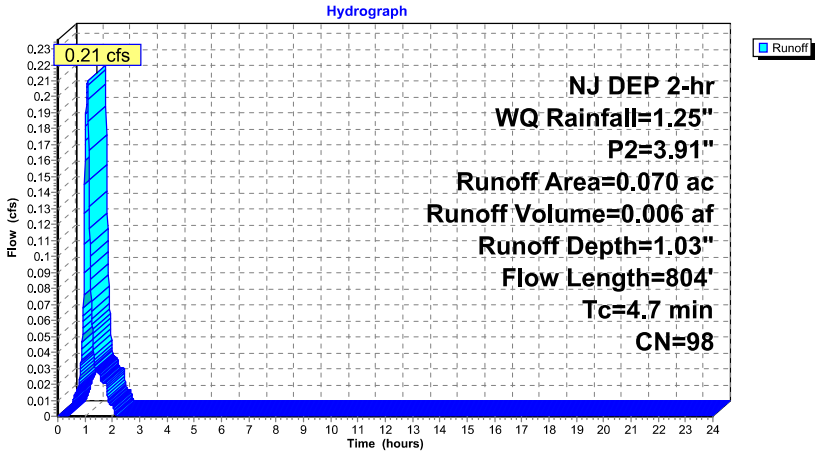
Runoff = 0.21 cfs @ 1.10 hrs, Volume= 0.006 af, Depth= 1.03"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr WQ Rainfall=1.25", P2=3.91"

	Area (ac)	CN	Description
*	0.070	98	Impervious vehicular - Additional
	0.070		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	100	0.0071	1.00		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.7	172	0.0039	3.90	12.24	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
0.1	27	0.0120	6.84	21.48	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
1.6	439	0.0015	4.45	87.42	**Pipe Channel, RCP_Round 60"** 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.015
4.7	804	Total			

Subcatchment 1S: PDA3 IMP WQU 101



Hydrograph for Subcatchment 1S: PDA3 IMP WQU 101

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	1.25	1.03	0.00
0.05	0.00	0.00	0.00	2.65	1.25	1.03	0.00
0.10	0.01	0.00	0.00	2.70	1.25	1.03	0.00
0.15	0.01	0.00	0.00	2.75	1.25	1.03	0.00
0.20	0.02	0.00	0.00	2.80	1.25	1.03	0.00
0.25	0.03	0.00	0.00	2.85	1.25	1.03	0.00
0.30	0.04	0.00	0.00	2.90	1.25	1.03	0.00
0.35	0.06	0.00	0.00	2.95	1.25	1.03	0.00
0.40	0.07	0.00	0.00	3.00	1.25	1.03	0.00
0.45	0.09	0.01	0.00	3.05	1.25	1.03	0.00
0.50	0.10	0.01	0.01	3.10	1.25	1.03	0.00
0.55	0.12	0.02	0.01	3.15	1.25	1.03	0.00
0.60	0.14	0.03	0.01	3.20	1.25	1.03	0.00
0.65	0.16	0.04	0.01	3.25	1.25	1.03	0.00
0.70	0.18	0.06	0.02	3.30	1.25	1.03	0.00
0.75	0.20	0.07	0.02	3.35	1.25	1.03	0.00
0.80	0.23	0.09	0.02	3.40	1.25	1.03	0.00
0.85	0.28	0.13	0.03	3.45	1.25	1.03	0.00
0.90	0.34	0.18	0.05	3.50	1.25	1.03	0.00
0.95	0.46	0.29	0.08	3.55	1.25	1.03	0.00
1.00	0.63	0.43	0.16	3.60	1.25	1.03	0.00
1.05	0.79	0.58	0.20	3.65	1.25	1.03	0.00
1.10	0.91	0.71	**0.21**	3.70	1.25	1.03	0.00
1.15	0.97	0.76	0.15	3.75	1.25	1.03	0.00
1.20	1.02	0.81	0.09	3.80	1.25	1.03	0.00
1.25	1.05	0.84	0.06	3.85	1.25	1.03	0.00
1.30	1.07	0.86	0.05	3.90	1.25	1.03	0.00
1.35	1.09	0.88	0.03	3.95	1.25	1.03	0.00
1.40	1.11	0.90	0.03	4.00	1.25	1.03	0.00
1.45	1.13	0.92	0.03	4.05	1.25	1.03	0.00
1.50	1.15	0.94	0.03	4.10	1.25	1.03	0.00
1.55	1.17	0.95	0.03	4.15	1.25	1.03	0.00
1.60	1.18	0.97	0.02	4.20	1.25	1.03	0.00
1.65	1.20	0.98	0.02	4.25	1.25	1.03	0.00
1.70	1.21	1.00	0.02	4.30	1.25	1.03	0.00
1.75	1.23	1.01	0.02	4.35	1.25	1.03	0.00
1.80	1.23	1.02	0.02	4.40	1.25	1.03	0.00
1.85	1.24	1.02	0.01	4.45	1.25	1.03	0.00
1.90	1.24	1.02	0.01	4.50	1.25	1.03	0.00
1.95	1.25	1.03	0.01	4.55	1.25	1.03	0.00
2.00	**1.25**	**1.03**	0.01	4.60	1.25	1.03	0.00
2.05	1.25	1.03	0.01	4.65	1.25	1.03	0.00
2.10	1.25	1.03	0.00	4.70	1.25	1.03	0.00
2.15	1.25	1.03	0.00	4.75	1.25	1.03	0.00
2.20	1.25	1.03	0.00	4.80	1.25	1.03	0.00
2.25	1.25	1.03	0.00	4.85	1.25	1.03	0.00
2.30	1.25	1.03	0.00	4.90	1.25	1.03	0.00
2.35	1.25	1.03	0.00	4.95	1.25	1.03	0.00
2.40	1.25	1.03	0.00	5.00	1.25	1.03	0.00
2.45	1.25	1.03	0.00	5.05	1.25	1.03	0.00
2.50	1.25	1.03	0.00	5.10	1.25	1.03	0.00
2.55	1.25	1.03	0.00	5.15	1.25	1.03	0.00

Hydrograph for Subcatchment 1S: PDA3 IMP WQU 101 (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	1.25	1.03	0.00	7.80	1.25	1.03	0.00
5.25	1.25	1.03	0.00	7.85	1.25	1.03	0.00
5.30	1.25	1.03	0.00	7.90	1.25	1.03	0.00
5.35	1.25	1.03	0.00	7.95	1.25	1.03	0.00
5.40	1.25	1.03	0.00	8.00	1.25	1.03	0.00
5.45	1.25	1.03	0.00	8.05	1.25	1.03	0.00
5.50	1.25	1.03	0.00	8.10	1.25	1.03	0.00
5.55	1.25	1.03	0.00	8.15	1.25	1.03	0.00
5.60	1.25	1.03	0.00	8.20	1.25	1.03	0.00
5.65	1.25	1.03	0.00	8.25	1.25	1.03	0.00
5.70	1.25	1.03	0.00	8.30	1.25	1.03	0.00
5.75	1.25	1.03	0.00	8.35	1.25	1.03	0.00
5.80	1.25	1.03	0.00	8.40	1.25	1.03	0.00
5.85	1.25	1.03	0.00	8.45	1.25	1.03	0.00
5.90	1.25	1.03	0.00	8.50	1.25	1.03	0.00
5.95	1.25	1.03	0.00	8.55	1.25	1.03	0.00
6.00	1.25	1.03	0.00	8.60	1.25	1.03	0.00
6.05	1.25	1.03	0.00	8.65	1.25	1.03	0.00
6.10	1.25	1.03	0.00	8.70	1.25	1.03	0.00
6.15	1.25	1.03	0.00	8.75	1.25	1.03	0.00
6.20	1.25	1.03	0.00	8.80	1.25	1.03	0.00
6.25	1.25	1.03	0.00	8.85	1.25	1.03	0.00
6.30	1.25	1.03	0.00	8.90	1.25	1.03	0.00
6.35	1.25	1.03	0.00	8.95	1.25	1.03	0.00
6.40	1.25	1.03	0.00	9.00	1.25	1.03	0.00
6.45	1.25	1.03	0.00	9.05	1.25	1.03	0.00
6.50	1.25	1.03	0.00	9.10	1.25	1.03	0.00
6.55	1.25	1.03	0.00	9.15	1.25	1.03	0.00
6.60	1.25	1.03	0.00	9.20	1.25	1.03	0.00
6.65	1.25	1.03	0.00	9.25	1.25	1.03	0.00
6.70	1.25	1.03	0.00	9.30	1.25	1.03	0.00
6.75	1.25	1.03	0.00	9.35	1.25	1.03	0.00
6.80	1.25	1.03	0.00	9.40	1.25	1.03	0.00
6.85	1.25	1.03	0.00	9.45	1.25	1.03	0.00
6.90	1.25	1.03	0.00	9.50	1.25	1.03	0.00
6.95	1.25	1.03	0.00	9.55	1.25	1.03	0.00
7.00	1.25	1.03	0.00	9.60	1.25	1.03	0.00
7.05	1.25	1.03	0.00	9.65	1.25	1.03	0.00
7.10	1.25	1.03	0.00	9.70	1.25	1.03	0.00
7.15	1.25	1.03	0.00	9.75	1.25	1.03	0.00
7.20	1.25	1.03	0.00	9.80	1.25	1.03	0.00
7.25	1.25	1.03	0.00	9.85	1.25	1.03	0.00
7.30	1.25	1.03	0.00	9.90	1.25	1.03	0.00
7.35	1.25	1.03	0.00	9.95	1.25	1.03	0.00
7.40	1.25	1.03	0.00	10.00	1.25	1.03	0.00
7.45	1.25	1.03	0.00	10.05	1.25	1.03	0.00
7.50	1.25	1.03	0.00	10.10	1.25	1.03	0.00
7.55	1.25	1.03	0.00	10.15	1.25	1.03	0.00
7.60	1.25	1.03	0.00	10.20	1.25	1.03	0.00
7.65	1.25	1.03	0.00	10.25	1.25	1.03	0.00
7.70	1.25	1.03	0.00	10.30	1.25	1.03	0.00
7.75	1.25	1.03	0.00	10.35	1.25	1.03	0.00

Hydrograph for Subcatchment 1S: PDA3 IMP WQU 101 (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.25	1.03	0.00	13.00	1.25	1.03	0.00
10.45	1.25	1.03	0.00	13.05	1.25	1.03	0.00
10.50	1.25	1.03	0.00	13.10	1.25	1.03	0.00
10.55	1.25	1.03	0.00	13.15	1.25	1.03	0.00
10.60	1.25	1.03	0.00	13.20	1.25	1.03	0.00
10.65	1.25	1.03	0.00	13.25	1.25	1.03	0.00
10.70	1.25	1.03	0.00	13.30	1.25	1.03	0.00
10.75	1.25	1.03	0.00	13.35	1.25	1.03	0.00
10.80	1.25	1.03	0.00	13.40	1.25	1.03	0.00
10.85	1.25	1.03	0.00	13.45	1.25	1.03	0.00
10.90	1.25	1.03	0.00	13.50	1.25	1.03	0.00
10.95	1.25	1.03	0.00	13.55	1.25	1.03	0.00
11.00	1.25	1.03	0.00	13.60	1.25	1.03	0.00
11.05	1.25	1.03	0.00	13.65	1.25	1.03	0.00
11.10	1.25	1.03	0.00	13.70	1.25	1.03	0.00
11.15	1.25	1.03	0.00	13.75	1.25	1.03	0.00
11.20	1.25	1.03	0.00	13.80	1.25	1.03	0.00
11.25	1.25	1.03	0.00	13.85	1.25	1.03	0.00
11.30	1.25	1.03	0.00	13.90	1.25	1.03	0.00
11.35	1.25	1.03	0.00	13.95	1.25	1.03	0.00
11.40	1.25	1.03	0.00	14.00	1.25	1.03	0.00
11.45	1.25	1.03	0.00	14.05	1.25	1.03	0.00
11.50	1.25	1.03	0.00	14.10	1.25	1.03	0.00
11.55	1.25	1.03	0.00	14.15	1.25	1.03	0.00
11.60	1.25	1.03	0.00	14.20	1.25	1.03	0.00
11.65	1.25	1.03	0.00	14.25	1.25	1.03	0.00
11.70	1.25	1.03	0.00	14.30	1.25	1.03	0.00
11.75	1.25	1.03	0.00	14.35	1.25	1.03	0.00
11.80	1.25	1.03	0.00	14.40	1.25	1.03	0.00
11.85	1.25	1.03	0.00	14.45	1.25	1.03	0.00
11.90	1.25	1.03	0.00	14.50	1.25	1.03	0.00
11.95	1.25	1.03	0.00	14.55	1.25	1.03	0.00
12.00	1.25	1.03	0.00	14.60	1.25	1.03	0.00
12.05	1.25	1.03	0.00	14.65	1.25	1.03	0.00
12.10	1.25	1.03	0.00	14.70	1.25	1.03	0.00
12.15	1.25	1.03	0.00	14.75	1.25	1.03	0.00
12.20	1.25	1.03	0.00	14.80	1.25	1.03	0.00
12.25	1.25	1.03	0.00	14.85	1.25	1.03	0.00
12.30	1.25	1.03	0.00	14.90	1.25	1.03	0.00
12.35	1.25	1.03	0.00	14.95	1.25	1.03	0.00
12.40	1.25	1.03	0.00	15.00	1.25	1.03	0.00
12.45	1.25	1.03	0.00	15.05	1.25	1.03	0.00
12.50	1.25	1.03	0.00	15.10	1.25	1.03	0.00
12.55	1.25	1.03	0.00	15.15	1.25	1.03	0.00
12.60	1.25	1.03	0.00	15.20	1.25	1.03	0.00
12.65	1.25	1.03	0.00	15.25	1.25	1.03	0.00
12.70	1.25	1.03	0.00	15.30	1.25	1.03	0.00
12.75	1.25	1.03	0.00	15.35	1.25	1.03	0.00
12.80	1.25	1.03	0.00	15.40	1.25	1.03	0.00
12.85	1.25	1.03	0.00	15.45	1.25	1.03	0.00
12.90	1.25	1.03	0.00	15.50	1.25	1.03	0.00
12.95	1.25	1.03	0.00	15.55	1.25	1.03	0.00

Hydrograph for Subcatchment 1S: PDA3 IMP WQU 101 (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	1.25	1.03	0.00	18.20	1.25	1.03	0.00
15.65	1.25	1.03	0.00	18.25	1.25	1.03	0.00
15.70	1.25	1.03	0.00	18.30	1.25	1.03	0.00
15.75	1.25	1.03	0.00	18.35	1.25	1.03	0.00
15.80	1.25	1.03	0.00	18.40	1.25	1.03	0.00
15.85	1.25	1.03	0.00	18.45	1.25	1.03	0.00
15.90	1.25	1.03	0.00	18.50	1.25	1.03	0.00
15.95	1.25	1.03	0.00	18.55	1.25	1.03	0.00
16.00	1.25	1.03	0.00	18.60	1.25	1.03	0.00
16.05	1.25	1.03	0.00	18.65	1.25	1.03	0.00
16.10	1.25	1.03	0.00	18.70	1.25	1.03	0.00
16.15	1.25	1.03	0.00	18.75	1.25	1.03	0.00
16.20	1.25	1.03	0.00	18.80	1.25	1.03	0.00
16.25	1.25	1.03	0.00	18.85	1.25	1.03	0.00
16.30	1.25	1.03	0.00	18.90	1.25	1.03	0.00
16.35	1.25	1.03	0.00	18.95	1.25	1.03	0.00
16.40	1.25	1.03	0.00	19.00	1.25	1.03	0.00
16.45	1.25	1.03	0.00	19.05	1.25	1.03	0.00
16.50	1.25	1.03	0.00	19.10	1.25	1.03	0.00
16.55	1.25	1.03	0.00	19.15	1.25	1.03	0.00
16.60	1.25	1.03	0.00	19.20	1.25	1.03	0.00
16.65	1.25	1.03	0.00	19.25	1.25	1.03	0.00
16.70	1.25	1.03	0.00	19.30	1.25	1.03	0.00
16.75	1.25	1.03	0.00	19.35	1.25	1.03	0.00
16.80	1.25	1.03	0.00	19.40	1.25	1.03	0.00
16.85	1.25	1.03	0.00	19.45	1.25	1.03	0.00
16.90	1.25	1.03	0.00	19.50	1.25	1.03	0.00
16.95	1.25	1.03	0.00	19.55	1.25	1.03	0.00
17.00	1.25	1.03	0.00	19.60	1.25	1.03	0.00
17.05	1.25	1.03	0.00	19.65	1.25	1.03	0.00
17.10	1.25	1.03	0.00	19.70	1.25	1.03	0.00
17.15	1.25	1.03	0.00	19.75	1.25	1.03	0.00
17.20	1.25	1.03	0.00	19.80	1.25	1.03	0.00
17.25	1.25	1.03	0.00	19.85	1.25	1.03	0.00
17.30	1.25	1.03	0.00	19.90	1.25	1.03	0.00
17.35	1.25	1.03	0.00	19.95	1.25	1.03	0.00
17.40	1.25	1.03	0.00	20.00	1.25	1.03	0.00
17.45	1.25	1.03	0.00	20.05	1.25	1.03	0.00
17.50	1.25	1.03	0.00	20.10	1.25	1.03	0.00
17.55	1.25	1.03	0.00	20.15	1.25	1.03	0.00
17.60	1.25	1.03	0.00	20.20	1.25	1.03	0.00
17.65	1.25	1.03	0.00	20.25	1.25	1.03	0.00
17.70	1.25	1.03	0.00	20.30	1.25	1.03	0.00
17.75	1.25	1.03	0.00	20.35	1.25	1.03	0.00
17.80	1.25	1.03	0.00	20.40	1.25	1.03	0.00
17.85	1.25	1.03	0.00	20.45	1.25	1.03	0.00
17.90	1.25	1.03	0.00	20.50	1.25	1.03	0.00
17.95	1.25	1.03	0.00	20.55	1.25	1.03	0.00
18.00	1.25	1.03	0.00	20.60	1.25	1.03	0.00
18.05	1.25	1.03	0.00	20.65	1.25	1.03	0.00
18.10	1.25	1.03	0.00	20.70	1.25	1.03	0.00
18.15	1.25	1.03	0.00	20.75	1.25	1.03	0.00

Hydrograph for Subcatchment 1S: PDA3 IMP WQU 101 (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	1.25	1.03	0.00	23.40	1.25	1.03	0.00
20.85	1.25	1.03	0.00	23.45	1.25	1.03	0.00
20.90	1.25	1.03	0.00	23.50	1.25	1.03	0.00
20.95	1.25	1.03	0.00	23.55	1.25	1.03	0.00
21.00	1.25	1.03	0.00	23.60	1.25	1.03	0.00
21.05	1.25	1.03	0.00	23.65	1.25	1.03	0.00
21.10	1.25	1.03	0.00	23.70	1.25	1.03	0.00
21.15	1.25	1.03	0.00	23.75	1.25	1.03	0.00
21.20	1.25	1.03	0.00	23.80	1.25	1.03	0.00
21.25	1.25	1.03	0.00	23.85	1.25	1.03	0.00
21.30	1.25	1.03	0.00	23.90	1.25	1.03	0.00
21.35	1.25	1.03	0.00	23.95	1.25	1.03	0.00
21.40	1.25	1.03	0.00	24.00	1.25	1.03	0.00
21.45	1.25	1.03	0.00				
21.50	1.25	1.03	0.00				
21.55	1.25	1.03	0.00				
21.60	1.25	1.03	0.00				
21.65	1.25	1.03	0.00				
21.70	1.25	1.03	0.00				
21.75	1.25	1.03	0.00				
21.80	1.25	1.03	0.00				
21.85	1.25	1.03	0.00				
21.90	1.25	1.03	0.00				
21.95	1.25	1.03	0.00				
22.00	1.25	1.03	0.00				
22.05	1.25	1.03	0.00				
22.10	1.25	1.03	0.00				
22.15	1.25	1.03	0.00				
22.20	1.25	1.03	0.00				
22.25	1.25	1.03	0.00				
22.30	1.25	1.03	0.00				
22.35	1.25	1.03	0.00				
22.40	1.25	1.03	0.00				
22.45	1.25	1.03	0.00				
22.50	1.25	1.03	0.00				
22.55	1.25	1.03	0.00				
22.60	1.25	1.03	0.00				
22.65	1.25	1.03	0.00				
22.70	1.25	1.03	0.00				
22.75	1.25	1.03	0.00				
22.80	1.25	1.03	0.00				
22.85	1.25	1.03	0.00				
22.90	1.25	1.03	0.00				
22.95	1.25	1.03	0.00				
23.00	1.25	1.03	0.00				
23.05	1.25	1.03	0.00				
23.10	1.25	1.03	0.00				
23.15	1.25	1.03	0.00				
23.20	1.25	1.03	0.00				
23.25	1.25	1.03	0.00				
23.30	1.25	1.03	0.00				
23.35	1.25	1.03	0.00				

Summary for Subcatchment PDA1A IMP: PDA1A IMP

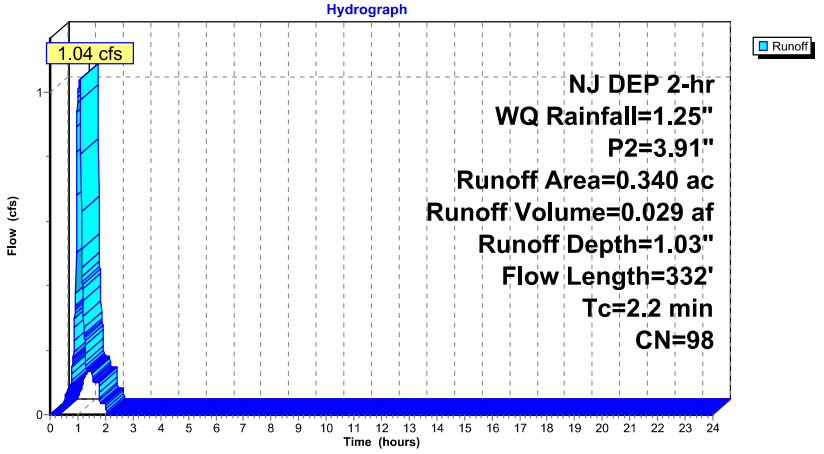
Runoff = 1.04 cfs @ 1.08 hrs, Volume= 0.029 af, Depth= 1.03"
Routed to Link P1A : P1A IMP WQU 121

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr WQ Rainfall=1.25", P2=3.91"

	Area (ac)	CN	Description
*	0.340	98	Impervious vehicular
	0.340		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0160	1.39		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.4	47	0.0100	2.03		**Shallow Concentrated Flow, paved** Paved Kv= 20.3 fps
0.6	185	0.0057	5.47	26.84	**Pipe Channel, RCP_Round 30"** 30.0" Round Area= 4.9 sf Perim= 7.9' r= 0.63' n= 0.015
2.2	332	Total			

Subcatchment PDA1A IMP: PDA1A IMP



Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	1.25	1.03	0.00
0.05	0.00	0.00	0.00	2.65	1.25	1.03	0.00
0.10	0.01	0.00	0.00	2.70	1.25	1.03	0.00
0.15	0.01	0.00	0.00	2.75	1.25	1.03	0.00
0.20	0.02	0.00	0.00	2.80	1.25	1.03	0.00
0.25	0.03	0.00	0.00	2.85	1.25	1.03	0.00
0.30	0.04	0.00	0.00	2.90	1.25	1.03	0.00
0.35	0.06	0.00	0.00	2.95	1.25	1.03	0.00
0.40	0.07	0.00	0.02	3.00	1.25	1.03	0.00
0.45	0.09	0.01	0.03	3.05	1.25	1.03	0.00
0.50	0.10	0.01	0.04	3.10	1.25	1.03	0.00
0.55	0.12	0.02	0.06	3.15	1.25	1.03	0.00
0.60	0.14	0.03	0.07	3.20	1.25	1.03	0.00
0.65	0.16	0.04	0.08	3.25	1.25	1.03	0.00
0.70	0.18	0.06	0.08	3.30	1.25	1.03	0.00
0.75	0.20	0.07	0.09	3.35	1.25	1.03	0.00
0.80	0.23	0.09	0.16	3.40	1.25	1.03	0.00
0.85	0.28	0.13	0.19	3.45	1.25	1.03	0.00
0.90	0.34	0.18	0.32	3.50	1.25	1.03	0.00
0.95	0.46	0.29	0.68	3.55	1.25	1.03	0.00
1.00	0.63	0.43	0.99	3.60	1.25	1.03	0.00
1.05	0.79	0.58	**1.03**	3.65	1.25	1.03	0.00
1.10	0.91	0.71	**0.98**	3.70	1.25	1.03	0.00
1.15	0.97	0.76	0.43	3.75	1.25	1.03	0.00
1.20	1.02	0.81	0.31	3.80	1.25	1.03	0.00
1.25	1.05	0.84	0.24	3.85	1.25	1.03	0.00
1.30	1.07	0.86	0.15	3.90	1.25	1.03	0.00
1.35	1.09	0.88	0.14	3.95	1.25	1.03	0.00
1.40	1.11	0.90	0.13	4.00	1.25	1.03	0.00
1.45	1.13	0.92	0.13	4.05	1.25	1.03	0.00
1.50	1.15	0.94	0.13	4.10	1.25	1.03	0.00
1.55	1.17	0.95	0.11	4.15	1.25	1.03	0.00
1.60	1.18	0.97	0.10	4.20	1.25	1.03	0.00
1.65	1.20	0.98	0.10	4.25	1.25	1.03	0.00
1.70	1.21	1.00	0.10	4.30	1.25	1.03	0.00
1.75	1.23	1.01	0.10	4.35	1.25	1.03	0.00
1.80	1.23	1.02	0.04	4.40	1.25	1.03	0.00
1.85	1.24	1.02	0.03	4.45	1.25	1.03	0.00
1.90	1.24	1.02	0.03	4.50	1.25	1.03	0.00
1.95	1.25	1.03	0.03	4.55	1.25	1.03	0.00
2.00	**1.25**	**1.03**	0.03	4.60	1.25	1.03	0.00
2.05	1.25	1.03	0.00	4.65	1.25	1.03	0.00
2.10	1.25	1.03	0.00	4.70	1.25	1.03	0.00
2.15	1.25	1.03	0.00	4.75	1.25	1.03	0.00
2.20	1.25	1.03	0.00	4.80	1.25	1.03	0.00
2.25	1.25	1.03	0.00	4.85	1.25	1.03	0.00
2.30	1.25	1.03	0.00	4.90	1.25	1.03	0.00
2.35	1.25	1.03	0.00	4.95	1.25	1.03	0.00
2.40	1.25	1.03	0.00	5.00	1.25	1.03	0.00
2.45	1.25	1.03	0.00	5.05	1.25	1.03	0.00
2.50	1.25	1.03	0.00	5.10	1.25	1.03	0.00
2.55	1.25	1.03	0.00	5.15	1.25	1.03	0.00

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	1.25	1.03	0.00	7.80	1.25	1.03	0.00
5.25	1.25	1.03	0.00	7.85	1.25	1.03	0.00
5.30	1.25	1.03	0.00	7.90	1.25	1.03	0.00
5.35	1.25	1.03	0.00	7.95	1.25	1.03	0.00
5.40	1.25	1.03	0.00	8.00	1.25	1.03	0.00
5.45	1.25	1.03	0.00	8.05	1.25	1.03	0.00
5.50	1.25	1.03	0.00	8.10	1.25	1.03	0.00
5.55	1.25	1.03	0.00	8.15	1.25	1.03	0.00
5.60	1.25	1.03	0.00	8.20	1.25	1.03	0.00
5.65	1.25	1.03	0.00	8.25	1.25	1.03	0.00
5.70	1.25	1.03	0.00	8.30	1.25	1.03	0.00
5.75	1.25	1.03	0.00	8.35	1.25	1.03	0.00
5.80	1.25	1.03	0.00	8.40	1.25	1.03	0.00
5.85	1.25	1.03	0.00	8.45	1.25	1.03	0.00
5.90	1.25	1.03	0.00	8.50	1.25	1.03	0.00
5.95	1.25	1.03	0.00	8.55	1.25	1.03	0.00
6.00	1.25	1.03	0.00	8.60	1.25	1.03	0.00
6.05	1.25	1.03	0.00	8.65	1.25	1.03	0.00
6.10	1.25	1.03	0.00	8.70	1.25	1.03	0.00
6.15	1.25	1.03	0.00	8.75	1.25	1.03	0.00
6.20	1.25	1.03	0.00	8.80	1.25	1.03	0.00
6.25	1.25	1.03	0.00	8.85	1.25	1.03	0.00
6.30	1.25	1.03	0.00	8.90	1.25	1.03	0.00
6.35	1.25	1.03	0.00	8.95	1.25	1.03	0.00
6.40	1.25	1.03	0.00	9.00	1.25	1.03	0.00
6.45	1.25	1.03	0.00	9.05	1.25	1.03	0.00
6.50	1.25	1.03	0.00	9.10	1.25	1.03	0.00
6.55	1.25	1.03	0.00	9.15	1.25	1.03	0.00
6.60	1.25	1.03	0.00	9.20	1.25	1.03	0.00
6.65	1.25	1.03	0.00	9.25	1.25	1.03	0.00
6.70	1.25	1.03	0.00	9.30	1.25	1.03	0.00
6.75	1.25	1.03	0.00	9.35	1.25	1.03	0.00
6.80	1.25	1.03	0.00	9.40	1.25	1.03	0.00
6.85	1.25	1.03	0.00	9.45	1.25	1.03	0.00
6.90	1.25	1.03	0.00	9.50	1.25	1.03	0.00
6.95	1.25	1.03	0.00	9.55	1.25	1.03	0.00
7.00	1.25	1.03	0.00	9.60	1.25	1.03	0.00
7.05	1.25	1.03	0.00	9.65	1.25	1.03	0.00
7.10	1.25	1.03	0.00	9.70	1.25	1.03	0.00
7.15	1.25	1.03	0.00	9.75	1.25	1.03	0.00
7.20	1.25	1.03	0.00	9.80	1.25	1.03	0.00
7.25	1.25	1.03	0.00	9.85	1.25	1.03	0.00
7.30	1.25	1.03	0.00	9.90	1.25	1.03	0.00
7.35	1.25	1.03	0.00	9.95	1.25	1.03	0.00
7.40	1.25	1.03	0.00	10.00	1.25	1.03	0.00
7.45	1.25	1.03	0.00	10.05	1.25	1.03	0.00
7.50	1.25	1.03	0.00	10.10	1.25	1.03	0.00
7.55	1.25	1.03	0.00	10.15	1.25	1.03	0.00
7.60	1.25	1.03	0.00	10.20	1.25	1.03	0.00
7.65	1.25	1.03	0.00	10.25	1.25	1.03	0.00
7.70	1.25	1.03	0.00	10.30	1.25	1.03	0.00
7.75	1.25	1.03	0.00	10.35	1.25	1.03	0.00

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.25	1.03	0.00	13.00	1.25	1.03	0.00
10.45	1.25	1.03	0.00	13.05	1.25	1.03	0.00
10.50	1.25	1.03	0.00	13.10	1.25	1.03	0.00
10.55	1.25	1.03	0.00	13.15	1.25	1.03	0.00
10.60	1.25	1.03	0.00	13.20	1.25	1.03	0.00
10.65	1.25	1.03	0.00	13.25	1.25	1.03	0.00
10.70	1.25	1.03	0.00	13.30	1.25	1.03	0.00
10.75	1.25	1.03	0.00	13.35	1.25	1.03	0.00
10.80	1.25	1.03	0.00	13.40	1.25	1.03	0.00
10.85	1.25	1.03	0.00	13.45	1.25	1.03	0.00
10.90	1.25	1.03	0.00	13.50	1.25	1.03	0.00
10.95	1.25	1.03	0.00	13.55	1.25	1.03	0.00
11.00	1.25	1.03	0.00	13.60	1.25	1.03	0.00
11.05	1.25	1.03	0.00	13.65	1.25	1.03	0.00
11.10	1.25	1.03	0.00	13.70	1.25	1.03	0.00
11.15	1.25	1.03	0.00	13.75	1.25	1.03	0.00
11.20	1.25	1.03	0.00	13.80	1.25	1.03	0.00
11.25	1.25	1.03	0.00	13.85	1.25	1.03	0.00
11.30	1.25	1.03	0.00	13.90	1.25	1.03	0.00
11.35	1.25	1.03	0.00	13.95	1.25	1.03	0.00
11.40	1.25	1.03	0.00	14.00	1.25	1.03	0.00
11.45	1.25	1.03	0.00	14.05	1.25	1.03	0.00
11.50	1.25	1.03	0.00	14.10	1.25	1.03	0.00
11.55	1.25	1.03	0.00	14.15	1.25	1.03	0.00
11.60	1.25	1.03	0.00	14.20	1.25	1.03	0.00
11.65	1.25	1.03	0.00	14.25	1.25	1.03	0.00
11.70	1.25	1.03	0.00	14.30	1.25	1.03	0.00
11.75	1.25	1.03	0.00	14.35	1.25	1.03	0.00
11.80	1.25	1.03	0.00	14.40	1.25	1.03	0.00
11.85	1.25	1.03	0.00	14.45	1.25	1.03	0.00
11.90	1.25	1.03	0.00	14.50	1.25	1.03	0.00
11.95	1.25	1.03	0.00	14.55	1.25	1.03	0.00
12.00	1.25	1.03	0.00	14.60	1.25	1.03	0.00
12.05	1.25	1.03	0.00	14.65	1.25	1.03	0.00
12.10	1.25	1.03	0.00	14.70	1.25	1.03	0.00
12.15	1.25	1.03	0.00	14.75	1.25	1.03	0.00
12.20	1.25	1.03	0.00	14.80	1.25	1.03	0.00
12.25	1.25	1.03	0.00	14.85	1.25	1.03	0.00
12.30	1.25	1.03	0.00	14.90	1.25	1.03	0.00
12.35	1.25	1.03	0.00	14.95	1.25	1.03	0.00
12.40	1.25	1.03	0.00	15.00	1.25	1.03	0.00
12.45	1.25	1.03	0.00	15.05	1.25	1.03	0.00
12.50	1.25	1.03	0.00	15.10	1.25	1.03	0.00
12.55	1.25	1.03	0.00	15.15	1.25	1.03	0.00
12.60	1.25	1.03	0.00	15.20	1.25	1.03	0.00
12.65	1.25	1.03	0.00	15.25	1.25	1.03	0.00
12.70	1.25	1.03	0.00	15.30	1.25	1.03	0.00
12.75	1.25	1.03	0.00	15.35	1.25	1.03	0.00
12.80	1.25	1.03	0.00	15.40	1.25	1.03	0.00
12.85	1.25	1.03	0.00	15.45	1.25	1.03	0.00
12.90	1.25	1.03	0.00	15.50	1.25	1.03	0.00
12.95	1.25	1.03	0.00	15.55	1.25	1.03	0.00

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	1.25	1.03	0.00	18.20	1.25	1.03	0.00
15.65	1.25	1.03	0.00	18.25	1.25	1.03	0.00
15.70	1.25	1.03	0.00	18.30	1.25	1.03	0.00
15.75	1.25	1.03	0.00	18.35	1.25	1.03	0.00
15.80	1.25	1.03	0.00	18.40	1.25	1.03	0.00
15.85	1.25	1.03	0.00	18.45	1.25	1.03	0.00
15.90	1.25	1.03	0.00	18.50	1.25	1.03	0.00
15.95	1.25	1.03	0.00	18.55	1.25	1.03	0.00
16.00	1.25	1.03	0.00	18.60	1.25	1.03	0.00
16.05	1.25	1.03	0.00	18.65	1.25	1.03	0.00
16.10	1.25	1.03	0.00	18.70	1.25	1.03	0.00
16.15	1.25	1.03	0.00	18.75	1.25	1.03	0.00
16.20	1.25	1.03	0.00	18.80	1.25	1.03	0.00
16.25	1.25	1.03	0.00	18.85	1.25	1.03	0.00
16.30	1.25	1.03	0.00	18.90	1.25	1.03	0.00
16.35	1.25	1.03	0.00	18.95	1.25	1.03	0.00
16.40	1.25	1.03	0.00	19.00	1.25	1.03	0.00
16.45	1.25	1.03	0.00	19.05	1.25	1.03	0.00
16.50	1.25	1.03	0.00	19.10	1.25	1.03	0.00
16.55	1.25	1.03	0.00	19.15	1.25	1.03	0.00
16.60	1.25	1.03	0.00	19.20	1.25	1.03	0.00
16.65	1.25	1.03	0.00	19.25	1.25	1.03	0.00
16.70	1.25	1.03	0.00	19.30	1.25	1.03	0.00
16.75	1.25	1.03	0.00	19.35	1.25	1.03	0.00
16.80	1.25	1.03	0.00	19.40	1.25	1.03	0.00
16.85	1.25	1.03	0.00	19.45	1.25	1.03	0.00
16.90	1.25	1.03	0.00	19.50	1.25	1.03	0.00
16.95	1.25	1.03	0.00	19.55	1.25	1.03	0.00
17.00	1.25	1.03	0.00	19.60	1.25	1.03	0.00
17.05	1.25	1.03	0.00	19.65	1.25	1.03	0.00
17.10	1.25	1.03	0.00	19.70	1.25	1.03	0.00
17.15	1.25	1.03	0.00	19.75	1.25	1.03	0.00
17.20	1.25	1.03	0.00	19.80	1.25	1.03	0.00
17.25	1.25	1.03	0.00	19.85	1.25	1.03	0.00
17.30	1.25	1.03	0.00	19.90	1.25	1.03	0.00
17.35	1.25	1.03	0.00	19.95	1.25	1.03	0.00
17.40	1.25	1.03	0.00	20.00	1.25	1.03	0.00
17.45	1.25	1.03	0.00	20.05	1.25	1.03	0.00
17.50	1.25	1.03	0.00	20.10	1.25	1.03	0.00
17.55	1.25	1.03	0.00	20.15	1.25	1.03	0.00
17.60	1.25	1.03	0.00	20.20	1.25	1.03	0.00
17.65	1.25	1.03	0.00	20.25	1.25	1.03	0.00
17.70	1.25	1.03	0.00	20.30	1.25	1.03	0.00
17.75	1.25	1.03	0.00	20.35	1.25	1.03	0.00
17.80	1.25	1.03	0.00	20.40	1.25	1.03	0.00
17.85	1.25	1.03	0.00	20.45	1.25	1.03	0.00
17.90	1.25	1.03	0.00	20.50	1.25	1.03	0.00
17.95	1.25	1.03	0.00	20.55	1.25	1.03	0.00
18.00	1.25	1.03	0.00	20.60	1.25	1.03	0.00
18.05	1.25	1.03	0.00	20.65	1.25	1.03	0.00
18.10	1.25	1.03	0.00	20.70	1.25	1.03	0.00
18.15	1.25	1.03	0.00	20.75	1.25	1.03	0.00

Hydrograph for Subcatchment PDA1A IMP: PDA1A IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	1.25	1.03	0.00	23.40	1.25	1.03	0.00
20.85	1.25	1.03	0.00	23.45	1.25	1.03	0.00
20.90	1.25	1.03	0.00	23.50	1.25	1.03	0.00
20.95	1.25	1.03	0.00	23.55	1.25	1.03	0.00
21.00	1.25	1.03	0.00	23.60	1.25	1.03	0.00
21.05	1.25	1.03	0.00	23.65	1.25	1.03	0.00
21.10	1.25	1.03	0.00	23.70	1.25	1.03	0.00
21.15	1.25	1.03	0.00	23.75	1.25	1.03	0.00
21.20	1.25	1.03	0.00	23.80	1.25	1.03	0.00
21.25	1.25	1.03	0.00	23.85	1.25	1.03	0.00
21.30	1.25	1.03	0.00	23.90	1.25	1.03	0.00
21.35	1.25	1.03	0.00	23.95	1.25	1.03	0.00
21.40	1.25	1.03	0.00	24.00	1.25	1.03	0.00
21.45	1.25	1.03	0.00				
21.50	1.25	1.03	0.00				
21.55	1.25	1.03	0.00				
21.60	1.25	1.03	0.00				
21.65	1.25	1.03	0.00				
21.70	1.25	1.03	0.00				
21.75	1.25	1.03	0.00				
21.80	1.25	1.03	0.00				
21.85	1.25	1.03	0.00				
21.90	1.25	1.03	0.00				
21.95	1.25	1.03	0.00				
22.00	1.25	1.03	0.00				
22.05	1.25	1.03	0.00				
22.10	1.25	1.03	0.00				
22.15	1.25	1.03	0.00				
22.20	1.25	1.03	0.00				
22.25	1.25	1.03	0.00				
22.30	1.25	1.03	0.00				
22.35	1.25	1.03	0.00				
22.40	1.25	1.03	0.00				
22.45	1.25	1.03	0.00				
22.50	1.25	1.03	0.00				
22.55	1.25	1.03	0.00				
22.60	1.25	1.03	0.00				
22.65	1.25	1.03	0.00				
22.70	1.25	1.03	0.00				
22.75	1.25	1.03	0.00				
22.80	1.25	1.03	0.00				
22.85	1.25	1.03	0.00				
22.90	1.25	1.03	0.00				
22.95	1.25	1.03	0.00				
23.00	1.25	1.03	0.00				
23.05	1.25	1.03	0.00				
23.10	1.25	1.03	0.00				
23.15	1.25	1.03	0.00				
23.20	1.25	1.03	0.00				
23.25	1.25	1.03	0.00				
23.30	1.25	1.03	0.00				
23.35	1.25	1.03	0.00				

Summary for Subcatchment PDA1B IMP: PDA1B IMP

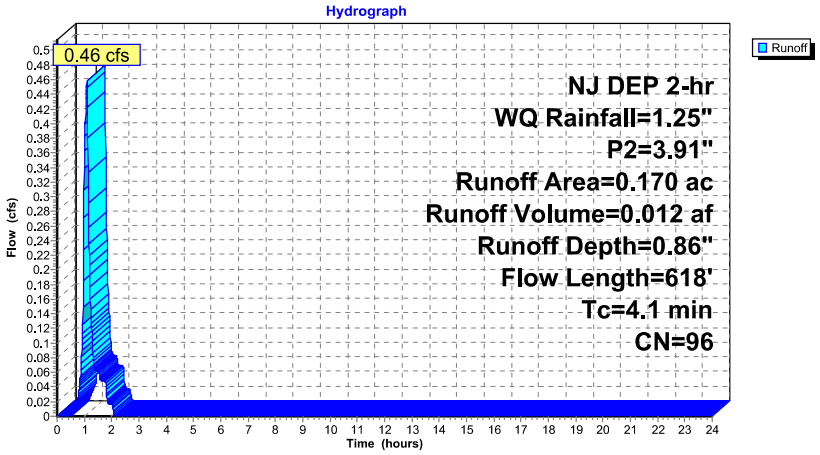
Runoff = 0.46 cfs @ 1.10 hrs, Volume= 0.012 af, Depth= 0.86"
Routed to Link P1B : P1B IMP WQU 209

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr WQ Rainfall=1.25", P2=3.91"

Area (ac)	CN	Description
0.170	96	Gravel surface, HSG A
0.170		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
0.2	8	0.0100	0.70		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.1	16	0.0150	1.84		**Shallow Concentrated Flow, grass** Grassed Waterway Kv= 15.0 fps
1.6	238	0.0024	2.52	4.46	**Pipe Channel, pipe 1** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.5	92	0.0031	2.87	5.07	**Pipe Channel, pipe 2** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.9	93	0.0011	1.71	3.02	**Pipe Channel, pipe 3** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	95	0.0075	4.46	7.88	**Pipe Channel, pipe 4** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.4	76	0.0046	3.49	6.17	**Pipe Channel, pipe 5** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
4.1	618	Total			

Subcatchment PDA1B IMP: PDA1B IMP



Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	1.25	0.86	0.00
0.05	0.00	0.00	0.00	2.65	1.25	0.86	0.00
0.10	0.01	0.00	0.00	2.70	1.25	0.86	0.00
0.15	0.01	0.00	0.00	2.75	1.25	0.86	0.00
0.20	0.02	0.00	0.00	2.80	1.25	0.86	0.00
0.25	0.03	0.00	0.00	2.85	1.25	0.86	0.00
0.30	0.04	0.00	0.00	2.90	1.25	0.86	0.00
0.35	0.06	0.00	0.00	2.95	1.25	0.86	0.00
0.40	0.07	0.00	0.00	3.00	1.25	0.86	0.00
0.45	0.09	0.00	0.00	3.05	1.25	0.86	0.00
0.50	0.10	0.00	0.00	3.10	1.25	0.86	0.00
0.55	0.12	0.00	0.00	3.15	1.25	0.86	0.00
0.60	0.14	0.01	0.01	3.20	1.25	0.86	0.00
0.65	0.16	0.01	0.01	3.25	1.25	0.86	0.00
0.70	0.18	0.02	0.02	3.30	1.25	0.86	0.00
0.75	0.20	0.03	0.02	3.35	1.25	0.86	0.00
0.80	0.23	0.04	0.03	3.40	1.25	0.86	0.00
0.85	0.28	0.06	0.05	3.45	1.25	0.86	0.00
0.90	0.34	0.10	0.09	3.50	1.25	0.86	0.00
0.95	0.46	0.18	0.15	3.55	1.25	0.86	0.00
1.00	0.63	0.31	0.34	3.60	1.25	0.86	0.00
1.05	0.79	0.44	0.42	3.65	1.25	0.86	0.00
1.10	0.91	0.55	**0.46**	3.70	1.25	0.86	0.00
1.15	0.97	0.60	0.29	3.75	1.25	0.86	0.00
1.20	1.02	0.64	0.19	3.80	1.25	0.86	0.00
1.25	1.05	0.68	0.13	3.85	1.25	0.86	0.00
1.30	1.07	0.69	0.09	3.90	1.25	0.86	0.00
1.35	1.09	0.71	0.07	3.95	1.25	0.86	0.00
1.40	1.11	0.73	0.06	4.00	1.25	0.86	0.00
1.45	1.13	0.75	0.06	4.05	1.25	0.86	0.00
1.50	1.15	0.77	0.06	4.10	1.25	0.86	0.00
1.55	1.17	0.78	0.06	4.15	1.25	0.86	0.00
1.60	1.18	0.79	0.05	4.20	1.25	0.86	0.00
1.65	1.20	0.81	0.05	4.25	1.25	0.86	0.00
1.70	1.21	0.82	0.05	4.30	1.25	0.86	0.00
1.75	1.23	0.84	0.05	4.35	1.25	0.86	0.00
1.80	1.23	0.84	0.04	4.40	1.25	0.86	0.00
1.85	1.24	0.85	0.02	4.45	1.25	0.86	0.00
1.90	1.24	0.85	0.02	4.50	1.25	0.86	0.00
1.95	1.25	0.86	0.02	4.55	1.25	0.86	0.00
2.00	**1.25**	**0.86**	0.02	4.60	1.25	0.86	0.00
2.05	1.25	0.86	0.01	4.65	1.25	0.86	0.00
2.10	1.25	0.86	0.00	4.70	1.25	0.86	0.00
2.15	1.25	0.86	0.00	4.75	1.25	0.86	0.00
2.20	1.25	0.86	0.00	4.80	1.25	0.86	0.00
2.25	1.25	0.86	0.00	4.85	1.25	0.86	0.00
2.30	1.25	0.86	0.00	4.90	1.25	0.86	0.00
2.35	1.25	0.86	0.00	4.95	1.25	0.86	0.00
2.40	1.25	0.86	0.00	5.00	1.25	0.86	0.00
2.45	1.25	0.86	0.00	5.05	1.25	0.86	0.00
2.50	1.25	0.86	0.00	5.10	1.25	0.86	0.00
2.55	1.25	0.86	0.00	5.15	1.25	0.86	0.00

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	1.25	0.86	0.00	7.80	1.25	0.86	0.00
5.25	1.25	0.86	0.00	7.85	1.25	0.86	0.00
5.30	1.25	0.86	0.00	7.90	1.25	0.86	0.00
5.35	1.25	0.86	0.00	7.95	1.25	0.86	0.00
5.40	1.25	0.86	0.00	8.00	1.25	0.86	0.00
5.45	1.25	0.86	0.00	8.05	1.25	0.86	0.00
5.50	1.25	0.86	0.00	8.10	1.25	0.86	0.00
5.55	1.25	0.86	0.00	8.15	1.25	0.86	0.00
5.60	1.25	0.86	0.00	8.20	1.25	0.86	0.00
5.65	1.25	0.86	0.00	8.25	1.25	0.86	0.00
5.70	1.25	0.86	0.00	8.30	1.25	0.86	0.00
5.75	1.25	0.86	0.00	8.35	1.25	0.86	0.00
5.80	1.25	0.86	0.00	8.40	1.25	0.86	0.00
5.85	1.25	0.86	0.00	8.45	1.25	0.86	0.00
5.90	1.25	0.86	0.00	8.50	1.25	0.86	0.00
5.95	1.25	0.86	0.00	8.55	1.25	0.86	0.00
6.00	1.25	0.86	0.00	8.60	1.25	0.86	0.00
6.05	1.25	0.86	0.00	8.65	1.25	0.86	0.00
6.10	1.25	0.86	0.00	8.70	1.25	0.86	0.00
6.15	1.25	0.86	0.00	8.75	1.25	0.86	0.00
6.20	1.25	0.86	0.00	8.80	1.25	0.86	0.00
6.25	1.25	0.86	0.00	8.85	1.25	0.86	0.00
6.30	1.25	0.86	0.00	8.90	1.25	0.86	0.00
6.35	1.25	0.86	0.00	8.95	1.25	0.86	0.00
6.40	1.25	0.86	0.00	9.00	1.25	0.86	0.00
6.45	1.25	0.86	0.00	9.05	1.25	0.86	0.00
6.50	1.25	0.86	0.00	9.10	1.25	0.86	0.00
6.55	1.25	0.86	0.00	9.15	1.25	0.86	0.00
6.60	1.25	0.86	0.00	9.20	1.25	0.86	0.00
6.65	1.25	0.86	0.00	9.25	1.25	0.86	0.00
6.70	1.25	0.86	0.00	9.30	1.25	0.86	0.00
6.75	1.25	0.86	0.00	9.35	1.25	0.86	0.00
6.80	1.25	0.86	0.00	9.40	1.25	0.86	0.00
6.85	1.25	0.86	0.00	9.45	1.25	0.86	0.00
6.90	1.25	0.86	0.00	9.50	1.25	0.86	0.00
6.95	1.25	0.86	0.00	9.55	1.25	0.86	0.00
7.00	1.25	0.86	0.00	9.60	1.25	0.86	0.00
7.05	1.25	0.86	0.00	9.65	1.25	0.86	0.00
7.10	1.25	0.86	0.00	9.70	1.25	0.86	0.00
7.15	1.25	0.86	0.00	9.75	1.25	0.86	0.00
7.20	1.25	0.86	0.00	9.80	1.25	0.86	0.00
7.25	1.25	0.86	0.00	9.85	1.25	0.86	0.00
7.30	1.25	0.86	0.00	9.90	1.25	0.86	0.00
7.35	1.25	0.86	0.00	9.95	1.25	0.86	0.00
7.40	1.25	0.86	0.00	10.00	1.25	0.86	0.00
7.45	1.25	0.86	0.00	10.05	1.25	0.86	0.00
7.50	1.25	0.86	0.00	10.10	1.25	0.86	0.00
7.55	1.25	0.86	0.00	10.15	1.25	0.86	0.00
7.60	1.25	0.86	0.00	10.20	1.25	0.86	0.00
7.65	1.25	0.86	0.00	10.25	1.25	0.86	0.00
7.70	1.25	0.86	0.00	10.30	1.25	0.86	0.00
7.75	1.25	0.86	0.00	10.35	1.25	0.86	0.00

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.25	0.86	0.00	13.00	1.25	0.86	0.00
10.45	1.25	0.86	0.00	13.05	1.25	0.86	0.00
10.50	1.25	0.86	0.00	13.10	1.25	0.86	0.00
10.55	1.25	0.86	0.00	13.15	1.25	0.86	0.00
10.60	1.25	0.86	0.00	13.20	1.25	0.86	0.00
10.65	1.25	0.86	0.00	13.25	1.25	0.86	0.00
10.70	1.25	0.86	0.00	13.30	1.25	0.86	0.00
10.75	1.25	0.86	0.00	13.35	1.25	0.86	0.00
10.80	1.25	0.86	0.00	13.40	1.25	0.86	0.00
10.85	1.25	0.86	0.00	13.45	1.25	0.86	0.00
10.90	1.25	0.86	0.00	13.50	1.25	0.86	0.00
10.95	1.25	0.86	0.00	13.55	1.25	0.86	0.00
11.00	1.25	0.86	0.00	13.60	1.25	0.86	0.00
11.05	1.25	0.86	0.00	13.65	1.25	0.86	0.00
11.10	1.25	0.86	0.00	13.70	1.25	0.86	0.00
11.15	1.25	0.86	0.00	13.75	1.25	0.86	0.00
11.20	1.25	0.86	0.00	13.80	1.25	0.86	0.00
11.25	1.25	0.86	0.00	13.85	1.25	0.86	0.00
11.30	1.25	0.86	0.00	13.90	1.25	0.86	0.00
11.35	1.25	0.86	0.00	13.95	1.25	0.86	0.00
11.40	1.25	0.86	0.00	14.00	1.25	0.86	0.00
11.45	1.25	0.86	0.00	14.05	1.25	0.86	0.00
11.50	1.25	0.86	0.00	14.10	1.25	0.86	0.00
11.55	1.25	0.86	0.00	14.15	1.25	0.86	0.00
11.60	1.25	0.86	0.00	14.20	1.25	0.86	0.00
11.65	1.25	0.86	0.00	14.25	1.25	0.86	0.00
11.70	1.25	0.86	0.00	14.30	1.25	0.86	0.00
11.75	1.25	0.86	0.00	14.35	1.25	0.86	0.00
11.80	1.25	0.86	0.00	14.40	1.25	0.86	0.00
11.85	1.25	0.86	0.00	14.45	1.25	0.86	0.00
11.90	1.25	0.86	0.00	14.50	1.25	0.86	0.00
11.95	1.25	0.86	0.00	14.55	1.25	0.86	0.00
12.00	1.25	0.86	0.00	14.60	1.25	0.86	0.00
12.05	1.25	0.86	0.00	14.65	1.25	0.86	0.00
12.10	1.25	0.86	0.00	14.70	1.25	0.86	0.00
12.15	1.25	0.86	0.00	14.75	1.25	0.86	0.00
12.20	1.25	0.86	0.00	14.80	1.25	0.86	0.00
12.25	1.25	0.86	0.00	14.85	1.25	0.86	0.00
12.30	1.25	0.86	0.00	14.90	1.25	0.86	0.00
12.35	1.25	0.86	0.00	14.95	1.25	0.86	0.00
12.40	1.25	0.86	0.00	15.00	1.25	0.86	0.00
12.45	1.25	0.86	0.00	15.05	1.25	0.86	0.00
12.50	1.25	0.86	0.00	15.10	1.25	0.86	0.00
12.55	1.25	0.86	0.00	15.15	1.25	0.86	0.00
12.60	1.25	0.86	0.00	15.20	1.25	0.86	0.00
12.65	1.25	0.86	0.00	15.25	1.25	0.86	0.00
12.70	1.25	0.86	0.00	15.30	1.25	0.86	0.00
12.75	1.25	0.86	0.00	15.35	1.25	0.86	0.00
12.80	1.25	0.86	0.00	15.40	1.25	0.86	0.00
12.85	1.25	0.86	0.00	15.45	1.25	0.86	0.00
12.90	1.25	0.86	0.00	15.50	1.25	0.86	0.00
12.95	1.25	0.86	0.00	15.55	1.25	0.86	0.00

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	1.25	0.86	0.00	18.20	1.25	0.86	0.00
15.65	1.25	0.86	0.00	18.25	1.25	0.86	0.00
15.70	1.25	0.86	0.00	18.30	1.25	0.86	0.00
15.75	1.25	0.86	0.00	18.35	1.25	0.86	0.00
15.80	1.25	0.86	0.00	18.40	1.25	0.86	0.00
15.85	1.25	0.86	0.00	18.45	1.25	0.86	0.00
15.90	1.25	0.86	0.00	18.50	1.25	0.86	0.00
15.95	1.25	0.86	0.00	18.55	1.25	0.86	0.00
16.00	1.25	0.86	0.00	18.60	1.25	0.86	0.00
16.05	1.25	0.86	0.00	18.65	1.25	0.86	0.00
16.10	1.25	0.86	0.00	18.70	1.25	0.86	0.00
16.15	1.25	0.86	0.00	18.75	1.25	0.86	0.00
16.20	1.25	0.86	0.00	18.80	1.25	0.86	0.00
16.25	1.25	0.86	0.00	18.85	1.25	0.86	0.00
16.30	1.25	0.86	0.00	18.90	1.25	0.86	0.00
16.35	1.25	0.86	0.00	18.95	1.25	0.86	0.00
16.40	1.25	0.86	0.00	19.00	1.25	0.86	0.00
16.45	1.25	0.86	0.00	19.05	1.25	0.86	0.00
16.50	1.25	0.86	0.00	19.10	1.25	0.86	0.00
16.55	1.25	0.86	0.00	19.15	1.25	0.86	0.00
16.60	1.25	0.86	0.00	19.20	1.25	0.86	0.00
16.65	1.25	0.86	0.00	19.25	1.25	0.86	0.00
16.70	1.25	0.86	0.00	19.30	1.25	0.86	0.00
16.75	1.25	0.86	0.00	19.35	1.25	0.86	0.00
16.80	1.25	0.86	0.00	19.40	1.25	0.86	0.00
16.85	1.25	0.86	0.00	19.45	1.25	0.86	0.00
16.90	1.25	0.86	0.00	19.50	1.25	0.86	0.00
16.95	1.25	0.86	0.00	19.55	1.25	0.86	0.00
17.00	1.25	0.86	0.00	19.60	1.25	0.86	0.00
17.05	1.25	0.86	0.00	19.65	1.25	0.86	0.00
17.10	1.25	0.86	0.00	19.70	1.25	0.86	0.00
17.15	1.25	0.86	0.00	19.75	1.25	0.86	0.00
17.20	1.25	0.86	0.00	19.80	1.25	0.86	0.00
17.25	1.25	0.86	0.00	19.85	1.25	0.86	0.00
17.30	1.25	0.86	0.00	19.90	1.25	0.86	0.00
17.35	1.25	0.86	0.00	19.95	1.25	0.86	0.00
17.40	1.25	0.86	0.00	20.00	1.25	0.86	0.00
17.45	1.25	0.86	0.00	20.05	1.25	0.86	0.00
17.50	1.25	0.86	0.00	20.10	1.25	0.86	0.00
17.55	1.25	0.86	0.00	20.15	1.25	0.86	0.00
17.60	1.25	0.86	0.00	20.20	1.25	0.86	0.00
17.65	1.25	0.86	0.00	20.25	1.25	0.86	0.00
17.70	1.25	0.86	0.00	20.30	1.25	0.86	0.00
17.75	1.25	0.86	0.00	20.35	1.25	0.86	0.00
17.80	1.25	0.86	0.00	20.40	1.25	0.86	0.00
17.85	1.25	0.86	0.00	20.45	1.25	0.86	0.00
17.90	1.25	0.86	0.00	20.50	1.25	0.86	0.00
17.95	1.25	0.86	0.00	20.55	1.25	0.86	0.00
18.00	1.25	0.86	0.00	20.60	1.25	0.86	0.00
18.05	1.25	0.86	0.00	20.65	1.25	0.86	0.00
18.10	1.25	0.86	0.00	20.70	1.25	0.86	0.00
18.15	1.25	0.86	0.00	20.75	1.25	0.86	0.00

Hydrograph for Subcatchment PDA1B IMP: PDA1B IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	1.25	0.86	0.00	23.40	1.25	0.86	0.00
20.85	1.25	0.86	0.00	23.45	1.25	0.86	0.00
20.90	1.25	0.86	0.00	23.50	1.25	0.86	0.00
20.95	1.25	0.86	0.00	23.55	1.25	0.86	0.00
21.00	1.25	0.86	0.00	23.60	1.25	0.86	0.00
21.05	1.25	0.86	0.00	23.65	1.25	0.86	0.00
21.10	1.25	0.86	0.00	23.70	1.25	0.86	0.00
21.15	1.25	0.86	0.00	23.75	1.25	0.86	0.00
21.20	1.25	0.86	0.00	23.80	1.25	0.86	0.00
21.25	1.25	0.86	0.00	23.85	1.25	0.86	0.00
21.30	1.25	0.86	0.00	23.90	1.25	0.86	0.00
21.35	1.25	0.86	0.00	23.95	1.25	0.86	0.00
21.40	1.25	0.86	0.00	24.00	1.25	0.86	0.00
21.45	1.25	0.86	0.00				
21.50	1.25	0.86	0.00				
21.55	1.25	0.86	0.00				
21.60	1.25	0.86	0.00				
21.65	1.25	0.86	0.00				
21.70	1.25	0.86	0.00				
21.75	1.25	0.86	0.00				
21.80	1.25	0.86	0.00				
21.85	1.25	0.86	0.00				
21.90	1.25	0.86	0.00				
21.95	1.25	0.86	0.00				
22.00	1.25	0.86	0.00				
22.05	1.25	0.86	0.00				
22.10	1.25	0.86	0.00				
22.15	1.25	0.86	0.00				
22.20	1.25	0.86	0.00				
22.25	1.25	0.86	0.00				
22.30	1.25	0.86	0.00				
22.35	1.25	0.86	0.00				
22.40	1.25	0.86	0.00				
22.45	1.25	0.86	0.00				
22.50	1.25	0.86	0.00				
22.55	1.25	0.86	0.00				
22.60	1.25	0.86	0.00				
22.65	1.25	0.86	0.00				
22.70	1.25	0.86	0.00				
22.75	1.25	0.86	0.00				
22.80	1.25	0.86	0.00				
22.85	1.25	0.86	0.00				
22.90	1.25	0.86	0.00				
22.95	1.25	0.86	0.00				
23.00	1.25	0.86	0.00				
23.05	1.25	0.86	0.00				
23.10	1.25	0.86	0.00				
23.15	1.25	0.86	0.00				
23.20	1.25	0.86	0.00				
23.25	1.25	0.86	0.00				
23.30	1.25	0.86	0.00				
23.35	1.25	0.86	0.00				

Summary for Subcatchment PDA2 IMP: PDA2 IMP

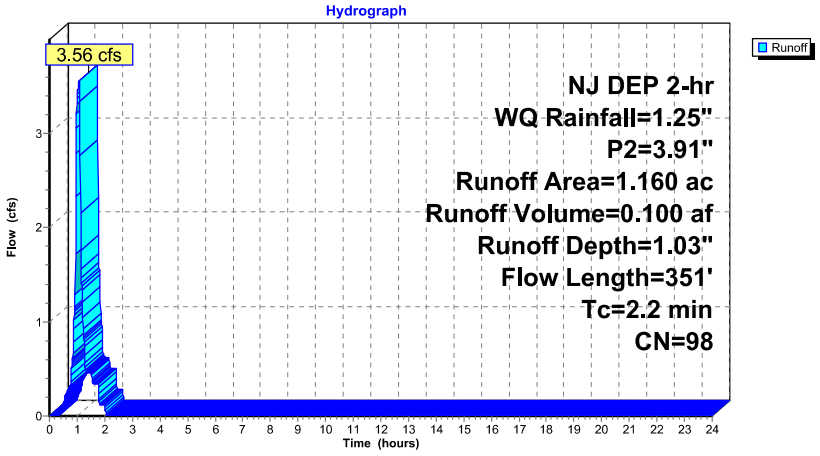
Runoff = 3.56 cfs @ 1.08 hrs, Volume= 0.100 af, Depth= 1.03"
Routed to Link P1B : P1B IMP WQU 209

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr WQ Rainfall=1.25", P2=3.91"

	Area (ac)	CN	Description
*	1.160	98	Impervious vehicular
	1.160		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	100	0.0180	1.46		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
1.1	251	0.0360	3.85		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
2.2	351	Total			

Subcatchment PDA2 IMP: PDA2 IMP



Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	1.25	1.03	0.00
0.05	0.00	0.00	0.00	2.65	1.25	1.03	0.00
0.10	0.01	0.00	0.00	2.70	1.25	1.03	0.00
0.15	0.01	0.00	0.00	2.75	1.25	1.03	0.00
0.20	0.02	0.00	0.00	2.80	1.25	1.03	0.00
0.25	0.03	0.00	0.00	2.85	1.25	1.03	0.00
0.30	0.04	0.00	0.00	2.90	1.25	1.03	0.00
0.35	0.06	0.00	0.02	2.95	1.25	1.03	0.00
0.40	0.07	0.00	0.06	3.00	1.25	1.03	0.00
0.45	0.09	0.01	0.09	3.05	1.25	1.03	0.00
0.50	0.10	0.01	0.12	3.10	1.25	1.03	0.00
0.55	0.12	0.02	0.19	3.15	1.25	1.03	0.00
0.60	0.14	0.03	0.23	3.20	1.25	1.03	0.00
0.65	0.16	0.04	0.26	3.25	1.25	1.03	0.00
0.70	0.18	0.06	0.29	3.30	1.25	1.03	0.00
0.75	0.20	0.07	0.31	3.35	1.25	1.03	0.00
0.80	0.23	0.09	0.54	3.40	1.25	1.03	0.00
0.85	0.28	0.13	0.66	3.45	1.25	1.03	0.00
0.90	0.34	0.18	1.11	3.50	1.25	1.03	0.00
0.95	0.46	0.29	2.32	3.55	1.25	1.03	0.00
1.00	0.63	0.43	3.37	3.60	1.25	1.03	0.00
1.05	0.79	0.58	**3.52**	3.65	1.25	1.03	0.00
1.10	0.91	0.71	**3.34**	3.70	1.25	1.03	0.00
1.15	0.97	0.76	1.46	3.75	1.25	1.03	0.00
1.20	1.02	0.81	1.04	3.80	1.25	1.03	0.00
1.25	1.05	0.84	0.80	3.85	1.25	1.03	0.00
1.30	1.07	0.86	0.51	3.90	1.25	1.03	0.00
1.35	1.09	0.88	0.46	3.95	1.25	1.03	0.00
1.40	1.11	0.90	0.45	4.00	1.25	1.03	0.00
1.45	1.13	0.92	0.45	4.05	1.25	1.03	0.00
1.50	1.15	0.94	0.45	4.10	1.25	1.03	0.00
1.55	1.17	0.95	0.36	4.15	1.25	1.03	0.00
1.60	1.18	0.97	0.34	4.20	1.25	1.03	0.00
1.65	1.20	0.98	0.34	4.25	1.25	1.03	0.00
1.70	1.21	1.00	0.34	4.30	1.25	1.03	0.00
1.75	1.23	1.01	0.34	4.35	1.25	1.03	0.00
1.80	1.23	1.02	0.15	4.40	1.25	1.03	0.00
1.85	1.24	1.02	0.12	4.45	1.25	1.03	0.00
1.90	1.24	1.02	0.11	4.50	1.25	1.03	0.00
1.95	1.25	1.03	0.11	4.55	1.25	1.03	0.00
2.00	**1.25**	**1.03**	0.11	4.60	1.25	1.03	0.00
2.05	1.25	1.03	0.02	4.65	1.25	1.03	0.00
2.10	1.25	1.03	0.00	4.70	1.25	1.03	0.00
2.15	1.25	1.03	0.00	4.75	1.25	1.03	0.00
2.20	1.25	1.03	0.00	4.80	1.25	1.03	0.00
2.25	1.25	1.03	0.00	4.85	1.25	1.03	0.00
2.30	1.25	1.03	0.00	4.90	1.25	1.03	0.00
2.35	1.25	1.03	0.00	4.95	1.25	1.03	0.00
2.40	1.25	1.03	0.00	5.00	1.25	1.03	0.00
2.45	1.25	1.03	0.00	5.05	1.25	1.03	0.00
2.50	1.25	1.03	0.00	5.10	1.25	1.03	0.00
2.55	1.25	1.03	0.00	5.15	1.25	1.03	0.00

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	1.25	1.03	0.00	7.80	1.25	1.03	0.00
5.25	1.25	1.03	0.00	7.85	1.25	1.03	0.00
5.30	1.25	1.03	0.00	7.90	1.25	1.03	0.00
5.35	1.25	1.03	0.00	7.95	1.25	1.03	0.00
5.40	1.25	1.03	0.00	8.00	1.25	1.03	0.00
5.45	1.25	1.03	0.00	8.05	1.25	1.03	0.00
5.50	1.25	1.03	0.00	8.10	1.25	1.03	0.00
5.55	1.25	1.03	0.00	8.15	1.25	1.03	0.00
5.60	1.25	1.03	0.00	8.20	1.25	1.03	0.00
5.65	1.25	1.03	0.00	8.25	1.25	1.03	0.00
5.70	1.25	1.03	0.00	8.30	1.25	1.03	0.00
5.75	1.25	1.03	0.00	8.35	1.25	1.03	0.00
5.80	1.25	1.03	0.00	8.40	1.25	1.03	0.00
5.85	1.25	1.03	0.00	8.45	1.25	1.03	0.00
5.90	1.25	1.03	0.00	8.50	1.25	1.03	0.00
5.95	1.25	1.03	0.00	8.55	1.25	1.03	0.00
6.00	1.25	1.03	0.00	8.60	1.25	1.03	0.00
6.05	1.25	1.03	0.00	8.65	1.25	1.03	0.00
6.10	1.25	1.03	0.00	8.70	1.25	1.03	0.00
6.15	1.25	1.03	0.00	8.75	1.25	1.03	0.00
6.20	1.25	1.03	0.00	8.80	1.25	1.03	0.00
6.25	1.25	1.03	0.00	8.85	1.25	1.03	0.00
6.30	1.25	1.03	0.00	8.90	1.25	1.03	0.00
6.35	1.25	1.03	0.00	8.95	1.25	1.03	0.00
6.40	1.25	1.03	0.00	9.00	1.25	1.03	0.00
6.45	1.25	1.03	0.00	9.05	1.25	1.03	0.00
6.50	1.25	1.03	0.00	9.10	1.25	1.03	0.00
6.55	1.25	1.03	0.00	9.15	1.25	1.03	0.00
6.60	1.25	1.03	0.00	9.20	1.25	1.03	0.00
6.65	1.25	1.03	0.00	9.25	1.25	1.03	0.00
6.70	1.25	1.03	0.00	9.30	1.25	1.03	0.00
6.75	1.25	1.03	0.00	9.35	1.25	1.03	0.00
6.80	1.25	1.03	0.00	9.40	1.25	1.03	0.00
6.85	1.25	1.03	0.00	9.45	1.25	1.03	0.00
6.90	1.25	1.03	0.00	9.50	1.25	1.03	0.00
6.95	1.25	1.03	0.00	9.55	1.25	1.03	0.00
7.00	1.25	1.03	0.00	9.60	1.25	1.03	0.00
7.05	1.25	1.03	0.00	9.65	1.25	1.03	0.00
7.10	1.25	1.03	0.00	9.70	1.25	1.03	0.00
7.15	1.25	1.03	0.00	9.75	1.25	1.03	0.00
7.20	1.25	1.03	0.00	9.80	1.25	1.03	0.00
7.25	1.25	1.03	0.00	9.85	1.25	1.03	0.00
7.30	1.25	1.03	0.00	9.90	1.25	1.03	0.00
7.35	1.25	1.03	0.00	9.95	1.25	1.03	0.00
7.40	1.25	1.03	0.00	10.00	1.25	1.03	0.00
7.45	1.25	1.03	0.00	10.05	1.25	1.03	0.00
7.50	1.25	1.03	0.00	10.10	1.25	1.03	0.00
7.55	1.25	1.03	0.00	10.15	1.25	1.03	0.00
7.60	1.25	1.03	0.00	10.20	1.25	1.03	0.00
7.65	1.25	1.03	0.00	10.25	1.25	1.03	0.00
7.70	1.25	1.03	0.00	10.30	1.25	1.03	0.00
7.75	1.25	1.03	0.00	10.35	1.25	1.03	0.00

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.25	1.03	0.00	13.00	1.25	1.03	0.00
10.45	1.25	1.03	0.00	13.05	1.25	1.03	0.00
10.50	1.25	1.03	0.00	13.10	1.25	1.03	0.00
10.55	1.25	1.03	0.00	13.15	1.25	1.03	0.00
10.60	1.25	1.03	0.00	13.20	1.25	1.03	0.00
10.65	1.25	1.03	0.00	13.25	1.25	1.03	0.00
10.70	1.25	1.03	0.00	13.30	1.25	1.03	0.00
10.75	1.25	1.03	0.00	13.35	1.25	1.03	0.00
10.80	1.25	1.03	0.00	13.40	1.25	1.03	0.00
10.85	1.25	1.03	0.00	13.45	1.25	1.03	0.00
10.90	1.25	1.03	0.00	13.50	1.25	1.03	0.00
10.95	1.25	1.03	0.00	13.55	1.25	1.03	0.00
11.00	1.25	1.03	0.00	13.60	1.25	1.03	0.00
11.05	1.25	1.03	0.00	13.65	1.25	1.03	0.00
11.10	1.25	1.03	0.00	13.70	1.25	1.03	0.00
11.15	1.25	1.03	0.00	13.75	1.25	1.03	0.00
11.20	1.25	1.03	0.00	13.80	1.25	1.03	0.00
11.25	1.25	1.03	0.00	13.85	1.25	1.03	0.00
11.30	1.25	1.03	0.00	13.90	1.25	1.03	0.00
11.35	1.25	1.03	0.00	13.95	1.25	1.03	0.00
11.40	1.25	1.03	0.00	14.00	1.25	1.03	0.00
11.45	1.25	1.03	0.00	14.05	1.25	1.03	0.00
11.50	1.25	1.03	0.00	14.10	1.25	1.03	0.00
11.55	1.25	1.03	0.00	14.15	1.25	1.03	0.00
11.60	1.25	1.03	0.00	14.20	1.25	1.03	0.00
11.65	1.25	1.03	0.00	14.25	1.25	1.03	0.00
11.70	1.25	1.03	0.00	14.30	1.25	1.03	0.00
11.75	1.25	1.03	0.00	14.35	1.25	1.03	0.00
11.80	1.25	1.03	0.00	14.40	1.25	1.03	0.00
11.85	1.25	1.03	0.00	14.45	1.25	1.03	0.00
11.90	1.25	1.03	0.00	14.50	1.25	1.03	0.00
11.95	1.25	1.03	0.00	14.55	1.25	1.03	0.00
12.00	1.25	1.03	0.00	14.60	1.25	1.03	0.00
12.05	1.25	1.03	0.00	14.65	1.25	1.03	0.00
12.10	1.25	1.03	0.00	14.70	1.25	1.03	0.00
12.15	1.25	1.03	0.00	14.75	1.25	1.03	0.00
12.20	1.25	1.03	0.00	14.80	1.25	1.03	0.00
12.25	1.25	1.03	0.00	14.85	1.25	1.03	0.00
12.30	1.25	1.03	0.00	14.90	1.25	1.03	0.00
12.35	1.25	1.03	0.00	14.95	1.25	1.03	0.00
12.40	1.25	1.03	0.00	15.00	1.25	1.03	0.00
12.45	1.25	1.03	0.00	15.05	1.25	1.03	0.00
12.50	1.25	1.03	0.00	15.10	1.25	1.03	0.00
12.55	1.25	1.03	0.00	15.15	1.25	1.03	0.00
12.60	1.25	1.03	0.00	15.20	1.25	1.03	0.00
12.65	1.25	1.03	0.00	15.25	1.25	1.03	0.00
12.70	1.25	1.03	0.00	15.30	1.25	1.03	0.00
12.75	1.25	1.03	0.00	15.35	1.25	1.03	0.00
12.80	1.25	1.03	0.00	15.40	1.25	1.03	0.00
12.85	1.25	1.03	0.00	15.45	1.25	1.03	0.00
12.90	1.25	1.03	0.00	15.50	1.25	1.03	0.00
12.95	1.25	1.03	0.00	15.55	1.25	1.03	0.00

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	1.25	1.03	0.00	18.20	1.25	1.03	0.00
15.65	1.25	1.03	0.00	18.25	1.25	1.03	0.00
15.70	1.25	1.03	0.00	18.30	1.25	1.03	0.00
15.75	1.25	1.03	0.00	18.35	1.25	1.03	0.00
15.80	1.25	1.03	0.00	18.40	1.25	1.03	0.00
15.85	1.25	1.03	0.00	18.45	1.25	1.03	0.00
15.90	1.25	1.03	0.00	18.50	1.25	1.03	0.00
15.95	1.25	1.03	0.00	18.55	1.25	1.03	0.00
16.00	1.25	1.03	0.00	18.60	1.25	1.03	0.00
16.05	1.25	1.03	0.00	18.65	1.25	1.03	0.00
16.10	1.25	1.03	0.00	18.70	1.25	1.03	0.00
16.15	1.25	1.03	0.00	18.75	1.25	1.03	0.00
16.20	1.25	1.03	0.00	18.80	1.25	1.03	0.00
16.25	1.25	1.03	0.00	18.85	1.25	1.03	0.00
16.30	1.25	1.03	0.00	18.90	1.25	1.03	0.00
16.35	1.25	1.03	0.00	18.95	1.25	1.03	0.00
16.40	1.25	1.03	0.00	19.00	1.25	1.03	0.00
16.45	1.25	1.03	0.00	19.05	1.25	1.03	0.00
16.50	1.25	1.03	0.00	19.10	1.25	1.03	0.00
16.55	1.25	1.03	0.00	19.15	1.25	1.03	0.00
16.60	1.25	1.03	0.00	19.20	1.25	1.03	0.00
16.65	1.25	1.03	0.00	19.25	1.25	1.03	0.00
16.70	1.25	1.03	0.00	19.30	1.25	1.03	0.00
16.75	1.25	1.03	0.00	19.35	1.25	1.03	0.00
16.80	1.25	1.03	0.00	19.40	1.25	1.03	0.00
16.85	1.25	1.03	0.00	19.45	1.25	1.03	0.00
16.90	1.25	1.03	0.00	19.50	1.25	1.03	0.00
16.95	1.25	1.03	0.00	19.55	1.25	1.03	0.00
17.00	1.25	1.03	0.00	19.60	1.25	1.03	0.00
17.05	1.25	1.03	0.00	19.65	1.25	1.03	0.00
17.10	1.25	1.03	0.00	19.70	1.25	1.03	0.00
17.15	1.25	1.03	0.00	19.75	1.25	1.03	0.00
17.20	1.25	1.03	0.00	19.80	1.25	1.03	0.00
17.25	1.25	1.03	0.00	19.85	1.25	1.03	0.00
17.30	1.25	1.03	0.00	19.90	1.25	1.03	0.00
17.35	1.25	1.03	0.00	19.95	1.25	1.03	0.00
17.40	1.25	1.03	0.00	20.00	1.25	1.03	0.00
17.45	1.25	1.03	0.00	20.05	1.25	1.03	0.00
17.50	1.25	1.03	0.00	20.10	1.25	1.03	0.00
17.55	1.25	1.03	0.00	20.15	1.25	1.03	0.00
17.60	1.25	1.03	0.00	20.20	1.25	1.03	0.00
17.65	1.25	1.03	0.00	20.25	1.25	1.03	0.00
17.70	1.25	1.03	0.00	20.30	1.25	1.03	0.00
17.75	1.25	1.03	0.00	20.35	1.25	1.03	0.00
17.80	1.25	1.03	0.00	20.40	1.25	1.03	0.00
17.85	1.25	1.03	0.00	20.45	1.25	1.03	0.00
17.90	1.25	1.03	0.00	20.50	1.25	1.03	0.00
17.95	1.25	1.03	0.00	20.55	1.25	1.03	0.00
18.00	1.25	1.03	0.00	20.60	1.25	1.03	0.00
18.05	1.25	1.03	0.00	20.65	1.25	1.03	0.00
18.10	1.25	1.03	0.00	20.70	1.25	1.03	0.00
18.15	1.25	1.03	0.00	20.75	1.25	1.03	0.00

Hydrograph for Subcatchment PDA2 IMP: PDA2 IMP (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	1.25	1.03	0.00	23.40	1.25	1.03	0.00
20.85	1.25	1.03	0.00	23.45	1.25	1.03	0.00
20.90	1.25	1.03	0.00	23.50	1.25	1.03	0.00
20.95	1.25	1.03	0.00	23.55	1.25	1.03	0.00
21.00	1.25	1.03	0.00	23.60	1.25	1.03	0.00
21.05	1.25	1.03	0.00	23.65	1.25	1.03	0.00
21.10	1.25	1.03	0.00	23.70	1.25	1.03	0.00
21.15	1.25	1.03	0.00	23.75	1.25	1.03	0.00
21.20	1.25	1.03	0.00	23.80	1.25	1.03	0.00
21.25	1.25	1.03	0.00	23.85	1.25	1.03	0.00
21.30	1.25	1.03	0.00	23.90	1.25	1.03	0.00
21.35	1.25	1.03	0.00	23.95	1.25	1.03	0.00
21.40	1.25	1.03	0.00	24.00	1.25	1.03	0.00
21.45	1.25	1.03	0.00				
21.50	1.25	1.03	0.00				
21.55	1.25	1.03	0.00				
21.60	1.25	1.03	0.00				
21.65	1.25	1.03	0.00				
21.70	1.25	1.03	0.00				
21.75	1.25	1.03	0.00				
21.80	1.25	1.03	0.00				
21.85	1.25	1.03	0.00				
21.90	1.25	1.03	0.00				
21.95	1.25	1.03	0.00				
22.00	1.25	1.03	0.00				
22.05	1.25	1.03	0.00				
22.10	1.25	1.03	0.00				
22.15	1.25	1.03	0.00				
22.20	1.25	1.03	0.00				
22.25	1.25	1.03	0.00				
22.30	1.25	1.03	0.00				
22.35	1.25	1.03	0.00				
22.40	1.25	1.03	0.00				
22.45	1.25	1.03	0.00				
22.50	1.25	1.03	0.00				
22.55	1.25	1.03	0.00				
22.60	1.25	1.03	0.00				
22.65	1.25	1.03	0.00				
22.70	1.25	1.03	0.00				
22.75	1.25	1.03	0.00				
22.80	1.25	1.03	0.00				
22.85	1.25	1.03	0.00				
22.90	1.25	1.03	0.00				
22.95	1.25	1.03	0.00				
23.00	1.25	1.03	0.00				
23.05	1.25	1.03	0.00				
23.10	1.25	1.03	0.00				
23.15	1.25	1.03	0.00				
23.20	1.25	1.03	0.00				
23.25	1.25	1.03	0.00				
23.30	1.25	1.03	0.00				
23.35	1.25	1.03	0.00				

Summary for Subcatchment PDA3 IMP: PDA3 IMP WQU 103

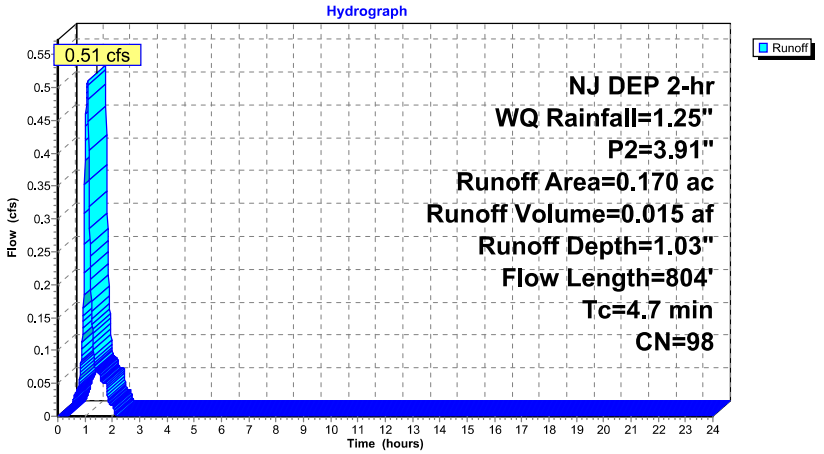
Runoff = 0.51 cfs @ 1.10 hrs, Volume= 0.015 af, Depth= 1.03"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr WQ Rainfall=1.25", P2=3.91"

	Area (ac)	CN	Description
*	0.170	98	Impervious vehicular - Additional
	0.170		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.7	100	0.0071	1.00		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	66	0.0071	1.71		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.7	172	0.0039	3.90	12.24	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
0.1	27	0.0120	6.84	21.48	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
1.6	439	0.0015	4.45	87.42	**Pipe Channel, RCP_Round 60"** 60.0" Round Area= 19.6 sf Perim= 15.7' r= 1.25' n= 0.015
4.7	804	Total			

Subcatchment PDA3 IMP: PDA3 IMP WQU 103



Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP WQU 103

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	1.25	1.03	0.00
0.05	0.00	0.00	0.00	2.65	1.25	1.03	0.00
0.10	0.01	0.00	0.00	2.70	1.25	1.03	0.00
0.15	0.01	0.00	0.00	2.75	1.25	1.03	0.00
0.20	0.02	0.00	0.00	2.80	1.25	1.03	0.00
0.25	0.03	0.00	0.00	2.85	1.25	1.03	0.00
0.30	0.04	0.00	0.00	2.90	1.25	1.03	0.00
0.35	0.06	0.00	0.00	2.95	1.25	1.03	0.00
0.40	0.07	0.00	0.00	3.00	1.25	1.03	0.00
0.45	0.09	0.01	0.01	3.05	1.25	1.03	0.00
0.50	0.10	0.01	0.01	3.10	1.25	1.03	0.00
0.55	0.12	0.02	0.02	3.15	1.25	1.03	0.00
0.60	0.14	0.03	0.03	3.20	1.25	1.03	0.00
0.65	0.16	0.04	0.03	3.25	1.25	1.03	0.00
0.70	0.18	0.06	0.04	3.30	1.25	1.03	0.00
0.75	0.20	0.07	0.04	3.35	1.25	1.03	0.00
0.80	0.23	0.09	0.06	3.40	1.25	1.03	0.00
0.85	0.28	0.13	0.08	3.45	1.25	1.03	0.00
0.90	0.34	0.18	0.12	3.50	1.25	1.03	0.00
0.95	0.46	0.29	0.19	3.55	1.25	1.03	0.00
1.00	0.63	0.43	0.39	3.60	1.25	1.03	0.00
1.05	0.79	0.58	0.48	3.65	1.25	1.03	0.00
1.10	0.91	0.71	**0.51**	3.70	1.25	1.03	0.00
1.15	0.97	0.76	0.36	3.75	1.25	1.03	0.00
1.20	1.02	0.81	0.23	3.80	1.25	1.03	0.00
1.25	1.05	0.84	0.15	3.85	1.25	1.03	0.00
1.30	1.07	0.86	0.11	3.90	1.25	1.03	0.00
1.35	1.09	0.88	0.08	3.95	1.25	1.03	0.00
1.40	1.11	0.90	0.07	4.00	1.25	1.03	0.00
1.45	1.13	0.92	0.07	4.05	1.25	1.03	0.00
1.50	1.15	0.94	0.07	4.10	1.25	1.03	0.00
1.55	1.17	0.95	0.06	4.15	1.25	1.03	0.00
1.60	1.18	0.97	0.05	4.20	1.25	1.03	0.00
1.65	1.20	0.98	0.05	4.25	1.25	1.03	0.00
1.70	1.21	1.00	0.05	4.30	1.25	1.03	0.00
1.75	1.23	1.01	0.05	4.35	1.25	1.03	0.00
1.80	1.23	1.02	0.04	4.40	1.25	1.03	0.00
1.85	1.24	1.02	0.02	4.45	1.25	1.03	0.00
1.90	1.24	1.02	0.02	4.50	1.25	1.03	0.00
1.95	1.25	1.03	0.02	4.55	1.25	1.03	0.00
2.00	**1.25**	**1.03**	0.02	4.60	1.25	1.03	0.00
2.05	1.25	1.03	0.01	4.65	1.25	1.03	0.00
2.10	1.25	1.03	0.00	4.70	1.25	1.03	0.00
2.15	1.25	1.03	0.00	4.75	1.25	1.03	0.00
2.20	1.25	1.03	0.00	4.80	1.25	1.03	0.00
2.25	1.25	1.03	0.00	4.85	1.25	1.03	0.00
2.30	1.25	1.03	0.00	4.90	1.25	1.03	0.00
2.35	1.25	1.03	0.00	4.95	1.25	1.03	0.00
2.40	1.25	1.03	0.00	5.00	1.25	1.03	0.00
2.45	1.25	1.03	0.00	5.05	1.25	1.03	0.00
2.50	1.25	1.03	0.00	5.10	1.25	1.03	0.00
2.55	1.25	1.03	0.00	5.15	1.25	1.03	0.00

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP WQU 103 (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	1.25	1.03	0.00	7.80	1.25	1.03	0.00
5.25	1.25	1.03	0.00	7.85	1.25	1.03	0.00
5.30	1.25	1.03	0.00	7.90	1.25	1.03	0.00
5.35	1.25	1.03	0.00	7.95	1.25	1.03	0.00
5.40	1.25	1.03	0.00	8.00	1.25	1.03	0.00
5.45	1.25	1.03	0.00	8.05	1.25	1.03	0.00
5.50	1.25	1.03	0.00	8.10	1.25	1.03	0.00
5.55	1.25	1.03	0.00	8.15	1.25	1.03	0.00
5.60	1.25	1.03	0.00	8.20	1.25	1.03	0.00
5.65	1.25	1.03	0.00	8.25	1.25	1.03	0.00
5.70	1.25	1.03	0.00	8.30	1.25	1.03	0.00
5.75	1.25	1.03	0.00	8.35	1.25	1.03	0.00
5.80	1.25	1.03	0.00	8.40	1.25	1.03	0.00
5.85	1.25	1.03	0.00	8.45	1.25	1.03	0.00
5.90	1.25	1.03	0.00	8.50	1.25	1.03	0.00
5.95	1.25	1.03	0.00	8.55	1.25	1.03	0.00
6.00	1.25	1.03	0.00	8.60	1.25	1.03	0.00
6.05	1.25	1.03	0.00	8.65	1.25	1.03	0.00
6.10	1.25	1.03	0.00	8.70	1.25	1.03	0.00
6.15	1.25	1.03	0.00	8.75	1.25	1.03	0.00
6.20	1.25	1.03	0.00	8.80	1.25	1.03	0.00
6.25	1.25	1.03	0.00	8.85	1.25	1.03	0.00
6.30	1.25	1.03	0.00	8.90	1.25	1.03	0.00
6.35	1.25	1.03	0.00	8.95	1.25	1.03	0.00
6.40	1.25	1.03	0.00	9.00	1.25	1.03	0.00
6.45	1.25	1.03	0.00	9.05	1.25	1.03	0.00
6.50	1.25	1.03	0.00	9.10	1.25	1.03	0.00
6.55	1.25	1.03	0.00	9.15	1.25	1.03	0.00
6.60	1.25	1.03	0.00	9.20	1.25	1.03	0.00
6.65	1.25	1.03	0.00	9.25	1.25	1.03	0.00
6.70	1.25	1.03	0.00	9.30	1.25	1.03	0.00
6.75	1.25	1.03	0.00	9.35	1.25	1.03	0.00
6.80	1.25	1.03	0.00	9.40	1.25	1.03	0.00
6.85	1.25	1.03	0.00	9.45	1.25	1.03	0.00
6.90	1.25	1.03	0.00	9.50	1.25	1.03	0.00
6.95	1.25	1.03	0.00	9.55	1.25	1.03	0.00
7.00	1.25	1.03	0.00	9.60	1.25	1.03	0.00
7.05	1.25	1.03	0.00	9.65	1.25	1.03	0.00
7.10	1.25	1.03	0.00	9.70	1.25	1.03	0.00
7.15	1.25	1.03	0.00	9.75	1.25	1.03	0.00
7.20	1.25	1.03	0.00	9.80	1.25	1.03	0.00
7.25	1.25	1.03	0.00	9.85	1.25	1.03	0.00
7.30	1.25	1.03	0.00	9.90	1.25	1.03	0.00
7.35	1.25	1.03	0.00	9.95	1.25	1.03	0.00
7.40	1.25	1.03	0.00	10.00	1.25	1.03	0.00
7.45	1.25	1.03	0.00	10.05	1.25	1.03	0.00
7.50	1.25	1.03	0.00	10.10	1.25	1.03	0.00
7.55	1.25	1.03	0.00	10.15	1.25	1.03	0.00
7.60	1.25	1.03	0.00	10.20	1.25	1.03	0.00
7.65	1.25	1.03	0.00	10.25	1.25	1.03	0.00
7.70	1.25	1.03	0.00	10.30	1.25	1.03	0.00
7.75	1.25	1.03	0.00	10.35	1.25	1.03	0.00

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP WQU 103 (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.25	1.03	0.00	13.00	1.25	1.03	0.00
10.45	1.25	1.03	0.00	13.05	1.25	1.03	0.00
10.50	1.25	1.03	0.00	13.10	1.25	1.03	0.00
10.55	1.25	1.03	0.00	13.15	1.25	1.03	0.00
10.60	1.25	1.03	0.00	13.20	1.25	1.03	0.00
10.65	1.25	1.03	0.00	13.25	1.25	1.03	0.00
10.70	1.25	1.03	0.00	13.30	1.25	1.03	0.00
10.75	1.25	1.03	0.00	13.35	1.25	1.03	0.00
10.80	1.25	1.03	0.00	13.40	1.25	1.03	0.00
10.85	1.25	1.03	0.00	13.45	1.25	1.03	0.00
10.90	1.25	1.03	0.00	13.50	1.25	1.03	0.00
10.95	1.25	1.03	0.00	13.55	1.25	1.03	0.00
11.00	1.25	1.03	0.00	13.60	1.25	1.03	0.00
11.05	1.25	1.03	0.00	13.65	1.25	1.03	0.00
11.10	1.25	1.03	0.00	13.70	1.25	1.03	0.00
11.15	1.25	1.03	0.00	13.75	1.25	1.03	0.00
11.20	1.25	1.03	0.00	13.80	1.25	1.03	0.00
11.25	1.25	1.03	0.00	13.85	1.25	1.03	0.00
11.30	1.25	1.03	0.00	13.90	1.25	1.03	0.00
11.35	1.25	1.03	0.00	13.95	1.25	1.03	0.00
11.40	1.25	1.03	0.00	14.00	1.25	1.03	0.00
11.45	1.25	1.03	0.00	14.05	1.25	1.03	0.00
11.50	1.25	1.03	0.00	14.10	1.25	1.03	0.00
11.55	1.25	1.03	0.00	14.15	1.25	1.03	0.00
11.60	1.25	1.03	0.00	14.20	1.25	1.03	0.00
11.65	1.25	1.03	0.00	14.25	1.25	1.03	0.00
11.70	1.25	1.03	0.00	14.30	1.25	1.03	0.00
11.75	1.25	1.03	0.00	14.35	1.25	1.03	0.00
11.80	1.25	1.03	0.00	14.40	1.25	1.03	0.00
11.85	1.25	1.03	0.00	14.45	1.25	1.03	0.00
11.90	1.25	1.03	0.00	14.50	1.25	1.03	0.00
11.95	1.25	1.03	0.00	14.55	1.25	1.03	0.00
12.00	1.25	1.03	0.00	14.60	1.25	1.03	0.00
12.05	1.25	1.03	0.00	14.65	1.25	1.03	0.00
12.10	1.25	1.03	0.00	14.70	1.25	1.03	0.00
12.15	1.25	1.03	0.00	14.75	1.25	1.03	0.00
12.20	1.25	1.03	0.00	14.80	1.25	1.03	0.00
12.25	1.25	1.03	0.00	14.85	1.25	1.03	0.00
12.30	1.25	1.03	0.00	14.90	1.25	1.03	0.00
12.35	1.25	1.03	0.00	14.95	1.25	1.03	0.00
12.40	1.25	1.03	0.00	15.00	1.25	1.03	0.00
12.45	1.25	1.03	0.00	15.05	1.25	1.03	0.00
12.50	1.25	1.03	0.00	15.10	1.25	1.03	0.00
12.55	1.25	1.03	0.00	15.15	1.25	1.03	0.00
12.60	1.25	1.03	0.00	15.20	1.25	1.03	0.00
12.65	1.25	1.03	0.00	15.25	1.25	1.03	0.00
12.70	1.25	1.03	0.00	15.30	1.25	1.03	0.00
12.75	1.25	1.03	0.00	15.35	1.25	1.03	0.00
12.80	1.25	1.03	0.00	15.40	1.25	1.03	0.00
12.85	1.25	1.03	0.00	15.45	1.25	1.03	0.00
12.90	1.25	1.03	0.00	15.50	1.25	1.03	0.00
12.95	1.25	1.03	0.00	15.55	1.25	1.03	0.00

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP WQU 103 (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	1.25	1.03	0.00	18.20	1.25	1.03	0.00
15.65	1.25	1.03	0.00	18.25	1.25	1.03	0.00
15.70	1.25	1.03	0.00	18.30	1.25	1.03	0.00
15.75	1.25	1.03	0.00	18.35	1.25	1.03	0.00
15.80	1.25	1.03	0.00	18.40	1.25	1.03	0.00
15.85	1.25	1.03	0.00	18.45	1.25	1.03	0.00
15.90	1.25	1.03	0.00	18.50	1.25	1.03	0.00
15.95	1.25	1.03	0.00	18.55	1.25	1.03	0.00
16.00	1.25	1.03	0.00	18.60	1.25	1.03	0.00
16.05	1.25	1.03	0.00	18.65	1.25	1.03	0.00
16.10	1.25	1.03	0.00	18.70	1.25	1.03	0.00
16.15	1.25	1.03	0.00	18.75	1.25	1.03	0.00
16.20	1.25	1.03	0.00	18.80	1.25	1.03	0.00
16.25	1.25	1.03	0.00	18.85	1.25	1.03	0.00
16.30	1.25	1.03	0.00	18.90	1.25	1.03	0.00
16.35	1.25	1.03	0.00	18.95	1.25	1.03	0.00
16.40	1.25	1.03	0.00	19.00	1.25	1.03	0.00
16.45	1.25	1.03	0.00	19.05	1.25	1.03	0.00
16.50	1.25	1.03	0.00	19.10	1.25	1.03	0.00
16.55	1.25	1.03	0.00	19.15	1.25	1.03	0.00
16.60	1.25	1.03	0.00	19.20	1.25	1.03	0.00
16.65	1.25	1.03	0.00	19.25	1.25	1.03	0.00
16.70	1.25	1.03	0.00	19.30	1.25	1.03	0.00
16.75	1.25	1.03	0.00	19.35	1.25	1.03	0.00
16.80	1.25	1.03	0.00	19.40	1.25	1.03	0.00
16.85	1.25	1.03	0.00	19.45	1.25	1.03	0.00
16.90	1.25	1.03	0.00	19.50	1.25	1.03	0.00
16.95	1.25	1.03	0.00	19.55	1.25	1.03	0.00
17.00	1.25	1.03	0.00	19.60	1.25	1.03	0.00
17.05	1.25	1.03	0.00	19.65	1.25	1.03	0.00
17.10	1.25	1.03	0.00	19.70	1.25	1.03	0.00
17.15	1.25	1.03	0.00	19.75	1.25	1.03	0.00
17.20	1.25	1.03	0.00	19.80	1.25	1.03	0.00
17.25	1.25	1.03	0.00	19.85	1.25	1.03	0.00
17.30	1.25	1.03	0.00	19.90	1.25	1.03	0.00
17.35	1.25	1.03	0.00	19.95	1.25	1.03	0.00
17.40	1.25	1.03	0.00	20.00	1.25	1.03	0.00
17.45	1.25	1.03	0.00	20.05	1.25	1.03	0.00
17.50	1.25	1.03	0.00	20.10	1.25	1.03	0.00
17.55	1.25	1.03	0.00	20.15	1.25	1.03	0.00
17.60	1.25	1.03	0.00	20.20	1.25	1.03	0.00
17.65	1.25	1.03	0.00	20.25	1.25	1.03	0.00
17.70	1.25	1.03	0.00	20.30	1.25	1.03	0.00
17.75	1.25	1.03	0.00	20.35	1.25	1.03	0.00
17.80	1.25	1.03	0.00	20.40	1.25	1.03	0.00
17.85	1.25	1.03	0.00	20.45	1.25	1.03	0.00
17.90	1.25	1.03	0.00	20.50	1.25	1.03	0.00
17.95	1.25	1.03	0.00	20.55	1.25	1.03	0.00
18.00	1.25	1.03	0.00	20.60	1.25	1.03	0.00
18.05	1.25	1.03	0.00	20.65	1.25	1.03	0.00
18.10	1.25	1.03	0.00	20.70	1.25	1.03	0.00
18.15	1.25	1.03	0.00	20.75	1.25	1.03	0.00

Hydrograph for Subcatchment PDA3 IMP: PDA3 IMP WQU 103 (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	1.25	1.03	0.00	23.40	1.25	1.03	0.00
20.85	1.25	1.03	0.00	23.45	1.25	1.03	0.00
20.90	1.25	1.03	0.00	23.50	1.25	1.03	0.00
20.95	1.25	1.03	0.00	23.55	1.25	1.03	0.00
21.00	1.25	1.03	0.00	23.60	1.25	1.03	0.00
21.05	1.25	1.03	0.00	23.65	1.25	1.03	0.00
21.10	1.25	1.03	0.00	23.70	1.25	1.03	0.00
21.15	1.25	1.03	0.00	23.75	1.25	1.03	0.00
21.20	1.25	1.03	0.00	23.80	1.25	1.03	0.00
21.25	1.25	1.03	0.00	23.85	1.25	1.03	0.00
21.30	1.25	1.03	0.00	23.90	1.25	1.03	0.00
21.35	1.25	1.03	0.00	23.95	1.25	1.03	0.00
21.40	1.25	1.03	0.00	24.00	1.25	1.03	0.00
21.45	1.25	1.03	0.00				
21.50	1.25	1.03	0.00				
21.55	1.25	1.03	0.00				
21.60	1.25	1.03	0.00				
21.65	1.25	1.03	0.00				
21.70	1.25	1.03	0.00				
21.75	1.25	1.03	0.00				
21.80	1.25	1.03	0.00				
21.85	1.25	1.03	0.00				
21.90	1.25	1.03	0.00				
21.95	1.25	1.03	0.00				
22.00	1.25	1.03	0.00				
22.05	1.25	1.03	0.00				
22.10	1.25	1.03	0.00				
22.15	1.25	1.03	0.00				
22.20	1.25	1.03	0.00				
22.25	1.25	1.03	0.00				
22.30	1.25	1.03	0.00				
22.35	1.25	1.03	0.00				
22.40	1.25	1.03	0.00				
22.45	1.25	1.03	0.00				
22.50	1.25	1.03	0.00				
22.55	1.25	1.03	0.00				
22.60	1.25	1.03	0.00				
22.65	1.25	1.03	0.00				
22.70	1.25	1.03	0.00				
22.75	1.25	1.03	0.00				
22.80	1.25	1.03	0.00				
22.85	1.25	1.03	0.00				
22.90	1.25	1.03	0.00				
22.95	1.25	1.03	0.00				
23.00	1.25	1.03	0.00				
23.05	1.25	1.03	0.00				
23.10	1.25	1.03	0.00				
23.15	1.25	1.03	0.00				
23.20	1.25	1.03	0.00				
23.25	1.25	1.03	0.00				
23.30	1.25	1.03	0.00				
23.35	1.25	1.03	0.00				

Summary for Subcatchment PDA4 IMP: PDA4 IMP WQU 201-1

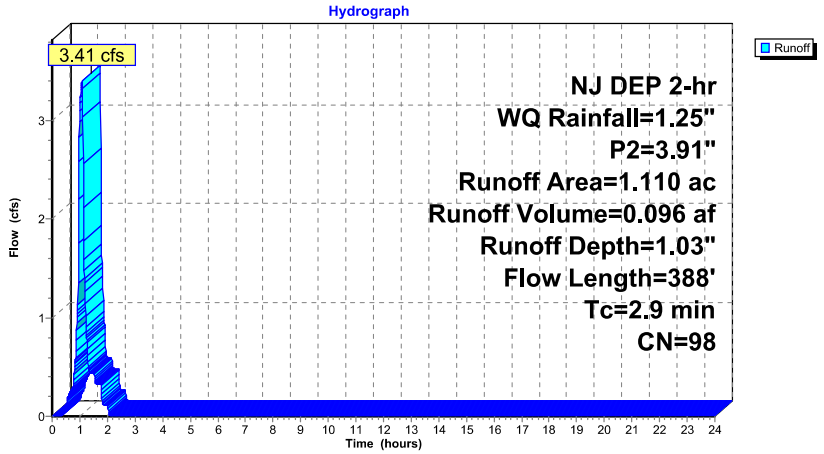
Runoff = 3.41 cfs @ 1.09 hrs, Volume= 0.096 af, Depth= 1.03"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr WQ Rainfall=1.25", P2=3.91"

	Area (ac)	CN	Description
*	1.110	98	Impervious Vehicular (proposed)
	1.110		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0160	1.39		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	88	0.0150	2.49		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.5	100	0.0039	3.22	5.69	**Pipe Channel, RCP_Round 18"** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
0.6	100	0.0020	2.79	8.77	**Pipe Channel, RCP_Round 24"** 24.0" Round Area= 3.1 sf Perim= 6.3' r= 0.50' n= 0.015
2.9	388	Total			

Subcatchment PDA4 IMP: PDA4 IMP WQU 201-1



Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP WQU 201-1

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	1.25	1.03	0.00
0.05	0.00	0.00	0.00	2.65	1.25	1.03	0.00
0.10	0.01	0.00	0.00	2.70	1.25	1.03	0.00
0.15	0.01	0.00	0.00	2.75	1.25	1.03	0.00
0.20	0.02	0.00	0.00	2.80	1.25	1.03	0.00
0.25	0.03	0.00	0.00	2.85	1.25	1.03	0.00
0.30	0.04	0.00	0.00	2.90	1.25	1.03	0.00
0.35	0.06	0.00	0.01	2.95	1.25	1.03	0.00
0.40	0.07	0.00	0.05	3.00	1.25	1.03	0.00
0.45	0.09	0.01	0.08	3.05	1.25	1.03	0.00
0.50	0.10	0.01	0.11	3.10	1.25	1.03	0.00
0.55	0.12	0.02	0.17	3.15	1.25	1.03	0.00
0.60	0.14	0.03	0.21	3.20	1.25	1.03	0.00
0.65	0.16	0.04	0.24	3.25	1.25	1.03	0.00
0.70	0.18	0.06	0.27	3.30	1.25	1.03	0.00
0.75	0.20	0.07	0.30	3.35	1.25	1.03	0.00
0.80	0.23	0.09	0.47	3.40	1.25	1.03	0.00
0.85	0.28	0.13	0.60	3.45	1.25	1.03	0.00
0.90	0.34	0.18	1.01	3.50	1.25	1.03	0.00
0.95	0.46	0.29	1.76	3.55	1.25	1.03	0.00
1.00	0.63	0.43	3.10	3.60	1.25	1.03	0.00
1.05	0.79	0.58	**3.34**	3.65	1.25	1.03	0.00
1.10	0.91	0.71	**3.32**	3.70	1.25	1.03	0.00
1.15	0.97	0.76	1.59	3.75	1.25	1.03	0.00
1.20	1.02	0.81	1.14	3.80	1.25	1.03	0.00
1.25	1.05	0.84	0.79	3.85	1.25	1.03	0.00
1.30	1.07	0.86	0.55	3.90	1.25	1.03	0.00
1.35	1.09	0.88	0.45	3.95	1.25	1.03	0.00
1.40	1.11	0.90	0.43	4.00	1.25	1.03	0.00
1.45	1.13	0.92	0.43	4.05	1.25	1.03	0.00
1.50	1.15	0.94	0.43	4.10	1.25	1.03	0.00
1.55	1.17	0.95	0.36	4.15	1.25	1.03	0.00
1.60	1.18	0.97	0.33	4.20	1.25	1.03	0.00
1.65	1.20	0.98	0.33	4.25	1.25	1.03	0.00
1.70	1.21	1.00	0.33	4.30	1.25	1.03	0.00
1.75	1.23	1.01	0.33	4.35	1.25	1.03	0.00
1.80	1.23	1.02	0.18	4.40	1.25	1.03	0.00
1.85	1.24	1.02	0.12	4.45	1.25	1.03	0.00
1.90	1.24	1.02	0.11	4.50	1.25	1.03	0.00
1.95	1.25	1.03	0.11	4.55	1.25	1.03	0.00
2.00	**1.25**	**1.03**	0.11	4.60	1.25	1.03	0.00
2.05	1.25	1.03	0.04	4.65	1.25	1.03	0.00
2.10	1.25	1.03	0.00	4.70	1.25	1.03	0.00
2.15	1.25	1.03	0.00	4.75	1.25	1.03	0.00
2.20	1.25	1.03	0.00	4.80	1.25	1.03	0.00
2.25	1.25	1.03	0.00	4.85	1.25	1.03	0.00
2.30	1.25	1.03	0.00	4.90	1.25	1.03	0.00
2.35	1.25	1.03	0.00	4.95	1.25	1.03	0.00
2.40	1.25	1.03	0.00	5.00	1.25	1.03	0.00
2.45	1.25	1.03	0.00	5.05	1.25	1.03	0.00
2.50	1.25	1.03	0.00	5.10	1.25	1.03	0.00
2.55	1.25	1.03	0.00	5.15	1.25	1.03	0.00

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP WQU 201-1 (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	1.25	1.03	0.00	7.80	1.25	1.03	0.00
5.25	1.25	1.03	0.00	7.85	1.25	1.03	0.00
5.30	1.25	1.03	0.00	7.90	1.25	1.03	0.00
5.35	1.25	1.03	0.00	7.95	1.25	1.03	0.00
5.40	1.25	1.03	0.00	8.00	1.25	1.03	0.00
5.45	1.25	1.03	0.00	8.05	1.25	1.03	0.00
5.50	1.25	1.03	0.00	8.10	1.25	1.03	0.00
5.55	1.25	1.03	0.00	8.15	1.25	1.03	0.00
5.60	1.25	1.03	0.00	8.20	1.25	1.03	0.00
5.65	1.25	1.03	0.00	8.25	1.25	1.03	0.00
5.70	1.25	1.03	0.00	8.30	1.25	1.03	0.00
5.75	1.25	1.03	0.00	8.35	1.25	1.03	0.00
5.80	1.25	1.03	0.00	8.40	1.25	1.03	0.00
5.85	1.25	1.03	0.00	8.45	1.25	1.03	0.00
5.90	1.25	1.03	0.00	8.50	1.25	1.03	0.00
5.95	1.25	1.03	0.00	8.55	1.25	1.03	0.00
6.00	1.25	1.03	0.00	8.60	1.25	1.03	0.00
6.05	1.25	1.03	0.00	8.65	1.25	1.03	0.00
6.10	1.25	1.03	0.00	8.70	1.25	1.03	0.00
6.15	1.25	1.03	0.00	8.75	1.25	1.03	0.00
6.20	1.25	1.03	0.00	8.80	1.25	1.03	0.00
6.25	1.25	1.03	0.00	8.85	1.25	1.03	0.00
6.30	1.25	1.03	0.00	8.90	1.25	1.03	0.00
6.35	1.25	1.03	0.00	8.95	1.25	1.03	0.00
6.40	1.25	1.03	0.00	9.00	1.25	1.03	0.00
6.45	1.25	1.03	0.00	9.05	1.25	1.03	0.00
6.50	1.25	1.03	0.00	9.10	1.25	1.03	0.00
6.55	1.25	1.03	0.00	9.15	1.25	1.03	0.00
6.60	1.25	1.03	0.00	9.20	1.25	1.03	0.00
6.65	1.25	1.03	0.00	9.25	1.25	1.03	0.00
6.70	1.25	1.03	0.00	9.30	1.25	1.03	0.00
6.75	1.25	1.03	0.00	9.35	1.25	1.03	0.00
6.80	1.25	1.03	0.00	9.40	1.25	1.03	0.00
6.85	1.25	1.03	0.00	9.45	1.25	1.03	0.00
6.90	1.25	1.03	0.00	9.50	1.25	1.03	0.00
6.95	1.25	1.03	0.00	9.55	1.25	1.03	0.00
7.00	1.25	1.03	0.00	9.60	1.25	1.03	0.00
7.05	1.25	1.03	0.00	9.65	1.25	1.03	0.00
7.10	1.25	1.03	0.00	9.70	1.25	1.03	0.00
7.15	1.25	1.03	0.00	9.75	1.25	1.03	0.00
7.20	1.25	1.03	0.00	9.80	1.25	1.03	0.00
7.25	1.25	1.03	0.00	9.85	1.25	1.03	0.00
7.30	1.25	1.03	0.00	9.90	1.25	1.03	0.00
7.35	1.25	1.03	0.00	9.95	1.25	1.03	0.00
7.40	1.25	1.03	0.00	10.00	1.25	1.03	0.00
7.45	1.25	1.03	0.00	10.05	1.25	1.03	0.00
7.50	1.25	1.03	0.00	10.10	1.25	1.03	0.00
7.55	1.25	1.03	0.00	10.15	1.25	1.03	0.00
7.60	1.25	1.03	0.00	10.20	1.25	1.03	0.00
7.65	1.25	1.03	0.00	10.25	1.25	1.03	0.00
7.70	1.25	1.03	0.00	10.30	1.25	1.03	0.00
7.75	1.25	1.03	0.00	10.35	1.25	1.03	0.00

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP WQU 201-1 (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.25	1.03	0.00	13.00	1.25	1.03	0.00
10.45	1.25	1.03	0.00	13.05	1.25	1.03	0.00
10.50	1.25	1.03	0.00	13.10	1.25	1.03	0.00
10.55	1.25	1.03	0.00	13.15	1.25	1.03	0.00
10.60	1.25	1.03	0.00	13.20	1.25	1.03	0.00
10.65	1.25	1.03	0.00	13.25	1.25	1.03	0.00
10.70	1.25	1.03	0.00	13.30	1.25	1.03	0.00
10.75	1.25	1.03	0.00	13.35	1.25	1.03	0.00
10.80	1.25	1.03	0.00	13.40	1.25	1.03	0.00
10.85	1.25	1.03	0.00	13.45	1.25	1.03	0.00
10.90	1.25	1.03	0.00	13.50	1.25	1.03	0.00
10.95	1.25	1.03	0.00	13.55	1.25	1.03	0.00
11.00	1.25	1.03	0.00	13.60	1.25	1.03	0.00
11.05	1.25	1.03	0.00	13.65	1.25	1.03	0.00
11.10	1.25	1.03	0.00	13.70	1.25	1.03	0.00
11.15	1.25	1.03	0.00	13.75	1.25	1.03	0.00
11.20	1.25	1.03	0.00	13.80	1.25	1.03	0.00
11.25	1.25	1.03	0.00	13.85	1.25	1.03	0.00
11.30	1.25	1.03	0.00	13.90	1.25	1.03	0.00
11.35	1.25	1.03	0.00	13.95	1.25	1.03	0.00
11.40	1.25	1.03	0.00	14.00	1.25	1.03	0.00
11.45	1.25	1.03	0.00	14.05	1.25	1.03	0.00
11.50	1.25	1.03	0.00	14.10	1.25	1.03	0.00
11.55	1.25	1.03	0.00	14.15	1.25	1.03	0.00
11.60	1.25	1.03	0.00	14.20	1.25	1.03	0.00
11.65	1.25	1.03	0.00	14.25	1.25	1.03	0.00
11.70	1.25	1.03	0.00	14.30	1.25	1.03	0.00
11.75	1.25	1.03	0.00	14.35	1.25	1.03	0.00
11.80	1.25	1.03	0.00	14.40	1.25	1.03	0.00
11.85	1.25	1.03	0.00	14.45	1.25	1.03	0.00
11.90	1.25	1.03	0.00	14.50	1.25	1.03	0.00
11.95	1.25	1.03	0.00	14.55	1.25	1.03	0.00
12.00	1.25	1.03	0.00	14.60	1.25	1.03	0.00
12.05	1.25	1.03	0.00	14.65	1.25	1.03	0.00
12.10	1.25	1.03	0.00	14.70	1.25	1.03	0.00
12.15	1.25	1.03	0.00	14.75	1.25	1.03	0.00
12.20	1.25	1.03	0.00	14.80	1.25	1.03	0.00
12.25	1.25	1.03	0.00	14.85	1.25	1.03	0.00
12.30	1.25	1.03	0.00	14.90	1.25	1.03	0.00
12.35	1.25	1.03	0.00	14.95	1.25	1.03	0.00
12.40	1.25	1.03	0.00	15.00	1.25	1.03	0.00
12.45	1.25	1.03	0.00	15.05	1.25	1.03	0.00
12.50	1.25	1.03	0.00	15.10	1.25	1.03	0.00
12.55	1.25	1.03	0.00	15.15	1.25	1.03	0.00
12.60	1.25	1.03	0.00	15.20	1.25	1.03	0.00
12.65	1.25	1.03	0.00	15.25	1.25	1.03	0.00
12.70	1.25	1.03	0.00	15.30	1.25	1.03	0.00
12.75	1.25	1.03	0.00	15.35	1.25	1.03	0.00
12.80	1.25	1.03	0.00	15.40	1.25	1.03	0.00
12.85	1.25	1.03	0.00	15.45	1.25	1.03	0.00
12.90	1.25	1.03	0.00	15.50	1.25	1.03	0.00
12.95	1.25	1.03	0.00	15.55	1.25	1.03	0.00

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP WQU 201-1 (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	1.25	1.03	0.00	18.20	1.25	1.03	0.00
15.65	1.25	1.03	0.00	18.25	1.25	1.03	0.00
15.70	1.25	1.03	0.00	18.30	1.25	1.03	0.00
15.75	1.25	1.03	0.00	18.35	1.25	1.03	0.00
15.80	1.25	1.03	0.00	18.40	1.25	1.03	0.00
15.85	1.25	1.03	0.00	18.45	1.25	1.03	0.00
15.90	1.25	1.03	0.00	18.50	1.25	1.03	0.00
15.95	1.25	1.03	0.00	18.55	1.25	1.03	0.00
16.00	1.25	1.03	0.00	18.60	1.25	1.03	0.00
16.05	1.25	1.03	0.00	18.65	1.25	1.03	0.00
16.10	1.25	1.03	0.00	18.70	1.25	1.03	0.00
16.15	1.25	1.03	0.00	18.75	1.25	1.03	0.00
16.20	1.25	1.03	0.00	18.80	1.25	1.03	0.00
16.25	1.25	1.03	0.00	18.85	1.25	1.03	0.00
16.30	1.25	1.03	0.00	18.90	1.25	1.03	0.00
16.35	1.25	1.03	0.00	18.95	1.25	1.03	0.00
16.40	1.25	1.03	0.00	19.00	1.25	1.03	0.00
16.45	1.25	1.03	0.00	19.05	1.25	1.03	0.00
16.50	1.25	1.03	0.00	19.10	1.25	1.03	0.00
16.55	1.25	1.03	0.00	19.15	1.25	1.03	0.00
16.60	1.25	1.03	0.00	19.20	1.25	1.03	0.00
16.65	1.25	1.03	0.00	19.25	1.25	1.03	0.00
16.70	1.25	1.03	0.00	19.30	1.25	1.03	0.00
16.75	1.25	1.03	0.00	19.35	1.25	1.03	0.00
16.80	1.25	1.03	0.00	19.40	1.25	1.03	0.00
16.85	1.25	1.03	0.00	19.45	1.25	1.03	0.00
16.90	1.25	1.03	0.00	19.50	1.25	1.03	0.00
16.95	1.25	1.03	0.00	19.55	1.25	1.03	0.00
17.00	1.25	1.03	0.00	19.60	1.25	1.03	0.00
17.05	1.25	1.03	0.00	19.65	1.25	1.03	0.00
17.10	1.25	1.03	0.00	19.70	1.25	1.03	0.00
17.15	1.25	1.03	0.00	19.75	1.25	1.03	0.00
17.20	1.25	1.03	0.00	19.80	1.25	1.03	0.00
17.25	1.25	1.03	0.00	19.85	1.25	1.03	0.00
17.30	1.25	1.03	0.00	19.90	1.25	1.03	0.00
17.35	1.25	1.03	0.00	19.95	1.25	1.03	0.00
17.40	1.25	1.03	0.00	20.00	1.25	1.03	0.00
17.45	1.25	1.03	0.00	20.05	1.25	1.03	0.00
17.50	1.25	1.03	0.00	20.10	1.25	1.03	0.00
17.55	1.25	1.03	0.00	20.15	1.25	1.03	0.00
17.60	1.25	1.03	0.00	20.20	1.25	1.03	0.00
17.65	1.25	1.03	0.00	20.25	1.25	1.03	0.00
17.70	1.25	1.03	0.00	20.30	1.25	1.03	0.00
17.75	1.25	1.03	0.00	20.35	1.25	1.03	0.00
17.80	1.25	1.03	0.00	20.40	1.25	1.03	0.00
17.85	1.25	1.03	0.00	20.45	1.25	1.03	0.00
17.90	1.25	1.03	0.00	20.50	1.25	1.03	0.00
17.95	1.25	1.03	0.00	20.55	1.25	1.03	0.00
18.00	1.25	1.03	0.00	20.60	1.25	1.03	0.00
18.05	1.25	1.03	0.00	20.65	1.25	1.03	0.00
18.10	1.25	1.03	0.00	20.70	1.25	1.03	0.00
18.15	1.25	1.03	0.00	20.75	1.25	1.03	0.00

Hydrograph for Subcatchment PDA4 IMP: PDA4 IMP WQU 201-1 (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	1.25	1.03	0.00	23.40	1.25	1.03	0.00
20.85	1.25	1.03	0.00	23.45	1.25	1.03	0.00
20.90	1.25	1.03	0.00	23.50	1.25	1.03	0.00
20.95	1.25	1.03	0.00	23.55	1.25	1.03	0.00
21.00	1.25	1.03	0.00	23.60	1.25	1.03	0.00
21.05	1.25	1.03	0.00	23.65	1.25	1.03	0.00
21.10	1.25	1.03	0.00	23.70	1.25	1.03	0.00
21.15	1.25	1.03	0.00	23.75	1.25	1.03	0.00
21.20	1.25	1.03	0.00	23.80	1.25	1.03	0.00
21.25	1.25	1.03	0.00	23.85	1.25	1.03	0.00
21.30	1.25	1.03	0.00	23.90	1.25	1.03	0.00
21.35	1.25	1.03	0.00	23.95	1.25	1.03	0.00
21.40	1.25	1.03	0.00	24.00	1.25	1.03	0.00
21.45	1.25	1.03	0.00				
21.50	1.25	1.03	0.00				
21.55	1.25	1.03	0.00				
21.60	1.25	1.03	0.00				
21.65	1.25	1.03	0.00				
21.70	1.25	1.03	0.00				
21.75	1.25	1.03	0.00				
21.80	1.25	1.03	0.00				
21.85	1.25	1.03	0.00				
21.90	1.25	1.03	0.00				
21.95	1.25	1.03	0.00				
22.00	1.25	1.03	0.00				
22.05	1.25	1.03	0.00				
22.10	1.25	1.03	0.00				
22.15	1.25	1.03	0.00				
22.20	1.25	1.03	0.00				
22.25	1.25	1.03	0.00				
22.30	1.25	1.03	0.00				
22.35	1.25	1.03	0.00				
22.40	1.25	1.03	0.00				
22.45	1.25	1.03	0.00				
22.50	1.25	1.03	0.00				
22.55	1.25	1.03	0.00				
22.60	1.25	1.03	0.00				
22.65	1.25	1.03	0.00				
22.70	1.25	1.03	0.00				
22.75	1.25	1.03	0.00				
22.80	1.25	1.03	0.00				
22.85	1.25	1.03	0.00				
22.90	1.25	1.03	0.00				
22.95	1.25	1.03	0.00				
23.00	1.25	1.03	0.00				
23.05	1.25	1.03	0.00				
23.10	1.25	1.03	0.00				
23.15	1.25	1.03	0.00				
23.20	1.25	1.03	0.00				
23.25	1.25	1.03	0.00				
23.30	1.25	1.03	0.00				
23.35	1.25	1.03	0.00				

Summary for Subcatchment PDA4A IMP: PDA4A IMP WQU 4

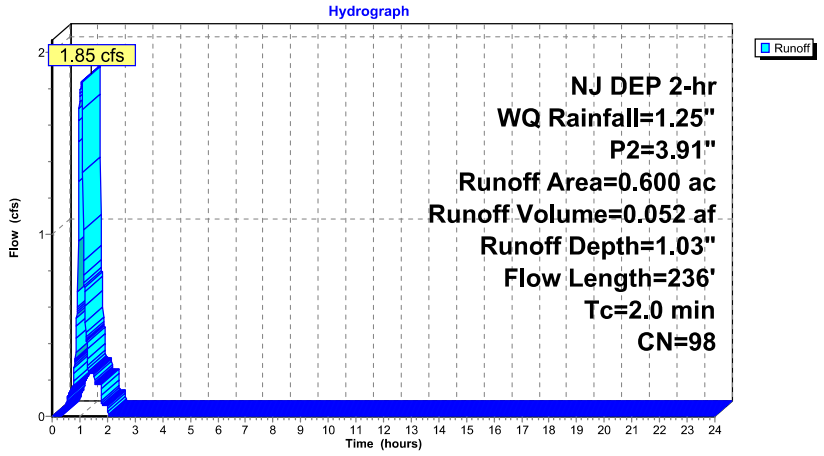
Runoff = 1.85 cfs @ 1.08 hrs, Volume= 0.052 af, Depth= 1.03"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr WQ Rainfall=1.25", P2=3.91"

	Area (ac)	CN	Description
*	0.320	98	Impervious Vehicular (proposed)
*	0.280	98	Existing Impervious
	0.600	98	Weighted Average
	0.600		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0150	1.36		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	88	0.0150	2.49		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
0.2	48	0.0040	3.26	5.76	**Pipe Channel, 18" pipe** 18.0" Round Area= 1.8 sf Perim= 4.7' r= 0.38' n= 0.015
2.0	236	Total			

Subcatchment PDA4A IMP: PDA4A IMP WQU 4



Hydrograph for Subcatchment PDA4A IMP: PDA4A IMP WQU 4

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	1.25	1.03	0.00
0.05	0.00	0.00	0.00	2.65	1.25	1.03	0.00
0.10	0.01	0.00	0.00	2.70	1.25	1.03	0.00
0.15	0.01	0.00	0.00	2.75	1.25	1.03	0.00
0.20	0.02	0.00	0.00	2.80	1.25	1.03	0.00
0.25	0.03	0.00	0.00	2.85	1.25	1.03	0.00
0.30	0.04	0.00	0.00	2.90	1.25	1.03	0.00
0.35	0.06	0.00	0.01	2.95	1.25	1.03	0.00
0.40	0.07	0.00	0.03	3.00	1.25	1.03	0.00
0.45	0.09	0.01	0.05	3.05	1.25	1.03	0.00
0.50	0.10	0.01	0.06	3.10	1.25	1.03	0.00
0.55	0.12	0.02	0.10	3.15	1.25	1.03	0.00
0.60	0.14	0.03	0.12	3.20	1.25	1.03	0.00
0.65	0.16	0.04	0.14	3.25	1.25	1.03	0.00
0.70	0.18	0.06	0.15	3.30	1.25	1.03	0.00
0.75	0.20	0.07	0.16	3.35	1.25	1.03	0.00
0.80	0.23	0.09	0.29	3.40	1.25	1.03	0.00
0.85	0.28	0.13	0.35	3.45	1.25	1.03	0.00
0.90	0.34	0.18	0.58	3.50	1.25	1.03	0.00
0.95	0.46	0.29	1.29	3.55	1.25	1.03	0.00
1.00	0.63	0.43	1.76	3.60	1.25	1.03	0.00
1.05	0.79	0.58	**1.82**	3.65	1.25	1.03	0.00
1.10	0.91	0.71	**1.69**	3.70	1.25	1.03	0.00
1.15	0.97	0.76	0.74	3.75	1.25	1.03	0.00
1.20	1.02	0.81	0.52	3.80	1.25	1.03	0.00
1.25	1.05	0.84	0.41	3.85	1.25	1.03	0.00
1.30	1.07	0.86	0.26	3.90	1.25	1.03	0.00
1.35	1.09	0.88	0.24	3.95	1.25	1.03	0.00
1.40	1.11	0.90	0.23	4.00	1.25	1.03	0.00
1.45	1.13	0.92	0.23	4.05	1.25	1.03	0.00
1.50	1.15	0.94	0.23	4.10	1.25	1.03	0.00
1.55	1.17	0.95	0.18	4.15	1.25	1.03	0.00
1.60	1.18	0.97	0.18	4.20	1.25	1.03	0.00
1.65	1.20	0.98	0.18	4.25	1.25	1.03	0.00
1.70	1.21	1.00	0.18	4.30	1.25	1.03	0.00
1.75	1.23	1.01	0.18	4.35	1.25	1.03	0.00
1.80	1.23	1.02	0.07	4.40	1.25	1.03	0.00
1.85	1.24	1.02	0.06	4.45	1.25	1.03	0.00
1.90	1.24	1.02	0.06	4.50	1.25	1.03	0.00
1.95	1.25	1.03	0.06	4.55	1.25	1.03	0.00
2.00	**1.25**	**1.03**	0.06	4.60	1.25	1.03	0.00
2.05	1.25	1.03	0.01	4.65	1.25	1.03	0.00
2.10	1.25	1.03	0.00	4.70	1.25	1.03	0.00
2.15	1.25	1.03	0.00	4.75	1.25	1.03	0.00
2.20	1.25	1.03	0.00	4.80	1.25	1.03	0.00
2.25	1.25	1.03	0.00	4.85	1.25	1.03	0.00
2.30	1.25	1.03	0.00	4.90	1.25	1.03	0.00
2.35	1.25	1.03	0.00	4.95	1.25	1.03	0.00
2.40	1.25	1.03	0.00	5.00	1.25	1.03	0.00
2.45	1.25	1.03	0.00	5.05	1.25	1.03	0.00
2.50	1.25	1.03	0.00	5.10	1.25	1.03	0.00
2.55	1.25	1.03	0.00	5.15	1.25	1.03	0.00

Hydrograph for Subcatchment PDA4A IMP: PDA4A IMP WQU 4 (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	1.25	1.03	0.00	7.80	1.25	1.03	0.00
5.25	1.25	1.03	0.00	7.85	1.25	1.03	0.00
5.30	1.25	1.03	0.00	7.90	1.25	1.03	0.00
5.35	1.25	1.03	0.00	7.95	1.25	1.03	0.00
5.40	1.25	1.03	0.00	8.00	1.25	1.03	0.00
5.45	1.25	1.03	0.00	8.05	1.25	1.03	0.00
5.50	1.25	1.03	0.00	8.10	1.25	1.03	0.00
5.55	1.25	1.03	0.00	8.15	1.25	1.03	0.00
5.60	1.25	1.03	0.00	8.20	1.25	1.03	0.00
5.65	1.25	1.03	0.00	8.25	1.25	1.03	0.00
5.70	1.25	1.03	0.00	8.30	1.25	1.03	0.00
5.75	1.25	1.03	0.00	8.35	1.25	1.03	0.00
5.80	1.25	1.03	0.00	8.40	1.25	1.03	0.00
5.85	1.25	1.03	0.00	8.45	1.25	1.03	0.00
5.90	1.25	1.03	0.00	8.50	1.25	1.03	0.00
5.95	1.25	1.03	0.00	8.55	1.25	1.03	0.00
6.00	1.25	1.03	0.00	8.60	1.25	1.03	0.00
6.05	1.25	1.03	0.00	8.65	1.25	1.03	0.00
6.10	1.25	1.03	0.00	8.70	1.25	1.03	0.00
6.15	1.25	1.03	0.00	8.75	1.25	1.03	0.00
6.20	1.25	1.03	0.00	8.80	1.25	1.03	0.00
6.25	1.25	1.03	0.00	8.85	1.25	1.03	0.00
6.30	1.25	1.03	0.00	8.90	1.25	1.03	0.00
6.35	1.25	1.03	0.00	8.95	1.25	1.03	0.00
6.40	1.25	1.03	0.00	9.00	1.25	1.03	0.00
6.45	1.25	1.03	0.00	9.05	1.25	1.03	0.00
6.50	1.25	1.03	0.00	9.10	1.25	1.03	0.00
6.55	1.25	1.03	0.00	9.15	1.25	1.03	0.00
6.60	1.25	1.03	0.00	9.20	1.25	1.03	0.00
6.65	1.25	1.03	0.00	9.25	1.25	1.03	0.00
6.70	1.25	1.03	0.00	9.30	1.25	1.03	0.00
6.75	1.25	1.03	0.00	9.35	1.25	1.03	0.00
6.80	1.25	1.03	0.00	9.40	1.25	1.03	0.00
6.85	1.25	1.03	0.00	9.45	1.25	1.03	0.00
6.90	1.25	1.03	0.00	9.50	1.25	1.03	0.00
6.95	1.25	1.03	0.00	9.55	1.25	1.03	0.00
7.00	1.25	1.03	0.00	9.60	1.25	1.03	0.00
7.05	1.25	1.03	0.00	9.65	1.25	1.03	0.00
7.10	1.25	1.03	0.00	9.70	1.25	1.03	0.00
7.15	1.25	1.03	0.00	9.75	1.25	1.03	0.00
7.20	1.25	1.03	0.00	9.80	1.25	1.03	0.00
7.25	1.25	1.03	0.00	9.85	1.25	1.03	0.00
7.30	1.25	1.03	0.00	9.90	1.25	1.03	0.00
7.35	1.25	1.03	0.00	9.95	1.25	1.03	0.00
7.40	1.25	1.03	0.00	10.00	1.25	1.03	0.00
7.45	1.25	1.03	0.00	10.05	1.25	1.03	0.00
7.50	1.25	1.03	0.00	10.10	1.25	1.03	0.00
7.55	1.25	1.03	0.00	10.15	1.25	1.03	0.00
7.60	1.25	1.03	0.00	10.20	1.25	1.03	0.00
7.65	1.25	1.03	0.00	10.25	1.25	1.03	0.00
7.70	1.25	1.03	0.00	10.30	1.25	1.03	0.00
7.75	1.25	1.03	0.00	10.35	1.25	1.03	0.00

Hydrograph for Subcatchment PDA4A IMP: PDA4A IMP WQU 4 (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.25	1.03	0.00	13.00	1.25	1.03	0.00
10.45	1.25	1.03	0.00	13.05	1.25	1.03	0.00
10.50	1.25	1.03	0.00	13.10	1.25	1.03	0.00
10.55	1.25	1.03	0.00	13.15	1.25	1.03	0.00
10.60	1.25	1.03	0.00	13.20	1.25	1.03	0.00
10.65	1.25	1.03	0.00	13.25	1.25	1.03	0.00
10.70	1.25	1.03	0.00	13.30	1.25	1.03	0.00
10.75	1.25	1.03	0.00	13.35	1.25	1.03	0.00
10.80	1.25	1.03	0.00	13.40	1.25	1.03	0.00
10.85	1.25	1.03	0.00	13.45	1.25	1.03	0.00
10.90	1.25	1.03	0.00	13.50	1.25	1.03	0.00
10.95	1.25	1.03	0.00	13.55	1.25	1.03	0.00
11.00	1.25	1.03	0.00	13.60	1.25	1.03	0.00
11.05	1.25	1.03	0.00	13.65	1.25	1.03	0.00
11.10	1.25	1.03	0.00	13.70	1.25	1.03	0.00
11.15	1.25	1.03	0.00	13.75	1.25	1.03	0.00
11.20	1.25	1.03	0.00	13.80	1.25	1.03	0.00
11.25	1.25	1.03	0.00	13.85	1.25	1.03	0.00
11.30	1.25	1.03	0.00	13.90	1.25	1.03	0.00
11.35	1.25	1.03	0.00	13.95	1.25	1.03	0.00
11.40	1.25	1.03	0.00	14.00	1.25	1.03	0.00
11.45	1.25	1.03	0.00	14.05	1.25	1.03	0.00
11.50	1.25	1.03	0.00	14.10	1.25	1.03	0.00
11.55	1.25	1.03	0.00	14.15	1.25	1.03	0.00
11.60	1.25	1.03	0.00	14.20	1.25	1.03	0.00
11.65	1.25	1.03	0.00	14.25	1.25	1.03	0.00
11.70	1.25	1.03	0.00	14.30	1.25	1.03	0.00
11.75	1.25	1.03	0.00	14.35	1.25	1.03	0.00
11.80	1.25	1.03	0.00	14.40	1.25	1.03	0.00
11.85	1.25	1.03	0.00	14.45	1.25	1.03	0.00
11.90	1.25	1.03	0.00	14.50	1.25	1.03	0.00
11.95	1.25	1.03	0.00	14.55	1.25	1.03	0.00
12.00	1.25	1.03	0.00	14.60	1.25	1.03	0.00
12.05	1.25	1.03	0.00	14.65	1.25	1.03	0.00
12.10	1.25	1.03	0.00	14.70	1.25	1.03	0.00
12.15	1.25	1.03	0.00	14.75	1.25	1.03	0.00
12.20	1.25	1.03	0.00	14.80	1.25	1.03	0.00
12.25	1.25	1.03	0.00	14.85	1.25	1.03	0.00
12.30	1.25	1.03	0.00	14.90	1.25	1.03	0.00
12.35	1.25	1.03	0.00	14.95	1.25	1.03	0.00
12.40	1.25	1.03	0.00	15.00	1.25	1.03	0.00
12.45	1.25	1.03	0.00	15.05	1.25	1.03	0.00
12.50	1.25	1.03	0.00	15.10	1.25	1.03	0.00
12.55	1.25	1.03	0.00	15.15	1.25	1.03	0.00
12.60	1.25	1.03	0.00	15.20	1.25	1.03	0.00
12.65	1.25	1.03	0.00	15.25	1.25	1.03	0.00
12.70	1.25	1.03	0.00	15.30	1.25	1.03	0.00
12.75	1.25	1.03	0.00	15.35	1.25	1.03	0.00
12.80	1.25	1.03	0.00	15.40	1.25	1.03	0.00
12.85	1.25	1.03	0.00	15.45	1.25	1.03	0.00
12.90	1.25	1.03	0.00	15.50	1.25	1.03	0.00
12.95	1.25	1.03	0.00	15.55	1.25	1.03	0.00

Hydrograph for Subcatchment PDA4A IMP: PDA4A IMP WQU 4 (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	1.25	1.03	0.00	18.20	1.25	1.03	0.00
15.65	1.25	1.03	0.00	18.25	1.25	1.03	0.00
15.70	1.25	1.03	0.00	18.30	1.25	1.03	0.00
15.75	1.25	1.03	0.00	18.35	1.25	1.03	0.00
15.80	1.25	1.03	0.00	18.40	1.25	1.03	0.00
15.85	1.25	1.03	0.00	18.45	1.25	1.03	0.00
15.90	1.25	1.03	0.00	18.50	1.25	1.03	0.00
15.95	1.25	1.03	0.00	18.55	1.25	1.03	0.00
16.00	1.25	1.03	0.00	18.60	1.25	1.03	0.00
16.05	1.25	1.03	0.00	18.65	1.25	1.03	0.00
16.10	1.25	1.03	0.00	18.70	1.25	1.03	0.00
16.15	1.25	1.03	0.00	18.75	1.25	1.03	0.00
16.20	1.25	1.03	0.00	18.80	1.25	1.03	0.00
16.25	1.25	1.03	0.00	18.85	1.25	1.03	0.00
16.30	1.25	1.03	0.00	18.90	1.25	1.03	0.00
16.35	1.25	1.03	0.00	18.95	1.25	1.03	0.00
16.40	1.25	1.03	0.00	19.00	1.25	1.03	0.00
16.45	1.25	1.03	0.00	19.05	1.25	1.03	0.00
16.50	1.25	1.03	0.00	19.10	1.25	1.03	0.00
16.55	1.25	1.03	0.00	19.15	1.25	1.03	0.00
16.60	1.25	1.03	0.00	19.20	1.25	1.03	0.00
16.65	1.25	1.03	0.00	19.25	1.25	1.03	0.00
16.70	1.25	1.03	0.00	19.30	1.25	1.03	0.00
16.75	1.25	1.03	0.00	19.35	1.25	1.03	0.00
16.80	1.25	1.03	0.00	19.40	1.25	1.03	0.00
16.85	1.25	1.03	0.00	19.45	1.25	1.03	0.00
16.90	1.25	1.03	0.00	19.50	1.25	1.03	0.00
16.95	1.25	1.03	0.00	19.55	1.25	1.03	0.00
17.00	1.25	1.03	0.00	19.60	1.25	1.03	0.00
17.05	1.25	1.03	0.00	19.65	1.25	1.03	0.00
17.10	1.25	1.03	0.00	19.70	1.25	1.03	0.00
17.15	1.25	1.03	0.00	19.75	1.25	1.03	0.00
17.20	1.25	1.03	0.00	19.80	1.25	1.03	0.00
17.25	1.25	1.03	0.00	19.85	1.25	1.03	0.00
17.30	1.25	1.03	0.00	19.90	1.25	1.03	0.00
17.35	1.25	1.03	0.00	19.95	1.25	1.03	0.00
17.40	1.25	1.03	0.00	20.00	1.25	1.03	0.00
17.45	1.25	1.03	0.00	20.05	1.25	1.03	0.00
17.50	1.25	1.03	0.00	20.10	1.25	1.03	0.00
17.55	1.25	1.03	0.00	20.15	1.25	1.03	0.00
17.60	1.25	1.03	0.00	20.20	1.25	1.03	0.00
17.65	1.25	1.03	0.00	20.25	1.25	1.03	0.00
17.70	1.25	1.03	0.00	20.30	1.25	1.03	0.00
17.75	1.25	1.03	0.00	20.35	1.25	1.03	0.00
17.80	1.25	1.03	0.00	20.40	1.25	1.03	0.00
17.85	1.25	1.03	0.00	20.45	1.25	1.03	0.00
17.90	1.25	1.03	0.00	20.50	1.25	1.03	0.00
17.95	1.25	1.03	0.00	20.55	1.25	1.03	0.00
18.00	1.25	1.03	0.00	20.60	1.25	1.03	0.00
18.05	1.25	1.03	0.00	20.65	1.25	1.03	0.00
18.10	1.25	1.03	0.00	20.70	1.25	1.03	0.00
18.15	1.25	1.03	0.00	20.75	1.25	1.03	0.00

Hydrograph for Subcatchment PDA4A IMP: PDA4A IMP WQU 4 (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	1.25	1.03	0.00	23.40	1.25	1.03	0.00
20.85	1.25	1.03	0.00	23.45	1.25	1.03	0.00
20.90	1.25	1.03	0.00	23.50	1.25	1.03	0.00
20.95	1.25	1.03	0.00	23.55	1.25	1.03	0.00
21.00	1.25	1.03	0.00	23.60	1.25	1.03	0.00
21.05	1.25	1.03	0.00	23.65	1.25	1.03	0.00
21.10	1.25	1.03	0.00	23.70	1.25	1.03	0.00
21.15	1.25	1.03	0.00	23.75	1.25	1.03	0.00
21.20	1.25	1.03	0.00	23.80	1.25	1.03	0.00
21.25	1.25	1.03	0.00	23.85	1.25	1.03	0.00
21.30	1.25	1.03	0.00	23.90	1.25	1.03	0.00
21.35	1.25	1.03	0.00	23.95	1.25	1.03	0.00
21.40	1.25	1.03	0.00	24.00	1.25	1.03	0.00
21.45	1.25	1.03	0.00				
21.50	1.25	1.03	0.00				
21.55	1.25	1.03	0.00				
21.60	1.25	1.03	0.00				
21.65	1.25	1.03	0.00				
21.70	1.25	1.03	0.00				
21.75	1.25	1.03	0.00				
21.80	1.25	1.03	0.00				
21.85	1.25	1.03	0.00				
21.90	1.25	1.03	0.00				
21.95	1.25	1.03	0.00				
22.00	1.25	1.03	0.00				
22.05	1.25	1.03	0.00				
22.10	1.25	1.03	0.00				
22.15	1.25	1.03	0.00				
22.20	1.25	1.03	0.00				
22.25	1.25	1.03	0.00				
22.30	1.25	1.03	0.00				
22.35	1.25	1.03	0.00				
22.40	1.25	1.03	0.00				
22.45	1.25	1.03	0.00				
22.50	1.25	1.03	0.00				
22.55	1.25	1.03	0.00				
22.60	1.25	1.03	0.00				
22.65	1.25	1.03	0.00				
22.70	1.25	1.03	0.00				
22.75	1.25	1.03	0.00				
22.80	1.25	1.03	0.00				
22.85	1.25	1.03	0.00				
22.90	1.25	1.03	0.00				
22.95	1.25	1.03	0.00				
23.00	1.25	1.03	0.00				
23.05	1.25	1.03	0.00				
23.10	1.25	1.03	0.00				
23.15	1.25	1.03	0.00				
23.20	1.25	1.03	0.00				
23.25	1.25	1.03	0.00				
23.30	1.25	1.03	0.00				
23.35	1.25	1.03	0.00				

Summary for Subcatchment PDA4B IMP: PDA4B IMP WQU 5

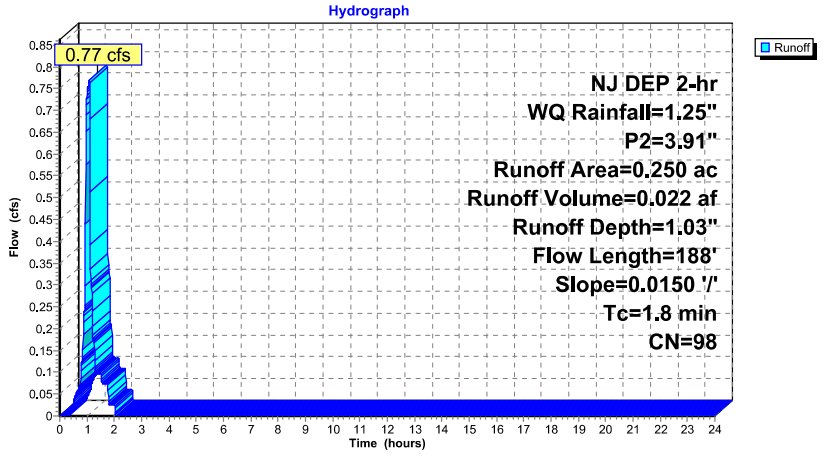
Runoff = 0.77 cfs @ 1.08 hrs, Volume= 0.022 af, Depth= 1.03"
Routed to Link PPOI-1 : PPOI-1

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs
NJ DEP 2-hr WQ Rainfall=1.25", P2=3.91"

	Area (ac)	CN	Description
*	0.250	98	Impervious Vehicular (proposed)
	0.250		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.2	100	0.0150	1.36		**Sheet Flow, Paved** Smooth surfaces n= 0.011 P2= 3.91"
0.6	88	0.0150	2.49		**Shallow Concentrated Flow, Paved** Paved Kv= 20.3 fps
1.8	188	Total			

Subcatchment PDA4B IMP: PDA4B IMP WQU 5



Hydrograph for Subcatchment PDA4B IMP: PDA4B IMP WQU 5

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	2.60	1.25	1.03	0.00
0.05	0.00	0.00	0.00	2.65	1.25	1.03	0.00
0.10	0.01	0.00	0.00	2.70	1.25	1.03	0.00
0.15	0.01	0.00	0.00	2.75	1.25	1.03	0.00
0.20	0.02	0.00	0.00	2.80	1.25	1.03	0.00
0.25	0.03	0.00	0.00	2.85	1.25	1.03	0.00
0.30	0.04	0.00	0.00	2.90	1.25	1.03	0.00
0.35	0.06	0.00	0.00	2.95	1.25	1.03	0.00
0.40	0.07	0.00	0.01	3.00	1.25	1.03	0.00
0.45	0.09	0.01	0.02	3.05	1.25	1.03	0.00
0.50	0.10	0.01	0.03	3.10	1.25	1.03	0.00
0.55	0.12	0.02	0.04	3.15	1.25	1.03	0.00
0.60	0.14	0.03	0.05	3.20	1.25	1.03	0.00
0.65	0.16	0.04	0.06	3.25	1.25	1.03	0.00
0.70	0.18	0.06	0.06	3.30	1.25	1.03	0.00
0.75	0.20	0.07	0.07	3.35	1.25	1.03	0.00
0.80	0.23	0.09	0.12	3.40	1.25	1.03	0.00
0.85	0.28	0.13	0.15	3.45	1.25	1.03	0.00
0.90	0.34	0.18	0.24	3.50	1.25	1.03	0.00
0.95	0.46	0.29	0.58	3.55	1.25	1.03	0.00
1.00	0.63	0.43	0.74	3.60	1.25	1.03	0.00
1.05	0.79	0.58	**0.76**	3.65	1.25	1.03	0.00
1.10	0.91	0.71	**0.68**	3.70	1.25	1.03	0.00
1.15	0.97	0.76	0.30	3.75	1.25	1.03	0.00
1.20	1.02	0.81	0.20	3.80	1.25	1.03	0.00
1.25	1.05	0.84	0.17	3.85	1.25	1.03	0.00
1.30	1.07	0.86	0.10	3.90	1.25	1.03	0.00
1.35	1.09	0.88	0.10	3.95	1.25	1.03	0.00
1.40	1.11	0.90	0.10	4.00	1.25	1.03	0.00
1.45	1.13	0.92	0.10	4.05	1.25	1.03	0.00
1.50	1.15	0.94	0.10	4.10	1.25	1.03	0.00
1.55	1.17	0.95	0.08	4.15	1.25	1.03	0.00
1.60	1.18	0.97	0.07	4.20	1.25	1.03	0.00
1.65	1.20	0.98	0.07	4.25	1.25	1.03	0.00
1.70	1.21	1.00	0.07	4.30	1.25	1.03	0.00
1.75	1.23	1.01	0.07	4.35	1.25	1.03	0.00
1.80	1.23	1.02	0.03	4.40	1.25	1.03	0.00
1.85	1.24	1.02	0.02	4.45	1.25	1.03	0.00
1.90	1.24	1.02	0.02	4.50	1.25	1.03	0.00
1.95	1.25	1.03	0.02	4.55	1.25	1.03	0.00
2.00	**1.25**	**1.03**	0.02	4.60	1.25	1.03	0.00
2.05	1.25	1.03	0.00	4.65	1.25	1.03	0.00
2.10	1.25	1.03	0.00	4.70	1.25	1.03	0.00
2.15	1.25	1.03	0.00	4.75	1.25	1.03	0.00
2.20	1.25	1.03	0.00	4.80	1.25	1.03	0.00
2.25	1.25	1.03	0.00	4.85	1.25	1.03	0.00
2.30	1.25	1.03	0.00	4.90	1.25	1.03	0.00
2.35	1.25	1.03	0.00	4.95	1.25	1.03	0.00
2.40	1.25	1.03	0.00	5.00	1.25	1.03	0.00
2.45	1.25	1.03	0.00	5.05	1.25	1.03	0.00
2.50	1.25	1.03	0.00	5.10	1.25	1.03	0.00
2.55	1.25	1.03	0.00	5.15	1.25	1.03	0.00

Hydrograph for Subcatchment PDA4B IMP: PDA4B IMP WQU 5 (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
5.20	1.25	1.03	0.00	7.80	1.25	1.03	0.00
5.25	1.25	1.03	0.00	7.85	1.25	1.03	0.00
5.30	1.25	1.03	0.00	7.90	1.25	1.03	0.00
5.35	1.25	1.03	0.00	7.95	1.25	1.03	0.00
5.40	1.25	1.03	0.00	8.00	1.25	1.03	0.00
5.45	1.25	1.03	0.00	8.05	1.25	1.03	0.00
5.50	1.25	1.03	0.00	8.10	1.25	1.03	0.00
5.55	1.25	1.03	0.00	8.15	1.25	1.03	0.00
5.60	1.25	1.03	0.00	8.20	1.25	1.03	0.00
5.65	1.25	1.03	0.00	8.25	1.25	1.03	0.00
5.70	1.25	1.03	0.00	8.30	1.25	1.03	0.00
5.75	1.25	1.03	0.00	8.35	1.25	1.03	0.00
5.80	1.25	1.03	0.00	8.40	1.25	1.03	0.00
5.85	1.25	1.03	0.00	8.45	1.25	1.03	0.00
5.90	1.25	1.03	0.00	8.50	1.25	1.03	0.00
5.95	1.25	1.03	0.00	8.55	1.25	1.03	0.00
6.00	1.25	1.03	0.00	8.60	1.25	1.03	0.00
6.05	1.25	1.03	0.00	8.65	1.25	1.03	0.00
6.10	1.25	1.03	0.00	8.70	1.25	1.03	0.00
6.15	1.25	1.03	0.00	8.75	1.25	1.03	0.00
6.20	1.25	1.03	0.00	8.80	1.25	1.03	0.00
6.25	1.25	1.03	0.00	8.85	1.25	1.03	0.00
6.30	1.25	1.03	0.00	8.90	1.25	1.03	0.00
6.35	1.25	1.03	0.00	8.95	1.25	1.03	0.00
6.40	1.25	1.03	0.00	9.00	1.25	1.03	0.00
6.45	1.25	1.03	0.00	9.05	1.25	1.03	0.00
6.50	1.25	1.03	0.00	9.10	1.25	1.03	0.00
6.55	1.25	1.03	0.00	9.15	1.25	1.03	0.00
6.60	1.25	1.03	0.00	9.20	1.25	1.03	0.00
6.65	1.25	1.03	0.00	9.25	1.25	1.03	0.00
6.70	1.25	1.03	0.00	9.30	1.25	1.03	0.00
6.75	1.25	1.03	0.00	9.35	1.25	1.03	0.00
6.80	1.25	1.03	0.00	9.40	1.25	1.03	0.00
6.85	1.25	1.03	0.00	9.45	1.25	1.03	0.00
6.90	1.25	1.03	0.00	9.50	1.25	1.03	0.00
6.95	1.25	1.03	0.00	9.55	1.25	1.03	0.00
7.00	1.25	1.03	0.00	9.60	1.25	1.03	0.00
7.05	1.25	1.03	0.00	9.65	1.25	1.03	0.00
7.10	1.25	1.03	0.00	9.70	1.25	1.03	0.00
7.15	1.25	1.03	0.00	9.75	1.25	1.03	0.00
7.20	1.25	1.03	0.00	9.80	1.25	1.03	0.00
7.25	1.25	1.03	0.00	9.85	1.25	1.03	0.00
7.30	1.25	1.03	0.00	9.90	1.25	1.03	0.00
7.35	1.25	1.03	0.00	9.95	1.25	1.03	0.00
7.40	1.25	1.03	0.00	10.00	1.25	1.03	0.00
7.45	1.25	1.03	0.00	10.05	1.25	1.03	0.00
7.50	1.25	1.03	0.00	10.10	1.25	1.03	0.00
7.55	1.25	1.03	0.00	10.15	1.25	1.03	0.00
7.60	1.25	1.03	0.00	10.20	1.25	1.03	0.00
7.65	1.25	1.03	0.00	10.25	1.25	1.03	0.00
7.70	1.25	1.03	0.00	10.30	1.25	1.03	0.00
7.75	1.25	1.03	0.00	10.35	1.25	1.03	0.00

Hydrograph for Subcatchment PDA4B IMP: PDA4B IMP WQU 5 (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
10.40	1.25	1.03	0.00	13.00	1.25	1.03	0.00
10.45	1.25	1.03	0.00	13.05	1.25	1.03	0.00
10.50	1.25	1.03	0.00	13.10	1.25	1.03	0.00
10.55	1.25	1.03	0.00	13.15	1.25	1.03	0.00
10.60	1.25	1.03	0.00	13.20	1.25	1.03	0.00
10.65	1.25	1.03	0.00	13.25	1.25	1.03	0.00
10.70	1.25	1.03	0.00	13.30	1.25	1.03	0.00
10.75	1.25	1.03	0.00	13.35	1.25	1.03	0.00
10.80	1.25	1.03	0.00	13.40	1.25	1.03	0.00
10.85	1.25	1.03	0.00	13.45	1.25	1.03	0.00
10.90	1.25	1.03	0.00	13.50	1.25	1.03	0.00
10.95	1.25	1.03	0.00	13.55	1.25	1.03	0.00
11.00	1.25	1.03	0.00	13.60	1.25	1.03	0.00
11.05	1.25	1.03	0.00	13.65	1.25	1.03	0.00
11.10	1.25	1.03	0.00	13.70	1.25	1.03	0.00
11.15	1.25	1.03	0.00	13.75	1.25	1.03	0.00
11.20	1.25	1.03	0.00	13.80	1.25	1.03	0.00
11.25	1.25	1.03	0.00	13.85	1.25	1.03	0.00
11.30	1.25	1.03	0.00	13.90	1.25	1.03	0.00
11.35	1.25	1.03	0.00	13.95	1.25	1.03	0.00
11.40	1.25	1.03	0.00	14.00	1.25	1.03	0.00
11.45	1.25	1.03	0.00	14.05	1.25	1.03	0.00
11.50	1.25	1.03	0.00	14.10	1.25	1.03	0.00
11.55	1.25	1.03	0.00	14.15	1.25	1.03	0.00
11.60	1.25	1.03	0.00	14.20	1.25	1.03	0.00
11.65	1.25	1.03	0.00	14.25	1.25	1.03	0.00
11.70	1.25	1.03	0.00	14.30	1.25	1.03	0.00
11.75	1.25	1.03	0.00	14.35	1.25	1.03	0.00
11.80	1.25	1.03	0.00	14.40	1.25	1.03	0.00
11.85	1.25	1.03	0.00	14.45	1.25	1.03	0.00
11.90	1.25	1.03	0.00	14.50	1.25	1.03	0.00
11.95	1.25	1.03	0.00	14.55	1.25	1.03	0.00
12.00	1.25	1.03	0.00	14.60	1.25	1.03	0.00
12.05	1.25	1.03	0.00	14.65	1.25	1.03	0.00
12.10	1.25	1.03	0.00	14.70	1.25	1.03	0.00
12.15	1.25	1.03	0.00	14.75	1.25	1.03	0.00
12.20	1.25	1.03	0.00	14.80	1.25	1.03	0.00
12.25	1.25	1.03	0.00	14.85	1.25	1.03	0.00
12.30	1.25	1.03	0.00	14.90	1.25	1.03	0.00
12.35	1.25	1.03	0.00	14.95	1.25	1.03	0.00
12.40	1.25	1.03	0.00	15.00	1.25	1.03	0.00
12.45	1.25	1.03	0.00	15.05	1.25	1.03	0.00
12.50	1.25	1.03	0.00	15.10	1.25	1.03	0.00
12.55	1.25	1.03	0.00	15.15	1.25	1.03	0.00
12.60	1.25	1.03	0.00	15.20	1.25	1.03	0.00
12.65	1.25	1.03	0.00	15.25	1.25	1.03	0.00
12.70	1.25	1.03	0.00	15.30	1.25	1.03	0.00
12.75	1.25	1.03	0.00	15.35	1.25	1.03	0.00
12.80	1.25	1.03	0.00	15.40	1.25	1.03	0.00
12.85	1.25	1.03	0.00	15.45	1.25	1.03	0.00
12.90	1.25	1.03	0.00	15.50	1.25	1.03	0.00
12.95	1.25	1.03	0.00	15.55	1.25	1.03	0.00

Hydrograph for Subcatchment PDA4B IMP: PDA4B IMP WQU 5 (continued)

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
15.60	1.25	1.03	0.00	18.20	1.25	1.03	0.00
15.65	1.25	1.03	0.00	18.25	1.25	1.03	0.00
15.70	1.25	1.03	0.00	18.30	1.25	1.03	0.00
15.75	1.25	1.03	0.00	18.35	1.25	1.03	0.00
15.80	1.25	1.03	0.00	18.40	1.25	1.03	0.00
15.85	1.25	1.03	0.00	18.45	1.25	1.03	0.00
15.90	1.25	1.03	0.00	18.50	1.25	1.03	0.00
15.95	1.25	1.03	0.00	18.55	1.25	1.03	0.00
16.00	1.25	1.03	0.00	18.60	1.25	1.03	0.00
16.05	1.25	1.03	0.00	18.65	1.25	1.03	0.00
16.10	1.25	1.03	0.00	18.70	1.25	1.03	0.00
16.15	1.25	1.03	0.00	18.75	1.25	1.03	0.00
16.20	1.25	1.03	0.00	18.80	1.25	1.03	0.00
16.25	1.25	1.03	0.00	18.85	1.25	1.03	0.00
16.30	1.25	1.03	0.00	18.90	1.25	1.03	0.00
16.35	1.25	1.03	0.00	18.95	1.25	1.03	0.00
16.40	1.25	1.03	0.00	19.00	1.25	1.03	0.00
16.45	1.25	1.03	0.00	19.05	1.25	1.03	0.00
16.50	1.25	1.03	0.00	19.10	1.25	1.03	0.00
16.55	1.25	1.03	0.00	19.15	1.25	1.03	0.00
16.60	1.25	1.03	0.00	19.20	1.25	1.03	0.00
16.65	1.25	1.03	0.00	19.25	1.25	1.03	0.00
16.70	1.25	1.03	0.00	19.30	1.25	1.03	0.00
16.75	1.25	1.03	0.00	19.35	1.25	1.03	0.00
16.80	1.25	1.03	0.00	19.40	1.25	1.03	0.00
16.85	1.25	1.03	0.00	19.45	1.25	1.03	0.00
16.90	1.25	1.03	0.00	19.50	1.25	1.03	0.00
16.95	1.25	1.03	0.00	19.55	1.25	1.03	0.00
17.00	1.25	1.03	0.00	19.60	1.25	1.03	0.00
17.05	1.25	1.03	0.00	19.65	1.25	1.03	0.00
17.10	1.25	1.03	0.00	19.70	1.25	1.03	0.00
17.15	1.25	1.03	0.00	19.75	1.25	1.03	0.00
17.20	1.25	1.03	0.00	19.80	1.25	1.03	0.00
17.25	1.25	1.03	0.00	19.85	1.25	1.03	0.00
17.30	1.25	1.03	0.00	19.90	1.25	1.03	0.00
17.35	1.25	1.03	0.00	19.95	1.25	1.03	0.00
17.40	1.25	1.03	0.00	20.00	1.25	1.03	0.00
17.45	1.25	1.03	0.00	20.05	1.25	1.03	0.00
17.50	1.25	1.03	0.00	20.10	1.25	1.03	0.00
17.55	1.25	1.03	0.00	20.15	1.25	1.03	0.00
17.60	1.25	1.03	0.00	20.20	1.25	1.03	0.00
17.65	1.25	1.03	0.00	20.25	1.25	1.03	0.00
17.70	1.25	1.03	0.00	20.30	1.25	1.03	0.00
17.75	1.25	1.03	0.00	20.35	1.25	1.03	0.00
17.80	1.25	1.03	0.00	20.40	1.25	1.03	0.00
17.85	1.25	1.03	0.00	20.45	1.25	1.03	0.00
17.90	1.25	1.03	0.00	20.50	1.25	1.03	0.00
17.95	1.25	1.03	0.00	20.55	1.25	1.03	0.00
18.00	1.25	1.03	0.00	20.60	1.25	1.03	0.00
18.05	1.25	1.03	0.00	20.65	1.25	1.03	0.00
18.10	1.25	1.03	0.00	20.70	1.25	1.03	0.00
18.15	1.25	1.03	0.00	20.75	1.25	1.03	0.00

Hydrograph for Subcatchment PDA4B IMP: PDA4B IMP WQU 5 (continued)

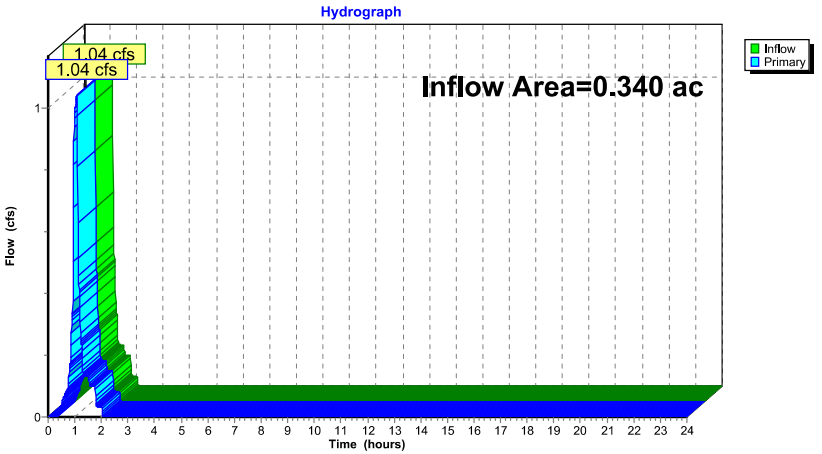
Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
20.80	1.25	1.03	0.00	23.40	1.25	1.03	0.00
20.85	1.25	1.03	0.00	23.45	1.25	1.03	0.00
20.90	1.25	1.03	0.00	23.50	1.25	1.03	0.00
20.95	1.25	1.03	0.00	23.55	1.25	1.03	0.00
21.00	1.25	1.03	0.00	23.60	1.25	1.03	0.00
21.05	1.25	1.03	0.00	23.65	1.25	1.03	0.00
21.10	1.25	1.03	0.00	23.70	1.25	1.03	0.00
21.15	1.25	1.03	0.00	23.75	1.25	1.03	0.00
21.20	1.25	1.03	0.00	23.80	1.25	1.03	0.00
21.25	1.25	1.03	0.00	23.85	1.25	1.03	0.00
21.30	1.25	1.03	0.00	23.90	1.25	1.03	0.00
21.35	1.25	1.03	0.00	23.95	1.25	1.03	0.00
21.40	1.25	1.03	0.00	24.00	1.25	1.03	0.00
21.45	1.25	1.03	0.00				
21.50	1.25	1.03	0.00				
21.55	1.25	1.03	0.00				
21.60	1.25	1.03	0.00				
21.65	1.25	1.03	0.00				
21.70	1.25	1.03	0.00				
21.75	1.25	1.03	0.00				
21.80	1.25	1.03	0.00				
21.85	1.25	1.03	0.00				
21.90	1.25	1.03	0.00				
21.95	1.25	1.03	0.00				
22.00	1.25	1.03	0.00				
22.05	1.25	1.03	0.00				
22.10	1.25	1.03	0.00				
22.15	1.25	1.03	0.00				
22.20	1.25	1.03	0.00				
22.25	1.25	1.03	0.00				
22.30	1.25	1.03	0.00				
22.35	1.25	1.03	0.00				
22.40	1.25	1.03	0.00				
22.45	1.25	1.03	0.00				
22.50	1.25	1.03	0.00				
22.55	1.25	1.03	0.00				
22.60	1.25	1.03	0.00				
22.65	1.25	1.03	0.00				
22.70	1.25	1.03	0.00				
22.75	1.25	1.03	0.00				
22.80	1.25	1.03	0.00				
22.85	1.25	1.03	0.00				
22.90	1.25	1.03	0.00				
22.95	1.25	1.03	0.00				
23.00	1.25	1.03	0.00				
23.05	1.25	1.03	0.00				
23.10	1.25	1.03	0.00				
23.15	1.25	1.03	0.00				
23.20	1.25	1.03	0.00				
23.25	1.25	1.03	0.00				
23.30	1.25	1.03	0.00				
23.35	1.25	1.03	0.00				

Summary for Link P1A: P1A IMP WQU 121

Inflow Area = 0.340 ac,100.00% Impervious, Inflow Depth = 1.03" for WQ event
Inflow = 1.04 cfs @ 1.08 hrs, Volume= 0.029 af
Primary = 1.04 cfs @ 1.08 hrs, Volume= 0.029 af, Atten= 0%, Lag= 0.0 min
Routed to Link PPOI-1 : PPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link P1A: P1A IMP WQU 121



Hydrograph for Link P1A: P1A IMP WQU 121

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.00	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.00	0.00	0.00
0.10	0.00	0.00	0.00	2.70	0.00	0.00	0.00
0.15	0.00	0.00	0.00	2.75	0.00	0.00	0.00
0.20	0.00	0.00	0.00	2.80	0.00	0.00	0.00
0.25	0.00	0.00	0.00	2.85	0.00	0.00	0.00
0.30	0.00	0.00	0.00	2.90	0.00	0.00	0.00
0.35	0.00	0.00	0.00	2.95	0.00	0.00	0.00
0.40	0.02	0.00	0.02	3.00	0.00	0.00	0.00
0.45	0.03	0.00	0.03	3.05	0.00	0.00	0.00
0.50	0.04	0.00	0.04	3.10	0.00	0.00	0.00
0.55	0.06	0.00	0.06	3.15	0.00	0.00	0.00
0.60	0.07	0.00	0.07	3.20	0.00	0.00	0.00
0.65	0.08	0.00	0.08	3.25	0.00	0.00	0.00
0.70	0.08	0.00	0.08	3.30	0.00	0.00	0.00
0.75	0.09	0.00	0.09	3.35	0.00	0.00	0.00
0.80	0.16	0.00	0.16	3.40	0.00	0.00	0.00
0.85	0.19	0.00	0.19	3.45	0.00	0.00	0.00
0.90	0.32	0.00	0.32	3.50	0.00	0.00	0.00
0.95	0.68	0.00	0.68	3.55	0.00	0.00	0.00
1.00	0.99	0.00	0.99	3.60	0.00	0.00	0.00
1.05	**1.03**	0.00	**1.03**	3.65	0.00	0.00	0.00
1.10	**0.98**	0.00	**0.98**	3.70	0.00	0.00	0.00
1.15	0.43	0.00	0.43	3.75	0.00	0.00	0.00
1.20	0.31	0.00	0.31	3.80	0.00	0.00	0.00
1.25	0.24	0.00	0.24	3.85	0.00	0.00	0.00
1.30	0.15	0.00	0.15	3.90	0.00	0.00	0.00
1.35	0.14	0.00	0.14	3.95	0.00	0.00	0.00
1.40	0.13	0.00	0.13	4.00	0.00	0.00	0.00
1.45	0.13	0.00	0.13	4.05	0.00	0.00	0.00
1.50	0.13	0.00	0.13	4.10	0.00	0.00	0.00
1.55	0.11	0.00	0.11	4.15	0.00	0.00	0.00
1.60	0.10	0.00	0.10	4.20	0.00	0.00	0.00
1.65	0.10	0.00	0.10	4.25	0.00	0.00	0.00
1.70	0.10	0.00	0.10	4.30	0.00	0.00	0.00
1.75	0.10	0.00	0.10	4.35	0.00	0.00	0.00
1.80	0.04	0.00	0.04	4.40	0.00	0.00	0.00
1.85	0.03	0.00	0.03	4.45	0.00	0.00	0.00
1.90	0.03	0.00	0.03	4.50	0.00	0.00	0.00
1.95	0.03	0.00	0.03	4.55	0.00	0.00	0.00
2.00	0.03	0.00	0.03	4.60	0.00	0.00	0.00
2.05	0.00	0.00	0.00	4.65	0.00	0.00	0.00
2.10	0.00	0.00	0.00	4.70	0.00	0.00	0.00
2.15	0.00	0.00	0.00	4.75	0.00	0.00	0.00
2.20	0.00	0.00	0.00	4.80	0.00	0.00	0.00
2.25	0.00	0.00	0.00	4.85	0.00	0.00	0.00
2.30	0.00	0.00	0.00	4.90	0.00	0.00	0.00
2.35	0.00	0.00	0.00	4.95	0.00	0.00	0.00
2.40	0.00	0.00	0.00	5.00	0.00	0.00	0.00
2.45	0.00	0.00	0.00	5.05	0.00	0.00	0.00
2.50	0.00	0.00	0.00	5.10	0.00	0.00	0.00
2.55	0.00	0.00	0.00	5.15	0.00	0.00	0.00

Hydrograph for Link P1A: P1A IMP WQU 121 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.00	0.00	0.00	7.80	0.00	0.00	0.00
5.25	0.00	0.00	0.00	7.85	0.00	0.00	0.00
5.30	0.00	0.00	0.00	7.90	0.00	0.00	0.00
5.35	0.00	0.00	0.00	7.95	0.00	0.00	0.00
5.40	0.00	0.00	0.00	8.00	0.00	0.00	0.00
5.45	0.00	0.00	0.00	8.05	0.00	0.00	0.00
5.50	0.00	0.00	0.00	8.10	0.00	0.00	0.00
5.55	0.00	0.00	0.00	8.15	0.00	0.00	0.00
5.60	0.00	0.00	0.00	8.20	0.00	0.00	0.00
5.65	0.00	0.00	0.00	8.25	0.00	0.00	0.00
5.70	0.00	0.00	0.00	8.30	0.00	0.00	0.00
5.75	0.00	0.00	0.00	8.35	0.00	0.00	0.00
5.80	0.00	0.00	0.00	8.40	0.00	0.00	0.00
5.85	0.00	0.00	0.00	8.45	0.00	0.00	0.00
5.90	0.00	0.00	0.00	8.50	0.00	0.00	0.00
5.95	0.00	0.00	0.00	8.55	0.00	0.00	0.00
6.00	0.00	0.00	0.00	8.60	0.00	0.00	0.00
6.05	0.00	0.00	0.00	8.65	0.00	0.00	0.00
6.10	0.00	0.00	0.00	8.70	0.00	0.00	0.00
6.15	0.00	0.00	0.00	8.75	0.00	0.00	0.00
6.20	0.00	0.00	0.00	8.80	0.00	0.00	0.00
6.25	0.00	0.00	0.00	8.85	0.00	0.00	0.00
6.30	0.00	0.00	0.00	8.90	0.00	0.00	0.00
6.35	0.00	0.00	0.00	8.95	0.00	0.00	0.00
6.40	0.00	0.00	0.00	9.00	0.00	0.00	0.00
6.45	0.00	0.00	0.00	9.05	0.00	0.00	0.00
6.50	0.00	0.00	0.00	9.10	0.00	0.00	0.00
6.55	0.00	0.00	0.00	9.15	0.00	0.00	0.00
6.60	0.00	0.00	0.00	9.20	0.00	0.00	0.00
6.65	0.00	0.00	0.00	9.25	0.00	0.00	0.00
6.70	0.00	0.00	0.00	9.30	0.00	0.00	0.00
6.75	0.00	0.00	0.00	9.35	0.00	0.00	0.00
6.80	0.00	0.00	0.00	9.40	0.00	0.00	0.00
6.85	0.00	0.00	0.00	9.45	0.00	0.00	0.00
6.90	0.00	0.00	0.00	9.50	0.00	0.00	0.00
6.95	0.00	0.00	0.00	9.55	0.00	0.00	0.00
7.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00
7.05	0.00	0.00	0.00	9.65	0.00	0.00	0.00
7.10	0.00	0.00	0.00	9.70	0.00	0.00	0.00
7.15	0.00	0.00	0.00	9.75	0.00	0.00	0.00
7.20	0.00	0.00	0.00	9.80	0.00	0.00	0.00
7.25	0.00	0.00	0.00	9.85	0.00	0.00	0.00
7.30	0.00	0.00	0.00	9.90	0.00	0.00	0.00
7.35	0.00	0.00	0.00	9.95	0.00	0.00	0.00
7.40	0.00	0.00	0.00	10.00	0.00	0.00	0.00
7.45	0.00	0.00	0.00	10.05	0.00	0.00	0.00
7.50	0.00	0.00	0.00	10.10	0.00	0.00	0.00
7.55	0.00	0.00	0.00	10.15	0.00	0.00	0.00
7.60	0.00	0.00	0.00	10.20	0.00	0.00	0.00
7.65	0.00	0.00	0.00	10.25	0.00	0.00	0.00
7.70	0.00	0.00	0.00	10.30	0.00	0.00	0.00
7.75	0.00	0.00	0.00	10.35	0.00	0.00	0.00

Hydrograph for Link P1A: P1A IMP WQU 121 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.00	0.00	0.00	13.00	0.00	0.00	0.00
10.45	0.00	0.00	0.00	13.05	0.00	0.00	0.00
10.50	0.00	0.00	0.00	13.10	0.00	0.00	0.00
10.55	0.00	0.00	0.00	13.15	0.00	0.00	0.00
10.60	0.00	0.00	0.00	13.20	0.00	0.00	0.00
10.65	0.00	0.00	0.00	13.25	0.00	0.00	0.00
10.70	0.00	0.00	0.00	13.30	0.00	0.00	0.00
10.75	0.00	0.00	0.00	13.35	0.00	0.00	0.00
10.80	0.00	0.00	0.00	13.40	0.00	0.00	0.00
10.85	0.00	0.00	0.00	13.45	0.00	0.00	0.00
10.90	0.00	0.00	0.00	13.50	0.00	0.00	0.00
10.95	0.00	0.00	0.00	13.55	0.00	0.00	0.00
11.00	0.00	0.00	0.00	13.60	0.00	0.00	0.00
11.05	0.00	0.00	0.00	13.65	0.00	0.00	0.00
11.10	0.00	0.00	0.00	13.70	0.00	0.00	0.00
11.15	0.00	0.00	0.00	13.75	0.00	0.00	0.00
11.20	0.00	0.00	0.00	13.80	0.00	0.00	0.00
11.25	0.00	0.00	0.00	13.85	0.00	0.00	0.00
11.30	0.00	0.00	0.00	13.90	0.00	0.00	0.00
11.35	0.00	0.00	0.00	13.95	0.00	0.00	0.00
11.40	0.00	0.00	0.00	14.00	0.00	0.00	0.00
11.45	0.00	0.00	0.00	14.05	0.00	0.00	0.00
11.50	0.00	0.00	0.00	14.10	0.00	0.00	0.00
11.55	0.00	0.00	0.00	14.15	0.00	0.00	0.00
11.60	0.00	0.00	0.00	14.20	0.00	0.00	0.00
11.65	0.00	0.00	0.00	14.25	0.00	0.00	0.00
11.70	0.00	0.00	0.00	14.30	0.00	0.00	0.00
11.75	0.00	0.00	0.00	14.35	0.00	0.00	0.00
11.80	0.00	0.00	0.00	14.40	0.00	0.00	0.00
11.85	0.00	0.00	0.00	14.45	0.00	0.00	0.00
11.90	0.00	0.00	0.00	14.50	0.00	0.00	0.00
11.95	0.00	0.00	0.00	14.55	0.00	0.00	0.00
12.00	0.00	0.00	0.00	14.60	0.00	0.00	0.00
12.05	0.00	0.00	0.00	14.65	0.00	0.00	0.00
12.10	0.00	0.00	0.00	14.70	0.00	0.00	0.00
12.15	0.00	0.00	0.00	14.75	0.00	0.00	0.00
12.20	0.00	0.00	0.00	14.80	0.00	0.00	0.00
12.25	0.00	0.00	0.00	14.85	0.00	0.00	0.00
12.30	0.00	0.00	0.00	14.90	0.00	0.00	0.00
12.35	0.00	0.00	0.00	14.95	0.00	0.00	0.00
12.40	0.00	0.00	0.00	15.00	0.00	0.00	0.00
12.45	0.00	0.00	0.00	15.05	0.00	0.00	0.00
12.50	0.00	0.00	0.00	15.10	0.00	0.00	0.00
12.55	0.00	0.00	0.00	15.15	0.00	0.00	0.00
12.60	0.00	0.00	0.00	15.20	0.00	0.00	0.00
12.65	0.00	0.00	0.00	15.25	0.00	0.00	0.00
12.70	0.00	0.00	0.00	15.30	0.00	0.00	0.00
12.75	0.00	0.00	0.00	15.35	0.00	0.00	0.00
12.80	0.00	0.00	0.00	15.40	0.00	0.00	0.00
12.85	0.00	0.00	0.00	15.45	0.00	0.00	0.00
12.90	0.00	0.00	0.00	15.50	0.00	0.00	0.00
12.95	0.00	0.00	0.00	15.55	0.00	0.00	0.00

Hydrograph for Link P1A: P1A IMP WQU 121 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.00	0.00	0.00	18.20	0.00	0.00	0.00
15.65	0.00	0.00	0.00	18.25	0.00	0.00	0.00
15.70	0.00	0.00	0.00	18.30	0.00	0.00	0.00
15.75	0.00	0.00	0.00	18.35	0.00	0.00	0.00
15.80	0.00	0.00	0.00	18.40	0.00	0.00	0.00
15.85	0.00	0.00	0.00	18.45	0.00	0.00	0.00
15.90	0.00	0.00	0.00	18.50	0.00	0.00	0.00
15.95	0.00	0.00	0.00	18.55	0.00	0.00	0.00
16.00	0.00	0.00	0.00	18.60	0.00	0.00	0.00
16.05	0.00	0.00	0.00	18.65	0.00	0.00	0.00
16.10	0.00	0.00	0.00	18.70	0.00	0.00	0.00
16.15	0.00	0.00	0.00	18.75	0.00	0.00	0.00
16.20	0.00	0.00	0.00	18.80	0.00	0.00	0.00
16.25	0.00	0.00	0.00	18.85	0.00	0.00	0.00
16.30	0.00	0.00	0.00	18.90	0.00	0.00	0.00
16.35	0.00	0.00	0.00	18.95	0.00	0.00	0.00
16.40	0.00	0.00	0.00	19.00	0.00	0.00	0.00
16.45	0.00	0.00	0.00	19.05	0.00	0.00	0.00
16.50	0.00	0.00	0.00	19.10	0.00	0.00	0.00
16.55	0.00	0.00	0.00	19.15	0.00	0.00	0.00
16.60	0.00	0.00	0.00	19.20	0.00	0.00	0.00
16.65	0.00	0.00	0.00	19.25	0.00	0.00	0.00
16.70	0.00	0.00	0.00	19.30	0.00	0.00	0.00
16.75	0.00	0.00	0.00	19.35	0.00	0.00	0.00
16.80	0.00	0.00	0.00	19.40	0.00	0.00	0.00
16.85	0.00	0.00	0.00	19.45	0.00	0.00	0.00
16.90	0.00	0.00	0.00	19.50	0.00	0.00	0.00
16.95	0.00	0.00	0.00	19.55	0.00	0.00	0.00
17.00	0.00	0.00	0.00	19.60	0.00	0.00	0.00
17.05	0.00	0.00	0.00	19.65	0.00	0.00	0.00
17.10	0.00	0.00	0.00	19.70	0.00	0.00	0.00
17.15	0.00	0.00	0.00	19.75	0.00	0.00	0.00
17.20	0.00	0.00	0.00	19.80	0.00	0.00	0.00
17.25	0.00	0.00	0.00	19.85	0.00	0.00	0.00
17.30	0.00	0.00	0.00	19.90	0.00	0.00	0.00
17.35	0.00	0.00	0.00	19.95	0.00	0.00	0.00
17.40	0.00	0.00	0.00	20.00	0.00	0.00	0.00
17.45	0.00	0.00	0.00	20.05	0.00	0.00	0.00
17.50	0.00	0.00	0.00	20.10	0.00	0.00	0.00
17.55	0.00	0.00	0.00	20.15	0.00	0.00	0.00
17.60	0.00	0.00	0.00	20.20	0.00	0.00	0.00
17.65	0.00	0.00	0.00	20.25	0.00	0.00	0.00
17.70	0.00	0.00	0.00	20.30	0.00	0.00	0.00
17.75	0.00	0.00	0.00	20.35	0.00	0.00	0.00
17.80	0.00	0.00	0.00	20.40	0.00	0.00	0.00
17.85	0.00	0.00	0.00	20.45	0.00	0.00	0.00
17.90	0.00	0.00	0.00	20.50	0.00	0.00	0.00
17.95	0.00	0.00	0.00	20.55	0.00	0.00	0.00
18.00	0.00	0.00	0.00	20.60	0.00	0.00	0.00
18.05	0.00	0.00	0.00	20.65	0.00	0.00	0.00
18.10	0.00	0.00	0.00	20.70	0.00	0.00	0.00
18.15	0.00	0.00	0.00	20.75	0.00	0.00	0.00

Hydrograph for Link P1A: P1A IMP WQU 121 (continued)

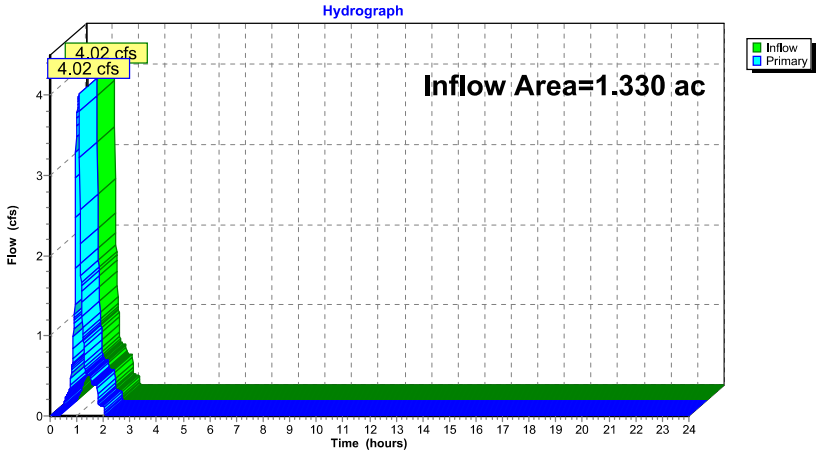
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.00	0.00	0.00	23.40	0.00	0.00	0.00
20.85	0.00	0.00	0.00	23.45	0.00	0.00	0.00
20.90	0.00	0.00	0.00	23.50	0.00	0.00	0.00
20.95	0.00	0.00	0.00	23.55	0.00	0.00	0.00
21.00	0.00	0.00	0.00	23.60	0.00	0.00	0.00
21.05	0.00	0.00	0.00	23.65	0.00	0.00	0.00
21.10	0.00	0.00	0.00	23.70	0.00	0.00	0.00
21.15	0.00	0.00	0.00	23.75	0.00	0.00	0.00
21.20	0.00	0.00	0.00	23.80	0.00	0.00	0.00
21.25	0.00	0.00	0.00	23.85	0.00	0.00	0.00
21.30	0.00	0.00	0.00	23.90	0.00	0.00	0.00
21.35	0.00	0.00	0.00	23.95	0.00	0.00	0.00
21.40	0.00	0.00	0.00	24.00	0.00	0.00	0.00
21.45	0.00	0.00	0.00				
21.50	0.00	0.00	0.00				
21.55	0.00	0.00	0.00				
21.60	0.00	0.00	0.00				
21.65	0.00	0.00	0.00				
21.70	0.00	0.00	0.00				
21.75	0.00	0.00	0.00				
21.80	0.00	0.00	0.00				
21.85	0.00	0.00	0.00				
21.90	0.00	0.00	0.00				
21.95	0.00	0.00	0.00				
22.00	0.00	0.00	0.00				
22.05	0.00	0.00	0.00				
22.10	0.00	0.00	0.00				
22.15	0.00	0.00	0.00				
22.20	0.00	0.00	0.00				
22.25	0.00	0.00	0.00				
22.30	0.00	0.00	0.00				
22.35	0.00	0.00	0.00				
22.40	0.00	0.00	0.00				
22.45	0.00	0.00	0.00				
22.50	0.00	0.00	0.00				
22.55	0.00	0.00	0.00				
22.60	0.00	0.00	0.00				
22.65	0.00	0.00	0.00				
22.70	0.00	0.00	0.00				
22.75	0.00	0.00	0.00				
22.80	0.00	0.00	0.00				
22.85	0.00	0.00	0.00				
22.90	0.00	0.00	0.00				
22.95	0.00	0.00	0.00				
23.00	0.00	0.00	0.00				
23.05	0.00	0.00	0.00				
23.10	0.00	0.00	0.00				
23.15	0.00	0.00	0.00				
23.20	0.00	0.00	0.00				
23.25	0.00	0.00	0.00				
23.30	0.00	0.00	0.00				
23.35	0.00	0.00	0.00				

Summary for Link P1B: P1B IMP WQU 209

Inflow Area = 1.330 ac, 87.22% Impervious, Inflow Depth = 1.01" for WQ event
Inflow = 4.02 cfs @ 1.08 hrs, Volume= 0.112 af
Primary = 4.02 cfs @ 1.08 hrs, Volume= 0.112 af, Atten= 0%, Lag= 0.0 min
Routed to Link PPOI-1 : PPOI-1

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link P1B: P1B IMP WQU 209



Hydrograph for Link P1B: P1B IMP WQU 209

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.00	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.00	0.00	0.00
0.10	0.00	0.00	0.00	2.70	0.00	0.00	0.00
0.15	0.00	0.00	0.00	2.75	0.00	0.00	0.00
0.20	0.00	0.00	0.00	2.80	0.00	0.00	0.00
0.25	0.00	0.00	0.00	2.85	0.00	0.00	0.00
0.30	0.00	0.00	0.00	2.90	0.00	0.00	0.00
0.35	0.02	0.00	0.02	2.95	0.00	0.00	0.00
0.40	0.06	0.00	0.06	3.00	0.00	0.00	0.00
0.45	0.09	0.00	0.09	3.05	0.00	0.00	0.00
0.50	0.12	0.00	0.12	3.10	0.00	0.00	0.00
0.55	0.20	0.00	0.20	3.15	0.00	0.00	0.00
0.60	0.24	0.00	0.24	3.20	0.00	0.00	0.00
0.65	0.27	0.00	0.27	3.25	0.00	0.00	0.00
0.70	0.31	0.00	0.31	3.30	0.00	0.00	0.00
0.75	0.34	0.00	0.34	3.35	0.00	0.00	0.00
0.80	0.58	0.00	0.58	3.40	0.00	0.00	0.00
0.85	0.72	0.00	0.72	3.45	0.00	0.00	0.00
0.90	1.20	0.00	1.20	3.50	0.00	0.00	0.00
0.95	2.47	0.00	2.47	3.55	0.00	0.00	0.00
1.00	3.71	0.00	3.71	3.60	0.00	0.00	0.00
1.05	**3.94**	0.00	**3.94**	3.65	0.00	0.00	0.00
1.10	**3.79**	0.00	**3.79**	3.70	0.00	0.00	0.00
1.15	1.75	0.00	1.75	3.75	0.00	0.00	0.00
1.20	1.24	0.00	1.24	3.80	0.00	0.00	0.00
1.25	0.93	0.00	0.93	3.85	0.00	0.00	0.00
1.30	0.61	0.00	0.61	3.90	0.00	0.00	0.00
1.35	0.53	0.00	0.53	3.95	0.00	0.00	0.00
1.40	0.52	0.00	0.52	4.00	0.00	0.00	0.00
1.45	0.51	0.00	0.51	4.05	0.00	0.00	0.00
1.50	0.51	0.00	0.51	4.10	0.00	0.00	0.00
1.55	0.42	0.00	0.42	4.15	0.00	0.00	0.00
1.60	0.39	0.00	0.39	4.20	0.00	0.00	0.00
1.65	0.39	0.00	0.39	4.25	0.00	0.00	0.00
1.70	0.39	0.00	0.39	4.30	0.00	0.00	0.00
1.75	0.39	0.00	0.39	4.35	0.00	0.00	0.00
1.80	0.18	0.00	0.18	4.40	0.00	0.00	0.00
1.85	0.14	0.00	0.14	4.45	0.00	0.00	0.00
1.90	0.13	0.00	0.13	4.50	0.00	0.00	0.00
1.95	0.13	0.00	0.13	4.55	0.00	0.00	0.00
2.00	0.13	0.00	0.13	4.60	0.00	0.00	0.00
2.05	0.03	0.00	0.03	4.65	0.00	0.00	0.00
2.10	0.00	0.00	0.00	4.70	0.00	0.00	0.00
2.15	0.00	0.00	0.00	4.75	0.00	0.00	0.00
2.20	0.00	0.00	0.00	4.80	0.00	0.00	0.00
2.25	0.00	0.00	0.00	4.85	0.00	0.00	0.00
2.30	0.00	0.00	0.00	4.90	0.00	0.00	0.00
2.35	0.00	0.00	0.00	4.95	0.00	0.00	0.00
2.40	0.00	0.00	0.00	5.00	0.00	0.00	0.00
2.45	0.00	0.00	0.00	5.05	0.00	0.00	0.00
2.50	0.00	0.00	0.00	5.10	0.00	0.00	0.00
2.55	0.00	0.00	0.00	5.15	0.00	0.00	0.00

Hydrograph for Link P1B: P1B IMP WQU 209 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.00	0.00	0.00	7.80	0.00	0.00	0.00
5.25	0.00	0.00	0.00	7.85	0.00	0.00	0.00
5.30	0.00	0.00	0.00	7.90	0.00	0.00	0.00
5.35	0.00	0.00	0.00	7.95	0.00	0.00	0.00
5.40	0.00	0.00	0.00	8.00	0.00	0.00	0.00
5.45	0.00	0.00	0.00	8.05	0.00	0.00	0.00
5.50	0.00	0.00	0.00	8.10	0.00	0.00	0.00
5.55	0.00	0.00	0.00	8.15	0.00	0.00	0.00
5.60	0.00	0.00	0.00	8.20	0.00	0.00	0.00
5.65	0.00	0.00	0.00	8.25	0.00	0.00	0.00
5.70	0.00	0.00	0.00	8.30	0.00	0.00	0.00
5.75	0.00	0.00	0.00	8.35	0.00	0.00	0.00
5.80	0.00	0.00	0.00	8.40	0.00	0.00	0.00
5.85	0.00	0.00	0.00	8.45	0.00	0.00	0.00
5.90	0.00	0.00	0.00	8.50	0.00	0.00	0.00
5.95	0.00	0.00	0.00	8.55	0.00	0.00	0.00
6.00	0.00	0.00	0.00	8.60	0.00	0.00	0.00
6.05	0.00	0.00	0.00	8.65	0.00	0.00	0.00
6.10	0.00	0.00	0.00	8.70	0.00	0.00	0.00
6.15	0.00	0.00	0.00	8.75	0.00	0.00	0.00
6.20	0.00	0.00	0.00	8.80	0.00	0.00	0.00
6.25	0.00	0.00	0.00	8.85	0.00	0.00	0.00
6.30	0.00	0.00	0.00	8.90	0.00	0.00	0.00
6.35	0.00	0.00	0.00	8.95	0.00	0.00	0.00
6.40	0.00	0.00	0.00	9.00	0.00	0.00	0.00
6.45	0.00	0.00	0.00	9.05	0.00	0.00	0.00
6.50	0.00	0.00	0.00	9.10	0.00	0.00	0.00
6.55	0.00	0.00	0.00	9.15	0.00	0.00	0.00
6.60	0.00	0.00	0.00	9.20	0.00	0.00	0.00
6.65	0.00	0.00	0.00	9.25	0.00	0.00	0.00
6.70	0.00	0.00	0.00	9.30	0.00	0.00	0.00
6.75	0.00	0.00	0.00	9.35	0.00	0.00	0.00
6.80	0.00	0.00	0.00	9.40	0.00	0.00	0.00
6.85	0.00	0.00	0.00	9.45	0.00	0.00	0.00
6.90	0.00	0.00	0.00	9.50	0.00	0.00	0.00
6.95	0.00	0.00	0.00	9.55	0.00	0.00	0.00
7.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00
7.05	0.00	0.00	0.00	9.65	0.00	0.00	0.00
7.10	0.00	0.00	0.00	9.70	0.00	0.00	0.00
7.15	0.00	0.00	0.00	9.75	0.00	0.00	0.00
7.20	0.00	0.00	0.00	9.80	0.00	0.00	0.00
7.25	0.00	0.00	0.00	9.85	0.00	0.00	0.00
7.30	0.00	0.00	0.00	9.90	0.00	0.00	0.00
7.35	0.00	0.00	0.00	9.95	0.00	0.00	0.00
7.40	0.00	0.00	0.00	10.00	0.00	0.00	0.00
7.45	0.00	0.00	0.00	10.05	0.00	0.00	0.00
7.50	0.00	0.00	0.00	10.10	0.00	0.00	0.00
7.55	0.00	0.00	0.00	10.15	0.00	0.00	0.00
7.60	0.00	0.00	0.00	10.20	0.00	0.00	0.00
7.65	0.00	0.00	0.00	10.25	0.00	0.00	0.00
7.70	0.00	0.00	0.00	10.30	0.00	0.00	0.00
7.75	0.00	0.00	0.00	10.35	0.00	0.00	0.00

Hydrograph for Link P1B: P1B IMP WQU 209 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.00	0.00	0.00	13.00	0.00	0.00	0.00
10.45	0.00	0.00	0.00	13.05	0.00	0.00	0.00
10.50	0.00	0.00	0.00	13.10	0.00	0.00	0.00
10.55	0.00	0.00	0.00	13.15	0.00	0.00	0.00
10.60	0.00	0.00	0.00	13.20	0.00	0.00	0.00
10.65	0.00	0.00	0.00	13.25	0.00	0.00	0.00
10.70	0.00	0.00	0.00	13.30	0.00	0.00	0.00
10.75	0.00	0.00	0.00	13.35	0.00	0.00	0.00
10.80	0.00	0.00	0.00	13.40	0.00	0.00	0.00
10.85	0.00	0.00	0.00	13.45	0.00	0.00	0.00
10.90	0.00	0.00	0.00	13.50	0.00	0.00	0.00
10.95	0.00	0.00	0.00	13.55	0.00	0.00	0.00
11.00	0.00	0.00	0.00	13.60	0.00	0.00	0.00
11.05	0.00	0.00	0.00	13.65	0.00	0.00	0.00
11.10	0.00	0.00	0.00	13.70	0.00	0.00	0.00
11.15	0.00	0.00	0.00	13.75	0.00	0.00	0.00
11.20	0.00	0.00	0.00	13.80	0.00	0.00	0.00
11.25	0.00	0.00	0.00	13.85	0.00	0.00	0.00
11.30	0.00	0.00	0.00	13.90	0.00	0.00	0.00
11.35	0.00	0.00	0.00	13.95	0.00	0.00	0.00
11.40	0.00	0.00	0.00	14.00	0.00	0.00	0.00
11.45	0.00	0.00	0.00	14.05	0.00	0.00	0.00
11.50	0.00	0.00	0.00	14.10	0.00	0.00	0.00
11.55	0.00	0.00	0.00	14.15	0.00	0.00	0.00
11.60	0.00	0.00	0.00	14.20	0.00	0.00	0.00
11.65	0.00	0.00	0.00	14.25	0.00	0.00	0.00
11.70	0.00	0.00	0.00	14.30	0.00	0.00	0.00
11.75	0.00	0.00	0.00	14.35	0.00	0.00	0.00
11.80	0.00	0.00	0.00	14.40	0.00	0.00	0.00
11.85	0.00	0.00	0.00	14.45	0.00	0.00	0.00
11.90	0.00	0.00	0.00	14.50	0.00	0.00	0.00
11.95	0.00	0.00	0.00	14.55	0.00	0.00	0.00
12.00	0.00	0.00	0.00	14.60	0.00	0.00	0.00
12.05	0.00	0.00	0.00	14.65	0.00	0.00	0.00
12.10	0.00	0.00	0.00	14.70	0.00	0.00	0.00
12.15	0.00	0.00	0.00	14.75	0.00	0.00	0.00
12.20	0.00	0.00	0.00	14.80	0.00	0.00	0.00
12.25	0.00	0.00	0.00	14.85	0.00	0.00	0.00
12.30	0.00	0.00	0.00	14.90	0.00	0.00	0.00
12.35	0.00	0.00	0.00	14.95	0.00	0.00	0.00
12.40	0.00	0.00	0.00	15.00	0.00	0.00	0.00
12.45	0.00	0.00	0.00	15.05	0.00	0.00	0.00
12.50	0.00	0.00	0.00	15.10	0.00	0.00	0.00
12.55	0.00	0.00	0.00	15.15	0.00	0.00	0.00
12.60	0.00	0.00	0.00	15.20	0.00	0.00	0.00
12.65	0.00	0.00	0.00	15.25	0.00	0.00	0.00
12.70	0.00	0.00	0.00	15.30	0.00	0.00	0.00
12.75	0.00	0.00	0.00	15.35	0.00	0.00	0.00
12.80	0.00	0.00	0.00	15.40	0.00	0.00	0.00
12.85	0.00	0.00	0.00	15.45	0.00	0.00	0.00
12.90	0.00	0.00	0.00	15.50	0.00	0.00	0.00
12.95	0.00	0.00	0.00	15.55	0.00	0.00	0.00

Hydrograph for Link P1B: P1B IMP WQU 209 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.00	0.00	0.00	18.20	0.00	0.00	0.00
15.65	0.00	0.00	0.00	18.25	0.00	0.00	0.00
15.70	0.00	0.00	0.00	18.30	0.00	0.00	0.00
15.75	0.00	0.00	0.00	18.35	0.00	0.00	0.00
15.80	0.00	0.00	0.00	18.40	0.00	0.00	0.00
15.85	0.00	0.00	0.00	18.45	0.00	0.00	0.00
15.90	0.00	0.00	0.00	18.50	0.00	0.00	0.00
15.95	0.00	0.00	0.00	18.55	0.00	0.00	0.00
16.00	0.00	0.00	0.00	18.60	0.00	0.00	0.00
16.05	0.00	0.00	0.00	18.65	0.00	0.00	0.00
16.10	0.00	0.00	0.00	18.70	0.00	0.00	0.00
16.15	0.00	0.00	0.00	18.75	0.00	0.00	0.00
16.20	0.00	0.00	0.00	18.80	0.00	0.00	0.00
16.25	0.00	0.00	0.00	18.85	0.00	0.00	0.00
16.30	0.00	0.00	0.00	18.90	0.00	0.00	0.00
16.35	0.00	0.00	0.00	18.95	0.00	0.00	0.00
16.40	0.00	0.00	0.00	19.00	0.00	0.00	0.00
16.45	0.00	0.00	0.00	19.05	0.00	0.00	0.00
16.50	0.00	0.00	0.00	19.10	0.00	0.00	0.00
16.55	0.00	0.00	0.00	19.15	0.00	0.00	0.00
16.60	0.00	0.00	0.00	19.20	0.00	0.00	0.00
16.65	0.00	0.00	0.00	19.25	0.00	0.00	0.00
16.70	0.00	0.00	0.00	19.30	0.00	0.00	0.00
16.75	0.00	0.00	0.00	19.35	0.00	0.00	0.00
16.80	0.00	0.00	0.00	19.40	0.00	0.00	0.00
16.85	0.00	0.00	0.00	19.45	0.00	0.00	0.00
16.90	0.00	0.00	0.00	19.50	0.00	0.00	0.00
16.95	0.00	0.00	0.00	19.55	0.00	0.00	0.00
17.00	0.00	0.00	0.00	19.60	0.00	0.00	0.00
17.05	0.00	0.00	0.00	19.65	0.00	0.00	0.00
17.10	0.00	0.00	0.00	19.70	0.00	0.00	0.00
17.15	0.00	0.00	0.00	19.75	0.00	0.00	0.00
17.20	0.00	0.00	0.00	19.80	0.00	0.00	0.00
17.25	0.00	0.00	0.00	19.85	0.00	0.00	0.00
17.30	0.00	0.00	0.00	19.90	0.00	0.00	0.00
17.35	0.00	0.00	0.00	19.95	0.00	0.00	0.00
17.40	0.00	0.00	0.00	20.00	0.00	0.00	0.00
17.45	0.00	0.00	0.00	20.05	0.00	0.00	0.00
17.50	0.00	0.00	0.00	20.10	0.00	0.00	0.00
17.55	0.00	0.00	0.00	20.15	0.00	0.00	0.00
17.60	0.00	0.00	0.00	20.20	0.00	0.00	0.00
17.65	0.00	0.00	0.00	20.25	0.00	0.00	0.00
17.70	0.00	0.00	0.00	20.30	0.00	0.00	0.00
17.75	0.00	0.00	0.00	20.35	0.00	0.00	0.00
17.80	0.00	0.00	0.00	20.40	0.00	0.00	0.00
17.85	0.00	0.00	0.00	20.45	0.00	0.00	0.00
17.90	0.00	0.00	0.00	20.50	0.00	0.00	0.00
17.95	0.00	0.00	0.00	20.55	0.00	0.00	0.00
18.00	0.00	0.00	0.00	20.60	0.00	0.00	0.00
18.05	0.00	0.00	0.00	20.65	0.00	0.00	0.00
18.10	0.00	0.00	0.00	20.70	0.00	0.00	0.00
18.15	0.00	0.00	0.00	20.75	0.00	0.00	0.00

Hydrograph for Link P1B: P1B IMP WQU 209 (continued)

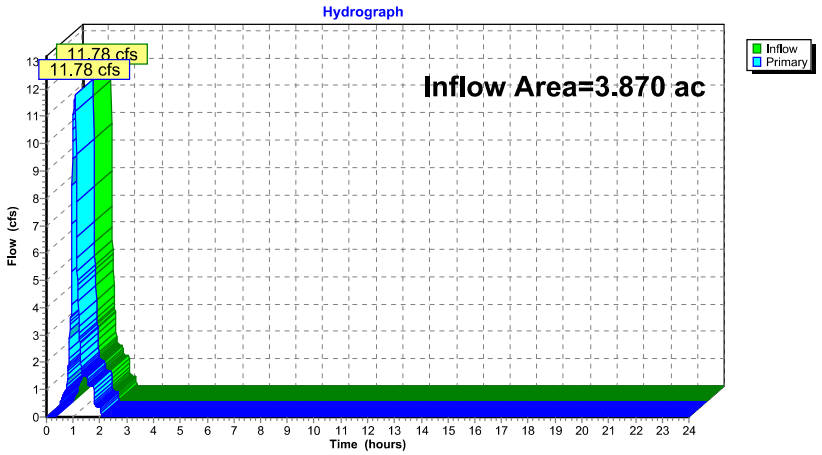
Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.00	0.00	0.00	23.40	0.00	0.00	0.00
20.85	0.00	0.00	0.00	23.45	0.00	0.00	0.00
20.90	0.00	0.00	0.00	23.50	0.00	0.00	0.00
20.95	0.00	0.00	0.00	23.55	0.00	0.00	0.00
21.00	0.00	0.00	0.00	23.60	0.00	0.00	0.00
21.05	0.00	0.00	0.00	23.65	0.00	0.00	0.00
21.10	0.00	0.00	0.00	23.70	0.00	0.00	0.00
21.15	0.00	0.00	0.00	23.75	0.00	0.00	0.00
21.20	0.00	0.00	0.00	23.80	0.00	0.00	0.00
21.25	0.00	0.00	0.00	23.85	0.00	0.00	0.00
21.30	0.00	0.00	0.00	23.90	0.00	0.00	0.00
21.35	0.00	0.00	0.00	23.95	0.00	0.00	0.00
21.40	0.00	0.00	0.00	24.00	0.00	0.00	0.00
21.45	0.00	0.00	0.00				
21.50	0.00	0.00	0.00				
21.55	0.00	0.00	0.00				
21.60	0.00	0.00	0.00				
21.65	0.00	0.00	0.00				
21.70	0.00	0.00	0.00				
21.75	0.00	0.00	0.00				
21.80	0.00	0.00	0.00				
21.85	0.00	0.00	0.00				
21.90	0.00	0.00	0.00				
21.95	0.00	0.00	0.00				
22.00	0.00	0.00	0.00				
22.05	0.00	0.00	0.00				
22.10	0.00	0.00	0.00				
22.15	0.00	0.00	0.00				
22.20	0.00	0.00	0.00				
22.25	0.00	0.00	0.00				
22.30	0.00	0.00	0.00				
22.35	0.00	0.00	0.00				
22.40	0.00	0.00	0.00				
22.45	0.00	0.00	0.00				
22.50	0.00	0.00	0.00				
22.55	0.00	0.00	0.00				
22.60	0.00	0.00	0.00				
22.65	0.00	0.00	0.00				
22.70	0.00	0.00	0.00				
22.75	0.00	0.00	0.00				
22.80	0.00	0.00	0.00				
22.85	0.00	0.00	0.00				
22.90	0.00	0.00	0.00				
22.95	0.00	0.00	0.00				
23.00	0.00	0.00	0.00				
23.05	0.00	0.00	0.00				
23.10	0.00	0.00	0.00				
23.15	0.00	0.00	0.00				
23.20	0.00	0.00	0.00				
23.25	0.00	0.00	0.00				
23.30	0.00	0.00	0.00				
23.35	0.00	0.00	0.00				

Summary for Link PPOI-1: PPOI-1

Inflow Area = 3.870 ac, 95.61% Impervious, Inflow Depth = 1.03" for WQ event
Inflow = 11.78 cfs @ 1.08 hrs, Volume= 0.331 af
Primary = 11.78 cfs @ 1.08 hrs, Volume= 0.331 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.01 hrs

Link PPOI-1: PPOI-1



Hydrograph for Link PPOI-1: PPOI-1

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
0.00	0.00	**0.00**	0.00	2.60	0.00	0.00	0.00
0.05	0.00	0.00	0.00	2.65	0.00	0.00	0.00
0.10	0.00	0.00	0.00	2.70	0.00	0.00	0.00
0.15	0.00	0.00	0.00	2.75	0.00	0.00	0.00
0.20	0.00	0.00	0.00	2.80	0.00	0.00	0.00
0.25	0.00	0.00	0.00	2.85	0.00	0.00	0.00
0.30	0.00	0.00	0.00	2.90	0.00	0.00	0.00
0.35	0.04	0.00	0.04	2.95	0.00	0.00	0.00
0.40	0.17	0.00	0.17	3.00	0.00	0.00	0.00
0.45	0.28	0.00	0.28	3.05	0.00	0.00	0.00
0.50	0.38	0.00	0.38	3.10	0.00	0.00	0.00
0.55	0.59	0.00	0.59	3.15	0.00	0.00	0.00
0.60	0.74	0.00	0.74	3.20	0.00	0.00	0.00
0.65	0.84	0.00	0.84	3.25	0.00	0.00	0.00
0.70	0.93	0.00	0.93	3.30	0.00	0.00	0.00
0.75	1.02	0.00	1.02	3.35	0.00	0.00	0.00
0.80	1.69	0.00	1.69	3.40	0.00	0.00	0.00
0.85	2.13	0.00	2.13	3.45	0.00	0.00	0.00
0.90	3.52	0.00	3.52	3.50	0.00	0.00	0.00
0.95	7.04	0.00	7.04	3.55	0.00	0.00	0.00
1.00	10.84	0.00	10.84	3.60	0.00	0.00	0.00
1.05	**11.58**	0.00	**11.58**	3.65	0.00	0.00	0.00
1.10	**11.18**	0.00	**11.18**	3.70	0.00	0.00	0.00
1.15	5.31	0.00	5.31	3.75	0.00	0.00	0.00
1.20	3.72	0.00	3.72	3.80	0.00	0.00	0.00
1.25	2.75	0.00	2.75	3.85	0.00	0.00	0.00
1.30	1.82	0.00	1.82	3.90	0.00	0.00	0.00
1.35	1.57	0.00	1.57	3.95	0.00	0.00	0.00
1.40	1.51	0.00	1.51	4.00	0.00	0.00	0.00
1.45	1.50	0.00	1.50	4.05	0.00	0.00	0.00
1.50	1.50	0.00	1.50	4.10	0.00	0.00	0.00
1.55	1.23	0.00	1.23	4.15	0.00	0.00	0.00
1.60	1.15	0.00	1.15	4.20	0.00	0.00	0.00
1.65	1.14	0.00	1.14	4.25	0.00	0.00	0.00
1.70	1.14	0.00	1.14	4.30	0.00	0.00	0.00
1.75	1.14	0.00	1.14	4.35	0.00	0.00	0.00
1.80	0.57	0.00	0.57	4.40	0.00	0.00	0.00
1.85	0.40	0.00	0.40	4.45	0.00	0.00	0.00
1.90	0.38	0.00	0.38	4.50	0.00	0.00	0.00
1.95	0.38	0.00	0.38	4.55	0.00	0.00	0.00
2.00	0.38	0.00	0.38	4.60	0.00	0.00	0.00
2.05	0.09	0.00	0.09	4.65	0.00	0.00	0.00
2.10	0.01	0.00	0.01	4.70	0.00	0.00	0.00
2.15	0.00	0.00	0.00	4.75	0.00	0.00	0.00
2.20	0.00	0.00	0.00	4.80	0.00	0.00	0.00
2.25	0.00	0.00	0.00	4.85	0.00	0.00	0.00
2.30	0.00	0.00	0.00	4.90	0.00	0.00	0.00
2.35	0.00	0.00	0.00	4.95	0.00	0.00	0.00
2.40	0.00	0.00	0.00	5.00	0.00	0.00	0.00
2.45	0.00	0.00	0.00	5.05	0.00	0.00	0.00
2.50	0.00	0.00	0.00	5.10	0.00	0.00	0.00
2.55	0.00	0.00	0.00	5.15	0.00	0.00	0.00

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
5.20	0.00	0.00	0.00	7.80	0.00	0.00	0.00
5.25	0.00	0.00	0.00	7.85	0.00	0.00	0.00
5.30	0.00	0.00	0.00	7.90	0.00	0.00	0.00
5.35	0.00	0.00	0.00	7.95	0.00	0.00	0.00
5.40	0.00	0.00	0.00	8.00	0.00	0.00	0.00
5.45	0.00	0.00	0.00	8.05	0.00	0.00	0.00
5.50	0.00	0.00	0.00	8.10	0.00	0.00	0.00
5.55	0.00	0.00	0.00	8.15	0.00	0.00	0.00
5.60	0.00	0.00	0.00	8.20	0.00	0.00	0.00
5.65	0.00	0.00	0.00	8.25	0.00	0.00	0.00
5.70	0.00	0.00	0.00	8.30	0.00	0.00	0.00
5.75	0.00	0.00	0.00	8.35	0.00	0.00	0.00
5.80	0.00	0.00	0.00	8.40	0.00	0.00	0.00
5.85	0.00	0.00	0.00	8.45	0.00	0.00	0.00
5.90	0.00	0.00	0.00	8.50	0.00	0.00	0.00
5.95	0.00	0.00	0.00	8.55	0.00	0.00	0.00
6.00	0.00	0.00	0.00	8.60	0.00	0.00	0.00
6.05	0.00	0.00	0.00	8.65	0.00	0.00	0.00
6.10	0.00	0.00	0.00	8.70	0.00	0.00	0.00
6.15	0.00	0.00	0.00	8.75	0.00	0.00	0.00
6.20	0.00	0.00	0.00	8.80	0.00	0.00	0.00
6.25	0.00	0.00	0.00	8.85	0.00	0.00	0.00
6.30	0.00	0.00	0.00	8.90	0.00	0.00	0.00
6.35	0.00	0.00	0.00	8.95	0.00	0.00	0.00
6.40	0.00	0.00	0.00	9.00	0.00	0.00	0.00
6.45	0.00	0.00	0.00	9.05	0.00	0.00	0.00
6.50	0.00	0.00	0.00	9.10	0.00	0.00	0.00
6.55	0.00	0.00	0.00	9.15	0.00	0.00	0.00
6.60	0.00	0.00	0.00	9.20	0.00	0.00	0.00
6.65	0.00	0.00	0.00	9.25	0.00	0.00	0.00
6.70	0.00	0.00	0.00	9.30	0.00	0.00	0.00
6.75	0.00	0.00	0.00	9.35	0.00	0.00	0.00
6.80	0.00	0.00	0.00	9.40	0.00	0.00	0.00
6.85	0.00	0.00	0.00	9.45	0.00	0.00	0.00
6.90	0.00	0.00	0.00	9.50	0.00	0.00	0.00
6.95	0.00	0.00	0.00	9.55	0.00	0.00	0.00
7.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00
7.05	0.00	0.00	0.00	9.65	0.00	0.00	0.00
7.10	0.00	0.00	0.00	9.70	0.00	0.00	0.00
7.15	0.00	0.00	0.00	9.75	0.00	0.00	0.00
7.20	0.00	0.00	0.00	9.80	0.00	0.00	0.00
7.25	0.00	0.00	0.00	9.85	0.00	0.00	0.00
7.30	0.00	0.00	0.00	9.90	0.00	0.00	0.00
7.35	0.00	0.00	0.00	9.95	0.00	0.00	0.00
7.40	0.00	0.00	0.00	10.00	0.00	0.00	0.00
7.45	0.00	0.00	0.00	10.05	0.00	0.00	0.00
7.50	0.00	0.00	0.00	10.10	0.00	0.00	0.00
7.55	0.00	0.00	0.00	10.15	0.00	0.00	0.00
7.60	0.00	0.00	0.00	10.20	0.00	0.00	0.00
7.65	0.00	0.00	0.00	10.25	0.00	0.00	0.00
7.70	0.00	0.00	0.00	10.30	0.00	0.00	0.00
7.75	0.00	0.00	0.00	10.35	0.00	0.00	0.00

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
10.40	0.00	0.00	0.00	13.00	0.00	0.00	0.00
10.45	0.00	0.00	0.00	13.05	0.00	0.00	0.00
10.50	0.00	0.00	0.00	13.10	0.00	0.00	0.00
10.55	0.00	0.00	0.00	13.15	0.00	0.00	0.00
10.60	0.00	0.00	0.00	13.20	0.00	0.00	0.00
10.65	0.00	0.00	0.00	13.25	0.00	0.00	0.00
10.70	0.00	0.00	0.00	13.30	0.00	0.00	0.00
10.75	0.00	0.00	0.00	13.35	0.00	0.00	0.00
10.80	0.00	0.00	0.00	13.40	0.00	0.00	0.00
10.85	0.00	0.00	0.00	13.45	0.00	0.00	0.00
10.90	0.00	0.00	0.00	13.50	0.00	0.00	0.00
10.95	0.00	0.00	0.00	13.55	0.00	0.00	0.00
11.00	0.00	0.00	0.00	13.60	0.00	0.00	0.00
11.05	0.00	0.00	0.00	13.65	0.00	0.00	0.00
11.10	0.00	0.00	0.00	13.70	0.00	0.00	0.00
11.15	0.00	0.00	0.00	13.75	0.00	0.00	0.00
11.20	0.00	0.00	0.00	13.80	0.00	0.00	0.00
11.25	0.00	0.00	0.00	13.85	0.00	0.00	0.00
11.30	0.00	0.00	0.00	13.90	0.00	0.00	0.00
11.35	0.00	0.00	0.00	13.95	0.00	0.00	0.00
11.40	0.00	0.00	0.00	14.00	0.00	0.00	0.00
11.45	0.00	0.00	0.00	14.05	0.00	0.00	0.00
11.50	0.00	0.00	0.00	14.10	0.00	0.00	0.00
11.55	0.00	0.00	0.00	14.15	0.00	0.00	0.00
11.60	0.00	0.00	0.00	14.20	0.00	0.00	0.00
11.65	0.00	0.00	0.00	14.25	0.00	0.00	0.00
11.70	0.00	0.00	0.00	14.30	0.00	0.00	0.00
11.75	0.00	0.00	0.00	14.35	0.00	0.00	0.00
11.80	0.00	0.00	0.00	14.40	0.00	0.00	0.00
11.85	0.00	0.00	0.00	14.45	0.00	0.00	0.00
11.90	0.00	0.00	0.00	14.50	0.00	0.00	0.00
11.95	0.00	0.00	0.00	14.55	0.00	0.00	0.00
12.00	0.00	0.00	0.00	14.60	0.00	0.00	0.00
12.05	0.00	0.00	0.00	14.65	0.00	0.00	0.00
12.10	0.00	0.00	0.00	14.70	0.00	0.00	0.00
12.15	0.00	0.00	0.00	14.75	0.00	0.00	0.00
12.20	0.00	0.00	0.00	14.80	0.00	0.00	0.00
12.25	0.00	0.00	0.00	14.85	0.00	0.00	0.00
12.30	0.00	0.00	0.00	14.90	0.00	0.00	0.00
12.35	0.00	0.00	0.00	14.95	0.00	0.00	0.00
12.40	0.00	0.00	0.00	15.00	0.00	0.00	0.00
12.45	0.00	0.00	0.00	15.05	0.00	0.00	0.00
12.50	0.00	0.00	0.00	15.10	0.00	0.00	0.00
12.55	0.00	0.00	0.00	15.15	0.00	0.00	0.00
12.60	0.00	0.00	0.00	15.20	0.00	0.00	0.00
12.65	0.00	0.00	0.00	15.25	0.00	0.00	0.00
12.70	0.00	0.00	0.00	15.30	0.00	0.00	0.00
12.75	0.00	0.00	0.00	15.35	0.00	0.00	0.00
12.80	0.00	0.00	0.00	15.40	0.00	0.00	0.00
12.85	0.00	0.00	0.00	15.45	0.00	0.00	0.00
12.90	0.00	0.00	0.00	15.50	0.00	0.00	0.00
12.95	0.00	0.00	0.00	15.55	0.00	0.00	0.00

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
15.60	0.00	0.00	0.00	18.20	0.00	0.00	0.00
15.65	0.00	0.00	0.00	18.25	0.00	0.00	0.00
15.70	0.00	0.00	0.00	18.30	0.00	0.00	0.00
15.75	0.00	0.00	0.00	18.35	0.00	0.00	0.00
15.80	0.00	0.00	0.00	18.40	0.00	0.00	0.00
15.85	0.00	0.00	0.00	18.45	0.00	0.00	0.00
15.90	0.00	0.00	0.00	18.50	0.00	0.00	0.00
15.95	0.00	0.00	0.00	18.55	0.00	0.00	0.00
16.00	0.00	0.00	0.00	18.60	0.00	0.00	0.00
16.05	0.00	0.00	0.00	18.65	0.00	0.00	0.00
16.10	0.00	0.00	0.00	18.70	0.00	0.00	0.00
16.15	0.00	0.00	0.00	18.75	0.00	0.00	0.00
16.20	0.00	0.00	0.00	18.80	0.00	0.00	0.00
16.25	0.00	0.00	0.00	18.85	0.00	0.00	0.00
16.30	0.00	0.00	0.00	18.90	0.00	0.00	0.00
16.35	0.00	0.00	0.00	18.95	0.00	0.00	0.00
16.40	0.00	0.00	0.00	19.00	0.00	0.00	0.00
16.45	0.00	0.00	0.00	19.05	0.00	0.00	0.00
16.50	0.00	0.00	0.00	19.10	0.00	0.00	0.00
16.55	0.00	0.00	0.00	19.15	0.00	0.00	0.00
16.60	0.00	0.00	0.00	19.20	0.00	0.00	0.00
16.65	0.00	0.00	0.00	19.25	0.00	0.00	0.00
16.70	0.00	0.00	0.00	19.30	0.00	0.00	0.00
16.75	0.00	0.00	0.00	19.35	0.00	0.00	0.00
16.80	0.00	0.00	0.00	19.40	0.00	0.00	0.00
16.85	0.00	0.00	0.00	19.45	0.00	0.00	0.00
16.90	0.00	0.00	0.00	19.50	0.00	0.00	0.00
16.95	0.00	0.00	0.00	19.55	0.00	0.00	0.00
17.00	0.00	0.00	0.00	19.60	0.00	0.00	0.00
17.05	0.00	0.00	0.00	19.65	0.00	0.00	0.00
17.10	0.00	0.00	0.00	19.70	0.00	0.00	0.00
17.15	0.00	0.00	0.00	19.75	0.00	0.00	0.00
17.20	0.00	0.00	0.00	19.80	0.00	0.00	0.00
17.25	0.00	0.00	0.00	19.85	0.00	0.00	0.00
17.30	0.00	0.00	0.00	19.90	0.00	0.00	0.00
17.35	0.00	0.00	0.00	19.95	0.00	0.00	0.00
17.40	0.00	0.00	0.00	20.00	0.00	0.00	0.00
17.45	0.00	0.00	0.00	20.05	0.00	0.00	0.00
17.50	0.00	0.00	0.00	20.10	0.00	0.00	0.00
17.55	0.00	0.00	0.00	20.15	0.00	0.00	0.00
17.60	0.00	0.00	0.00	20.20	0.00	0.00	0.00
17.65	0.00	0.00	0.00	20.25	0.00	0.00	0.00
17.70	0.00	0.00	0.00	20.30	0.00	0.00	0.00
17.75	0.00	0.00	0.00	20.35	0.00	0.00	0.00
17.80	0.00	0.00	0.00	20.40	0.00	0.00	0.00
17.85	0.00	0.00	0.00	20.45	0.00	0.00	0.00
17.90	0.00	0.00	0.00	20.50	0.00	0.00	0.00
17.95	0.00	0.00	0.00	20.55	0.00	0.00	0.00
18.00	0.00	0.00	0.00	20.60	0.00	0.00	0.00
18.05	0.00	0.00	0.00	20.65	0.00	0.00	0.00
18.10	0.00	0.00	0.00	20.70	0.00	0.00	0.00
18.15	0.00	0.00	0.00	20.75	0.00	0.00	0.00

Hydrograph for Link PPOI-1: PPOI-1 (continued)

Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)	Time (hours)	Inflow (cfs)	Elevation (feet)	Primary (cfs)
20.80	0.00	0.00	0.00	23.40	0.00	0.00	0.00
20.85	0.00	0.00	0.00	23.45	0.00	0.00	0.00
20.90	0.00	0.00	0.00	23.50	0.00	0.00	0.00
20.95	0.00	0.00	0.00	23.55	0.00	0.00	0.00
21.00	0.00	0.00	0.00	23.60	0.00	0.00	0.00
21.05	0.00	0.00	0.00	23.65	0.00	0.00	0.00
21.10	0.00	0.00	0.00	23.70	0.00	0.00	0.00
21.15	0.00	0.00	0.00	23.75	0.00	0.00	0.00
21.20	0.00	0.00	0.00	23.80	0.00	0.00	0.00
21.25	0.00	0.00	0.00	23.85	0.00	0.00	0.00
21.30	0.00	0.00	0.00	23.90	0.00	0.00	0.00
21.35	0.00	0.00	0.00	23.95	0.00	0.00	0.00
21.40	0.00	0.00	0.00	24.00	0.00	0.00	0.00
21.45	0.00	0.00	0.00				
21.50	0.00	0.00	0.00				
21.55	0.00	0.00	0.00				
21.60	0.00	0.00	0.00				
21.65	0.00	0.00	0.00				
21.70	0.00	0.00	0.00				
21.75	0.00	0.00	0.00				
21.80	0.00	0.00	0.00				
21.85	0.00	0.00	0.00				
21.90	0.00	0.00	0.00				
21.95	0.00	0.00	0.00				
22.00	0.00	0.00	0.00				
22.05	0.00	0.00	0.00				
22.10	0.00	0.00	0.00				
22.15	0.00	0.00	0.00				
22.20	0.00	0.00	0.00				
22.25	0.00	0.00	0.00				
22.30	0.00	0.00	0.00				
22.35	0.00	0.00	0.00				
22.40	0.00	0.00	0.00				
22.45	0.00	0.00	0.00				
22.50	0.00	0.00	0.00				
22.55	0.00	0.00	0.00				
22.60	0.00	0.00	0.00				
22.65	0.00	0.00	0.00				
22.70	0.00	0.00	0.00				
22.75	0.00	0.00	0.00				
22.80	0.00	0.00	0.00				
22.85	0.00	0.00	0.00				
22.90	0.00	0.00	0.00				
22.95	0.00	0.00	0.00				
23.00	0.00	0.00	0.00				
23.05	0.00	0.00	0.00				
23.10	0.00	0.00	0.00				
23.15	0.00	0.00	0.00				
23.20	0.00	0.00	0.00				
23.25	0.00	0.00	0.00				
23.30	0.00	0.00	0.00				
23.35	0.00	0.00	0.00				

Events for Subcatchment 1S: PDA3 IMP WQU 101

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
WQ	**1.25**	**0.21**	**0.006**	**1.03**

Events for Subcatchment PDA1A IMP: PDA1A IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
WQ	**1.25**	**1.04**	**0.029**	**1.03**

Events for Subcatchment PDA1B IMP: PDA1B IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
WQ	**1.25**	**0.46**	**0.012**	**0.86**

Events for Subcatchment PDA2 IMP: PDA2 IMP

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
WQ	**1.25**	**3.56**	**0.100**	**1.03**

Events for Subcatchment PDA3 IMP: PDA3 IMP WQU 103

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
WQ	**1.25**	**0.51**	**0.015**	**1.03**

Events for Subcatchment PDA4 IMP: PDA4 IMP WQU 201-1

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
WQ	**1.25**	**3.41**	**0.096**	**1.03**

Events for Subcatchment PDA4A IMP: PDA4A IMP WQU 4

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
WQ	**1.25**	**1.85**	**0.052**	**1.03**

Events for Subcatchment PDA4B IMP: PDA4B IMP WQU 5

Event	Rainfall (inches)	Runoff (cfs)	Volume (acre-feet)	Depth (inches)
WQ	**1.25**	**0.77**	**0.022**	**1.03**

Events for Link P1A: P1A IMP WQU 121

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
WQ	**1.04**	**1.04**	**0.00**

Events for Link P1B: P1B IMP WQU 209

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
WQ	**4.02**	**4.02**	**0.00**

Events for Link PPOI-1: PPOI-1

Event	Inflow (cfs)	Primary (cfs)	Elevation (feet)
WQ	**11.78**	**11.78**	**0.00**

Appendix D:
Pipe Calculations

STORM SEWER CALCULATIONS

HOLTEC WAREHOUSE

MADE BY: BM DATE: 04/02/26

REV. BY: _ DATE: _

RAINFALL CURVE - TRENTON

PROJECT **HOLTEC WAREHOUSE**

PROJ. NO. USATX

SUBAREA DATA						DESIGN DATA												DESIGN FLOW							PIPE DATA					
LOCATION		AREA	"C"	CxA	SUM	TC	SUM	DES	"I"	INLET	FLOW	PIPE	Manning's	CIRC.	ELLIPTICAL SIZE (in.)		SLOPE	CAP	VEL	%FULL	VEL	DPTH	FLOW	TOTAL	LGTH	TOP	INVERTS		DEPTH	COVER
FROM	TO				CxA		TC	STM		FLOW	Q a	TYPE	Number	SIZE (in.)	VERT.	HORIZ.	%	Q f	V f	Qa/Qf	V a	INCH	TIME	TIME	I - I	GRATE	UPPER	LOWER	TO INV.	(inches)
													0.012																	
CO1	CO2	0.06	0.99	0.06	0.06	5.0	5.0	25	7.80	0.50	0.50	HDPE	0.012	10	10	10	0.50	1.7	3.1	30	2.7	3.7	0.3	5.3	50	10.79	7.56	7.31	3.2	26.9
CO2	CO-3	0.06	0.99	0.06	0.12	5.0	5.3	25	7.80	0.47	0.97	HDPE	0.012	10	10	10	0.50	1.7	3.1	58	3.2	5.4	0.3	5.6	50	10.97	7.31	7.06	3.7	32.1
CO-3	CO-4	0.06	0.99	0.06	0.19	5.0	5.6	25	7.70	0.50	1.44	HDPE	0.012	12	12	12	0.50	2.7	3.5	53	3.5	6.2	0.2	5.8	50	11.10	7.06	6.81	4.0	34.5
CO-4	CO-5	0.09	0.99	0.09	0.28	5.0	5.8	25	7.70	0.70	2.14	HDPE	0.012	12	12	12	0.50	2.7	3.5	78	3.8	7.9	0.2	6.0	50	11.15	6.81	6.56	4.3	38.1
CO-5	CO-6	0.09	0.99	0.09	0.36	5.0	6.0	25	7.70	0.70	5.38	HDPE	0.012	12	12	12	2.00	5.5	6.9	99	8.0	9.7	0.0	6.1	13	10.54	6.56	6.30	4.0	33.8
CO-8	CO-7	0.06	0.99	0.06	0.06	5.0	5.0	25	7.80	0.47	0.47	HDPE	0.012	10	10	10	0.50	1.7	3.1	24	2.5	3.3	0.3	5.3	50	10.57	7.29	7.04	3.3	27.5
CO-7	CO-6	0.06	0.99	0.06	0.12	5.0	5.3	25	7.80	0.47	0.93	HDPE	0.012	10	10	10	2.00	3.4	6.2	88	6.9	7.2	0.1	5.4	37	10.08	7.04	6.30	3.0	24.6
CO-6	EX INL	0.13	0.99	0.13	0.48	5.0	10.0	25	6.60	1.01	5.86	HDPE	0.012	12	12	12	2.30	5.9	7.5	100	8.5	9.8	0.0	10.0	5	9.98	6.30	6.19	3.7	30.2
CO9	CO 10	0.11	0.99	0.11	0.11	5.0	5.0	25	7.80	0.86	0.86	HDPE	0.012	10	10	10	2.00	3.4	6.2	26	5.1	3.4	0.2	5.2	50	10.64	8.46	7.46	2.2	14.3
CO 10	CO-11	0.11	0.99	0.11	0.22	5.0	5.2	25	7.80	0.86	1.71	HDPE	0.012	10	10	10	2.00	3.4	6.2	51	6.2	5.1	0.1	5.3	50	10.44	7.46	6.46	3.0	23.9
CO-12	CO-11	0.06	0.99	0.06	0.06	5.0	5.3	25	7.80	0.50	0.50	HDPE	0.012	10	10	10	2.00	3.4	6.2	15	4.3	2.5	0.2	5.5	50	10.45	7.46	6.46	3.0	24.0
CO-11	EX INL	0.09	0.99	0.09	0.37	5.0	5.5	25	7.80	0.70	2.91	HDPE	0.012	12	12	12	0.70	3.2	4.1	90	4.7	8.9	0.0	5.5	6	10.08	6.46	6.42	3.6	29.4
CO 13	CO 14	0.09	0.99	0.09	0.09	5.0	5.0	25	7.80	0.70	0.70	HDPE	0.012	10	10	10	2.00	3.4	6.2	21	4.8	3.1	0.2	5.2	50	10.22	8.46	7.46	1.8	9.3
CO 14	CO-15	0.09	0.99	0.09	0.18	5.0	5.2	25	7.80	0.70	1.40	HDPE	0.012	10	10	10	2.00	3.4	6.2	42	5.8	4.5	0.1	5.3	50	10.93	7.46	6.72	3.5	29.8
CO-17	CO-16	0.09	0.99	0.09	0.09	5.0	5.3	25	7.80	0.70	0.70	HDPE	0.012	10	10	10	2.00	3.4	6.2	21	4.8	3.1	0.2	5.5	50	10.42	7.98	6.98	2.4	17.4
CO-16	CO-15	0.09	0.99	0.09	0.18	5.0	5.5	25	7.80	0.70	1.40	HDPE	0.012	10	10	10	2.00	3.4	6.2	42	5.8	4.5	0.0	5.5	13	10.39	6.98	6.72	3.4	29.1
CO-15	EX INL	0.00	0.99	0.00	0.36	5.0	5.5	25	7.70	0.00	2.77	HDPE	0.012	12	12	12	2.30	5.9	7.5	47	7.3	5.8	0.0	5.5	5	11.15	6.81	6.56	4.3	38.1
CO-18	DB-1	0.13	0.99	0.13	0.13	5.0	5.0	25	7.80	1.01	1.01	HDPE	0.012	10	10	10	2.00	3.4	6.2	30	5.3	3.7	0.0	5.0	13	10.71	8.17	7.16	2.5	18.6
DB-1	EX INL	0.01	0.99	0.01	0.14	5.0	5.0	25	7.80	0.08	1.09	HDPE	0.012	10	10	10	3.60	4.5	8.3	24	6.7	3.3	0.0	5.1	4	11.15	7.16	7.05	4.0	36.0

Table 13.6.2 Part 1 SIZE OF HORIZONTAL STORM DRAIN PIPING (for 1"/hr to 6"/hr rainfall rates)							
Size of Drain (inches)	Design Flow of Drain	Allowable Projected Roof Area at Various Rates of Rainfall per Hour (Square Feet of Roof)					
Slope 1/16 inch/foot							0.005
Size	GPM	1"/hr	2"/hr	3"/hr	4"/hr	5"/hr	6"/hr
2							
3							
4	53	5,101	2,551	1,700	1,275	1,020	850
5	97	9,336	4,668	3,112	2,334	1,867	1,556
6	157	15,111	7,556	5,037	3,778	3,022	2,519
8	339	32,629	16,314	10,876	8,157	6,526	5,438
10	615	59,194	29,597	19,731	14,798	11,839	9,866
12	999	96,154	48,077	32,051	24,039	19,231	16,026
15	1812	174,405	87,203	58,135	43,601	34,881	29,068
Slope 1/8 inch/foot							0.01
Size	GPM	1"/hr	2"/hr	3"/hr	4"/hr	5"/hr	6"/hr
2							
3	35	3,369	1,684	1,123	842	674	561
4	75	7,219	3,609	2,406	1,805	1,444	1,203
5	137	13,186	6,593	4,395	3,297	2,637	2,198
6	223	21,464	10,732	7,155	5,366	4,293	3,577
8	479	46,104	23,052	15,368	11,526	9,221	7,684
10	869	83,641	41,821	27,880	20,910	16,728	13,940
12	1413	136,002	68,001	45,334	34,000	27,200	22,667
15	2563	246,689	123,345	82,230	61,672	49,338	41,115
Slope 1/4 inch/foot							0.02
Size	GPM	1"/hr	2"/hr	3"/hr	4"/hr	5"/hr	6"/hr
2	17	1,636	818	545	409	327	273
3	50	4,813	2,406	1,604	1,203	963	802
4	107	10,299	5,149	3,433	2,575	2,060	1,716
5	194	18,673	9,336	6,224	4,668	3,735	3,112
6	315	30,319	15,159	10,106	7,580	6,064	5,053
8	678	65,258	32,629	21,753	16,314	13,052	10,876
10	1229	118,292	59,146	39,431	29,573	23,658	19,715
12	1999	192,404	96,202	64,135	48,101	38,481	32,067
15	3625	348,907	174,454	116,302	87,227	69,781	58,151
Slope 1/2 inch/foot							0.04
Size	GPM	1"/hr	2"/hr	3"/hr	4"/hr	5"/hr	6"/hr
2	24	2,310	1,155	770	578	462	385
3	70	6,738	3,369	2,246	1,684	1,348	1,123
4	151	14,534	7,267	4,845	3,633	2,907	2,422
5	274	26,373	13,186	8,791	6,593	5,275	4,395
6	445	42,831	21,416	14,277	10,708	8,566	7,139
8	959	92,304	46,152	30,768	23,076	18,461	15,384
10	1738	167,283	83,641	55,761	41,821	33,457	27,880
12	2827	272,099	136,050	90,700	68,025	54,420	45,350
15	5126	493,379	246,689	164,460	123,345	98,676	82,230

NOTES FOR TABLE 13.6.2 – Part 1

1. Design flows are based on fairly rough pipe with a Manning friction coefficient of n = 0.015

Table 13.6.2 Part 2 SIZE OF HORIZONTAL STORM DRAIN PIPING (for 7"/hr to 12"/hr rainfall rates)							
Size of Drain (inches)	Design Flow of Drain	Allowable Projected Roof Area at Various Rates of Rainfall per Hour (Square Feet of Roof)					
Slope 1/16 inch/foot							0.005
Size	GPM	7"/hr	8"/hr	9"/hr	10"/hr	11"/hr	12"/hr
2							
3							
4	53	729	638	567	510	464	425
5	97	1,334	1,167	1,037	934	849	778
6	157	2,159	1,889	1,679	1,511	1,374	1,259
8	339	4,661	4,079	3,625	3,263	2,966	2,719
10	615	8,456	7,399	6,577	5,919	5,381	4,933
12	999	13,736	12,019	10,684	9,615	8,741	8,013
15	1812	24,915	21,801	19,378	17,441	15,855	14,534
Slope 1/8 inch/foot							0.01
Size	GPM	7"/hr	8"/hr	9"/hr	10"/hr	11"/hr	12"/hr
2							
3	35	481	421	374	337	306	281
4	75	1,031	902	802	722	656	602
6	223	3,066	2,683	2,385	2,146	1,951	1,789
8	479	6,586	5,763	5,123	4,610	4,191	3,842
10	869	11,494	10,455	9,293	8,364	7,604	6,970
12	1413	12,429	17,000	15,111	13,600	12,364	11,334
15	2563	35,241	30,836	27,410	24,669	22,426	20,557
Slope 1/4 inch/foot							0.02
Size	GPM	7"/hr	8"/hr	9"/hr	10"/hr	11"/hr	12"/hr
2	17	234	205	182	164	149	136
3	50	688	602	535	481	438	401
4	107	1,471	1,287	1,144	1,030	936	858
5	194	2,668	2,334	2,075	1,867	1,698	1,556
6	315	4,331	3,790	3,369	3,032	2,756	2,527
8	678	9,323	8,157	7,251	6,526	5,933	5,438
10	1229	16,899	14,787	13,144	11,829	10,754	9,858
12	1999	27,486	24,051	21,378	19,240	17,491	16,034
15	3625	49,844	43,613	38,767	34,891	31,719	29,076
Slope 1/2 inch/foot							0.04
Size	GPM	7"/hr	8"/hr	9"/hr	10"/hr	11"/hr	12"/hr
2	24	330	289	257	231	210	193
3	70	963	842	749	674	613	562
4	151	2,076	1,817	1,615	1,453	1,321	1,211
5	274	3,768	3,297	2,930	2,637	2,398	2,198
6	445	6,119	5,354	4,759	4,283	3,894	3,569
8	959	13,186	11,538	10,256	9,230	8,391	7,692
10	1738	23,898	20,910	18,587	16,728	15,208	13,940
12	2827	38,871	34,012	30,233	27,210	24,736	22,675
15	5126	70,483	61,672	54,820	49,338	44,835	41,115

NOTES FOR TABLE 13.6.2 – Part 2

1. Design flows are based on fairly rough pipe with a Manning friction coefficient of n = 0.015.

Appendix E:
Reference Data

ii. N.J.A.C. 7:8-5.7(c)2 and N.J.A.C. 7:8-5.7(d)2 both allow an alternative to calculating the current and projected rainfall precipitation depths by using separate rainfall totals for each county. The 24-hour county rainfall amount provided by NRCS is duplicated here and can be found online at:

https://www.nrcs.usda.gov/sites/default/files/2022-09/NJ%2024%20Hour%20Rainfall%20Data.pdf.

Table 5-1: County-Specific, New Jersey 24-Hour Rainfall Frequency Data

NEW JERSEY 24 HOUR RAINFALL FREQUENCY DATA

Rainfall amounts in Inches

County	1 year	2 year	5 year	10 year	25 year	50 year	100 year
Atlantic	2.72	3.31	4.30	5.16	6.46	7.61	8.90
Bergen	2.75	3.34	4.27	5.07	6.28	7.32	8.47
Burlington	2.77	3.36	4.34	5.18	6.45	7.56	8.81
Camden	2.73	3.31	4.25	5.06	6.28	7.34	8.52
Cape May	2.67	3.25	4.22	5.07	6.34	7.47	8.73
Cumberland	2.69	3.27	4.25	5.09	6.37	7.49	8.76
Essex	2.85	3.44	4.40	5.22	6.44	7.49	8.66
Gloucester	2.71	3.29	4.24	5.05	6.29	7.36	8.55
Hudson	2.73	3.31	4.23	5.02	6.19	7.20	8.31
Hunterdon	2.80	3.38	4.26	5.00	6.09	7.02	8.03
Mercer	2.74	3.31	4.23	5.01	6.19	7.20	8.33
Middlesex	2.76	3.35	4.30	5.12	6.36	7.43	8.63
Monmouth	2.79	3.38	4.38	5.23	6.53	7.66	8.94
Morris	2.94	3.54	4.47	5.24	6.37	7.32	8.35
Ocean	2.81	3.42	4.45	5.33	6.68	7.87	9.20
Passaic	2.87	3.47	4.42	5.23	6.43	7.47	8.62
Salem	2.69	3.26	4.20	5.00	6.22	7.28	8.45
Somerset	2.76	3.34	4.25	5.01	6.15	7.13	8.21
Sussex	2.68	3.22	4.02	4.70	5.72	6.60	7.58
Union	2.80	3.39	4.35	5.17	6.42	7.49	8.69
Warren	2.78	3.34	4.18	4.89	5.93	6.83	7.82

Notes: The average point rainfall amounts listed above were developed from data contained in NOAA Atlas 14 Volume 2.

Point rainfall estimates for specific locations may be obtained from the Precipitation Frequency Data Server located at http://www.nws.noaa.gov/ohd/hdsc/

For most hydrologic design procedures, the rainfall amounts listed above may be rounded to the nearest tenth of an inch.

b. N.J.A.C.7:8-5.7(c) requires the precipitation depths of the current 2-, 10- and 100-year storm events be determined by multiplying the NOAA rainfall data with the current precipitation adjustment factors in Table 5-5 at N.J.A.C.7:8-5.7(c)2. N.J.A.C.7:8-5.7(d) requires the precipitation depths of the projected 2-, 10- and 100-year storm events be determined by multiplying the NOAA rainfall data with the future precipitation change factors in Table 5-6 at N.J.A.C.7:8-5.7(d). Table 5-5 and Table 5-6 from the Rules are reproduced below.

Current Precipitation Adjustment Factors at N.J.A.C. 7:8-5.7(c) as Table 5-5

County	Current Precipitation Adjustment Factors		
	2-year Design Storm	10-year Design Storm	100-year Design Storm
Atlantic	1.01	1.02	1.03
Bergen	1.01	1.03	1.06
Burlington	0.99	1.01	1.04
Camden	1.03	1.04	1.05
Cape May	1.03	1.03	1.04
Cumberland	1.03	1.03	1.01
Essex	1.01	1.03	1.06
Gloucester	1.05	1.06	1.06
Hudson	1.03	1.05	1.09
Hunterdon	1.02	1.05	1.13
Mercer	1.01	1.02	1.04
Middlesex	1.00	1.01	1.03
Monmouth	1.00	1.01	1.02
Morris	1.01	1.03	1.06
Ocean	1.00	1.01	1.03
Passaic	1.00	1.02	1.05
Salem	1.02	1.03	1.03
Somerset	1.00	1.03	1.09
Sussex	1.03	1.04	1.07
Union	1.01	1.03	1.06
Warren	1.02	1.07	1.15

Future Precipitation Change Factors at N.J.A.C. 7:8-5.7(d) as Table 5-6

County	Future Precipitation Change Factors		
	2-year Design Storm	10-year Design Storm	100-year Design Storm
Atlantic	1.22	1.24	1.39
Bergen	1.20	1.23	1.37
Burlington	1.17	1.18	1.32
Camden	1.18	1.22	1.39
Cape May	1.21	1.24	1.32
Cumberland	1.20	1.21	1.39
Essex	1.19	1.22	1.33
Gloucester	1.19	1.23	1.41
Hudson	1.19	1.19	1.23
Hunterdon	1.19	1.23	1.42
Mercer	1.16	1.17	1.36
Middlesex	1.19	1.21	1.33
Monmouth	1.19	1.19	1.26
Morris	1.23	1.28	1.46
Ocean	1.18	1.19	1.24
Passaic	1.21	1.27	1.50
Salem	1.20	1.23	1.32
Somerset	1.19	1.24	1.48
Sussex	1.24	1.29	1.50
Union	1.20	1.23	1.35
Warren	1.20	1.25	1.37

PREPARED FOR:

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Marlton, NJ 08053

PREPARED BY:

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1256 N. Church Street
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STORMWATER MANAGEMENT REPORT

HOLTEC TECHNOLOGY CENTER
BLOCK 457-LOT 16, p/o BLOCK 455-LOT 1,
BLOCKS 511, 512, 514 & 515
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

T&M PROJECT NO. HLTC-00010
February 17, 2015
Revised May 1, 2015

Erik R. Littlehales, P.E.
NJ License No. 24GE04312700

David J. Fleming, P.E.,
NJ License No. 24GE3321600

Holtec Technology Center Drainage Report
Manufactured Treatment Device Flow Summary

HLTC-00010

Revised 5/1/2015

WQU-101 Vortechs 7000

Inlet #	Impervious (SF)	Impervious (Ac)	Impervious "C"	Pervious (SF)	Pervious (Ac)	Pervious "C"	Total Area (Ac)	Composite "C"	I (in/hr)	Q=CIA
101A	9,770	0.22	0.99	6,110	0.14	0.65	0.36	0.86	3.200	0.99
101B	5,579	0.13	0.99	3,089	0.07	0.65	0.20	0.87	3.200	0.56
101C	14,321	0.33	0.99	10,386	0.24	0.65	0.57	0.85	3.200	1.55
101D	10,565	0.24	0.99	1,080	0.02	0.65	0.26	0.96	3.200	0.80
		0.92					1.39	0.89		3.90

EXISTING MTD

WQU-103 Vortechs 16000

Inlet #	Impervious (SF)	Impervious (Ac)	Impervious "C"	Pervious (SF)	Pervious (Ac)	Pervious "C"	Total Area (Ac)	Composite "C"	I (in/hr)	Q=CIA
103A	5,662	0.13	0.99	2,036	0.05	0.65	0.18	0.9	3.200	0.52
103B	3,466	0.08	0.99	8,342	0.19	0.65	0.27	0.75	3.200	0.65
103C	3,935	0.09	0.99	9,230	0.21	0.65	0.30	0.75	3.200	0.72
103D	5,935	0.14	0.99	2,170	0.05	0.65	0.19	0.9	3.200	0.55
103E	0	0.00	0.99	8,895	0.20	0.65	0.20	0.65	3.200	0.42
103F	1,668	0.04	0.99	3,360	0.08	0.65	0.12	0.76	3.200	0.29
103G	2,532	0.06	0.99	1,097	0.03	0.65	0.09	0.88	3.200	0.25
103H	0	0.00	0.99	3,668	0.08	0.65	0.08	0.65	3.200	0.17
103I	2,743	0.06	0.99	0	0.00	0.65	0.06	0.99	3.200	0.19
103J	6,026	0.14	0.99	0	0.00	0.65	0.14	0.99	3.200	0.44
103K	35,793	0.82	0.99	17,704	0.41	0.65	1.23	0.88	3.200	3.46
		1.56					2.86	0.83		7.56

EXISTING MTD

5, 13x7 Filterra Units - NE Parking Area

Inlet #	Impervious (SF)	Impervious (Ac)	Impervious "C"	Pervious (SF)	Pervious (Ac)	Pervious "C"	Total Area (Ac)	Composite "C"	I (in/hr)	Q=CIA
107A	10,323	0.24	0.99	652	0.01	0.65	0.25	0.98	3.200	0.78
107B	20,470	0.47	0.99	1,310	0.03	0.65	0.50	0.97	3.200	1.55
108A, x2	41,770	0.96	0.99	1,700	0.04	0.65	1.00	0.98	3.200	3.14
109A	20,048	0.46	0.99	1,732	0.04	0.65	0.50	0.96	3.200	1.54
		2.13					2.25	0.97		7.01

WQU-110 A & B Vortechs 11000, x2

Inlet #	Impervious (SF)	Impervious (Ac)	Impervious "C"	Pervious (SF)	Pervious (Ac)	Pervious "C"	Total Area (Ac)	Composite "C"	I (in/hr)	Q=CIA
111A	7,693	0.18	0.99	11,957	0.27	0.65	0.45	0.79	3.200	1.14
111B	14,115	0.32	0.99	0	0.00	0.65	0.32	0.99	3.200	1.01
112	43,331	0.99	0.99	10,779	0.25	0.65	1.24	0.92	3.200	3.65
113	33,800	0.78	0.99	8,395	0.19	0.65	0.97	0.92	3.200	2.86
114	9,683	0.22	0.99	5,229	0.12	0.65	0.34	0.87	3.200	0.95
115	15,753	0.36	0.99	4,560	0.10	0.65	0.46	0.92	3.200	1.35
116	7,497	0.17	0.99	3,635	0.08	0.65	0.25	0.88	3.200	0.70
117	4,384	0.10	0.99	3,635	0.08	0.65	0.18	0.84	3.200	0.45
118	22,462	0.52	0.99	4,171	0.10	0.65	0.62	0.94	3.200	1.86
		3.64					4.83	0.90		13.86

WQU-121 Vortechs 16000, x2

Inlet #	Impervious (SF)	Impervious (Ac)	Impervious "C"	Pervious (SF)	Pervious (Ac)	Pervious "C"	Total Area (Ac)	Composite "C"	I (in/hr)	Q=CIA
122	7,800	0.18	0.99	992	0.02	0.65	0.20	0.96	3.200	0.61
122A	18,690	0.43	0.99	0	0.00	0.65	0.43	0.99	3.200	1.36
122B	18,559	0.43	0.99	0	0.00	0.65	0.43	0.99	3.200	1.36
122D	8,981	0.21	0.99	0	0.00	0.65	0.21	0.99	3.200	0.67
122E	4,533	0.10	0.99	3,531	0.08	0.65	0.18	0.84	3.200	0.45
123	3,000	0.07	0.99	0	0.00	0.65	0.07	0.99	3.200	0.22
124	12,466	0.29	0.99	4,426	0.10	0.65	0.39	0.9	3.200	1.12
124A	3,268	0.08	0.99	0	0.00	0.65	0.08	0.99	3.200	0.25
124B	3,234	0.07	0.99	2,717	0.06	0.65	0.13	0.83	3.200	0.35
125	13,033	0.30	0.99	9,319	0.21	0.65	0.51	0.85	3.200	1.39
125A	11,147	0.26	0.99	5,593	0.13	0.65	0.39	0.88	3.200	1.10
126	11,400	0.26	0.99	0	0.00	0.65	0.26	0.99	3.200	0.82
127	12,499	0.29	0.99	7,414	0.17	0.65	0.46	0.86	3.200	1.27
128	14,995	0.34	0.99	1,710	0.04	0.65	0.38	0.95	3.200	1.16
129	33,953	0.78	0.99	1,732	0.04	0.65	0.82	0.97	3.200	2.55
130	26,915	0.62	0.99	1,700	0.04	0.65	0.66	0.97	3.200	2.05
		4.71					5.60	0.93		16.76

EXISTING MTD

WQU-201 Vortechs 9000

Inlet #	Impervious (SF)	Impervious (Ac)	Impervious "C"	Pervious (SF)	Pervious (Ac)	Pervious "C"	Total Area (Ac)	Composite "C"	I (in/hr)	Q=CIA
201B	17,931	0.41	0.99	0	0.00	0.65	0.41	0.99	3.200	1.30
201C	17,208	0.40	0.99	0	0.00	0.65	0.40	0.99	3.200	1.27
201D	33,010	0.76	0.99	0	0.00	0.65	0.76	0.99	3.200	2.41
		1.57					1.57	0.99		4.97

WQU-209 Vortechs 16000

Inlet #	Impervious (SF)	Impervious (Ac)	Impervious "C"	Pervious (SF)	Pervious (Ac)	Pervious "C"	Total Area (Ac)	Composite "C"	I (in/hr)	Q=CIA
209A	44,945	1.03	0.99	0	0.00	0.65	1.03	0.99	3.200	3.26
209B	31,800	0.73	0.99	0	0.00	0.65	0.73	0.99	3.200	2.31
209C	7,500	0.17	0.99	0	0.00	0.65	0.17	0.99	3.200	0.54
209D	6,850	0.16	0.99	0	0.00	0.65	0.16	0.99	3.200	0.51
209E	14,832	0.34	0.99	0	0.00	0.65	0.34	0.99	3.200	1.08
		2.43					2.43	0.99		7.70

9, 13x7 Filterra Units- Office Parking Area

Inlet #	Impervious (SF)	Impervious (Ac)	Impervious "C"	Pervious (SF)	Pervious (Ac)	Pervious "C"	Total Area (Ac)	Composite "C"	I (in/hr)	Q=CIA
301	36,769	0.84	0.99	6,262	0.12	0.65	0.96	0.95	3.200	2.92
301A	18,571	0.43	0.99	2,713	0.06	0.65	0.49	0.95	3.200	1.49
301B	19,632	0.45	0.99	2,329	0.05	0.65	0.50	0.96	3.200	1.54
303, x2	30,241	0.69	0.99	6,795	0.16	0.65	0.85	0.93	3.200	2.53
303A	20,178	0.46	0.99	1,602	0.04	0.65	0.50	0.96	3.200	1.54
303B	19,766	0.45	0.99	2,332	0.05	0.65	0.50	0.96	3.200	1.54
304	14,315	0.33	0.99	1,353	0.03	0.65	0.36	0.96	3.200	1.11
305	13,380	0.31	0.99	1,780	0.04	0.65	0.35	0.95	3.200	1.06
		3.96					4.51	0.95		13.73

CONTECH ENGINEERED SOLUTIONS

Sizing Summary

Holtec Technology Center, LLC
Camden, NJ

Information provided by Engineer (T&M Associates):

- Total contributing area = 1.39 acres
- WQ Flowrate = 3.90 cfs
- Contributing Inlets = 101A, 101B, 101C, and 101D
- Presiding agency = NJDEP

Sizing Summary:

The CONTECH Engineered Solutions Vortechs® stormwater treatment system is a hydrodynamic separator designed to enhance gravitational separation of floating and settleable materials from stormwater flows. Stormwater flows enter the unit tangentially to the grit chamber, which promotes a gentle swirling motion. As stormwater circles within the grit chamber, pollutants migrate toward the center of the unit where velocities are the lowest. The majority of settleable solids are left behind as stormwater exits the swirl chamber. Stormwater flows then are directed below a floatables baffle wall, where buoyant debris and hydrocarbons are removed. The Vortechs system is NJCAT verified and as a result has received an interim certification from the NJDEP for 50% TSS removal.

For this project the Vortechs system was designed to treat the 2004 NJDEP water quality design storm – a two-hour, variable distribution storm, with a rainfall depth of 1.25" inches. The engineer of record modeled the water quality design storm runoff, and the peak water quality flow rate was determined to be 3.90 cfs.

Water Quality Design Storm Peak Runoff Rate (cfs)	Vortechs Model VX 7000 Water Quality Treatment Flow Rate (cfs)
3.90	4.50

Maintenance:

Like any stormwater best management practice, the Vortechs system requires regular inspection and maintenance to ensure optimal performance. Maintenance frequency will be driven by site conditions. Quarterly visual inspections are recommended, at which time the accumulation of pollutants can be determined. On average, the Vortechs system requires annual removal of accumulated pollutants.

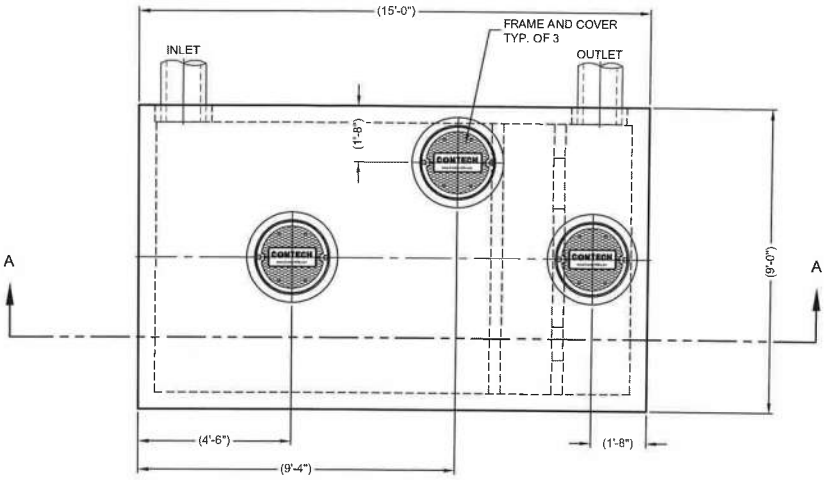
Thank you for the opportunity to present this information to you and your client.

Sincerely,

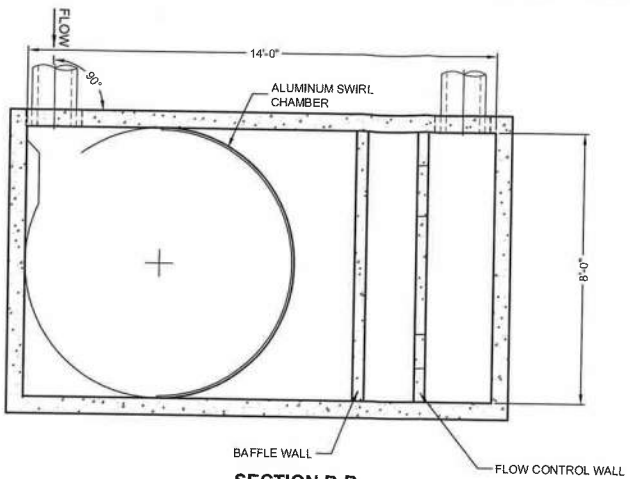
Andrew Brown, E.I.T.
Stormwater Design Engineer

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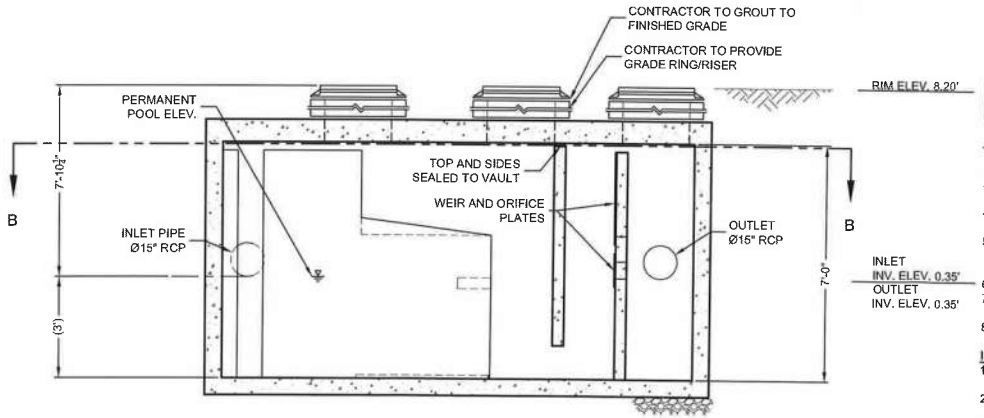
605 Global Way, Suite 113, Linthicum, MD 21090
Toll-free: 866.740.3318 Fax: 866.376.8511



PLAN VIEW



SECTION B-B



SECTION A-A

- BYPASS STRUCTURE INFORMATION -

BYPASS STRUCTURE = 4' DIA.
BYPASS WEIR CREST LENGTH = 4'
BYPASS WEIR CREST ELEVATION = 2.46'

- NOT SUPPLIED BY CONTECH ENGINEERED SOLUTIONS LLC -

MATERIALS LIST - PROVIDED BY CONTECH

COUNT	DESCRIPTION	INSTALLED BY
1	ALUMINUM SWIRL CHAMBER	CONTECH
1	ALUMINUM WEIR PLATE	CONTECH
1	ALUMINUM ORIFICE PLATE	CONTECH
1	SWIRL CHAMBER SEALANT	CONTECH
1	SEALANT FOR JOINTS	CONTRACTOR
3	Ø24" x 4" FRAME AND COVER	CONTRACTOR

SITE DESIGN DATA

WATER QUALITY FLOW RATE	3.90 cfs
PEAK FLOW RATE	OFFLINE
RETURN PERIOD OF PEAK FLOW	N/A

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. VORTECHS WATER QUALITY VAULT SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING EARTH COVER OF 0' - 5', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM
6. ACTUAL GROUNDWATER ELEVATION.
7. WATER SURFACE ELEVATION IN THE VORTECHS SYSTEM IS EXPECTED TO BE AT OR BELOW TOP OF FLOW CONTROL WALL DURING THE DESIGN STORM.
8. GROUND WATER ELEVATION ASSUMED AT INLET PIPE INVERT.

INSTALLATION NOTES

1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE VORTECHS VAULT (LIFTING CLUTCHES PROVIDED).
3. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL VAULT JOINTS AND ASSEMBLE VAULT.
4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
5. CONTRACTOR TO PROVIDE ANY EXTERNAL BYPASS VAULTS REQUIRED FOR OFFLINE LAYOUT (UNLESS OTHERWISE SPECIFIED.
6. CONTRACTOR TO PROVIDE AND INSTALL MANHOLE RISERS, GRADE RINGS OR BLOCK REQUIRED BETWEEN THE TOP OF THE VORTECHS SYSTEM AND THE BASE OF THE MANHOLE FRAMES. TOP SLAB OPENING DIAMETER MAY BE DIFFERENT FROM THOSE SHOWN.

STRUCTURE WEIGHT

APPROXIMATE HEAVIEST PICK = 43,000 LBS.

Vortechs®

THIS PRODUCT MAY BE PROTECTED BY THE FOLLOWING U.S. PATENT: 5,759,415; RELATED FOREIGN PATENTS.

CONTECH
PROPOSAL
DRAWING

GIL
LS/LS

MARK	DATE	REVISION DESCRIPTION	BY

Vortechs 7000 - 517619-200
Holtec Technology Center, LLC
Camden, NJ
SITE DESIGNATION: WQU-101

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
800.338.1122 513.645.7000 513.645.7993 FAX
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069

THIS PRODUCT MAY BE PROTECTED BY THE FOLLOWING U.S. PATENTS: 5,759,415; RELATED FOREIGN PATENTS.

DATE: 4/6/15
DESIGNED: TAB
DRAWN: TAB
CHECKED:
APPROVED:
PROJECT NUMBER: 517619
SHEET: 1 OF #

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CONTECH ENGINEERED SOLUTIONS

VORTECHS SYSTEM® FLOW CALCULATIONS
HOLTEC TECHNOLOGY CENTER
CAMDEN, NJ
MODEL NAME VORTECHS 7000
SITE DESIGNATION WQU-101

Vortechs Orifice
Cd = 0.56
A (ft^2) = 0.43
Crest Elevation (ft) = 0.43

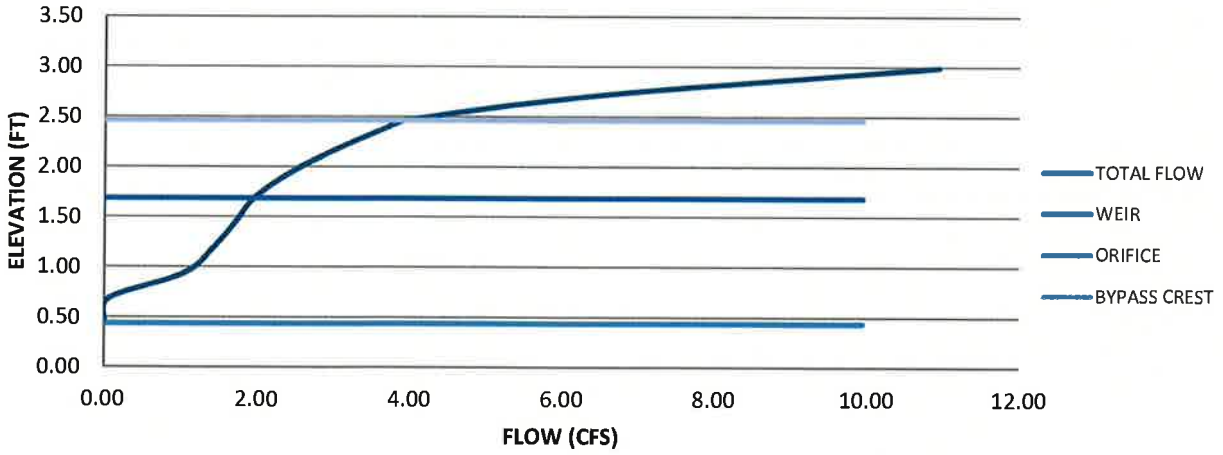
Vortechs Weir
Cd = 3.37
Weir Crest Length (ft) = 0.58
Crest Elevation (ft) = 1.68

Bypass Weir
Cd = 3.3
Crest Length (ft) = 4
Crest Elev. (ft) = 2.46

Head (ft)	Elevation (ft)	Orifice Flow (cfs)	Weir Flow (cfs)	Bypass Flow (cfs)	Total Flow (cfs)
0.00	0.43	0.00	0.00	0.00	0.00
0.25	0.68	0.06	0.00	0.00	0.06
0.50	0.93	1.03	0.00	0.00	1.03
0.75	1.18	1.41	0.00	0.00	1.41
1.00	1.43	1.70	0.00	0.00	1.70
1.25	1.68	1.95	0.00	0.00	1.95
1.50	1.93	2.17	0.24	0.00	2.41
1.75	2.18	2.37	0.69	0.00	3.06
2.00	2.43	2.56	1.27	0.00	3.83
2.03	2.46	2.58	1.34	0.00	3.91
2.28	2.71	2.75	2.03	1.65	6.43
2.56	2.99	2.93	2.92	5.09	10.94
2.02	2.46	2.57	1.33	0.00	3.90
2.03	3.00	2.72	2.96	5.26	10.94

Calculated by: TAB | 4/2/15

VORTECHS STAGE DISCHARGE CURVE



CONTECH ENGINEERED SOLUTIONS

Sizing Summary

Holtec Technology Center, LLC
Camden, NJ

Information provided by Engineer (T&M Associates):

- Total contributing area = 2.86 acres
- WQ Flowrate = 7.66 cfs
- Contributing Inlets = 103A through 103K
- Presiding agency = NJDEP

Sizing Summary:

The CONTECH Engineered Solutions Vortechs® stormwater treatment system is a hydrodynamic separator designed to enhance gravitational separation of floating and settleable materials from stormwater flows. Stormwater flows enter the unit tangentially to the grit chamber, which promotes a gentle swirling motion. As stormwater circles within the grit chamber, pollutants migrate toward the center of the unit where velocities are the lowest. The majority of settleable solids are left behind as stormwater exits the swirl chamber. Stormwater flows then are directed below a floatables baffle wall, where buoyant debris and hydrocarbons are removed. The Vortechs system is NJCAT verified and as a result has received an interim certification from the NJDEP for 50% TSS removal.

For this project the Vortechs system was designed to treat the 2004 NJDEP water quality design storm – a two-hour, variable distribution storm, with a rainfall depth of 1.25" inches. The engineer of record modeled the water quality design storm runoff, and the peak water quality flow rate was determined to be 7.66 cfs.

Water Quality Design Storm Peak Runoff Rate (cfs)	Vortechs Model VX 16000 Water Quality Treatment Flow Rate (cfs)
7.66	10.10

Maintenance:

Like any stormwater best management practice, the Vortechs system requires regular inspection and maintenance to ensure optimal performance. Maintenance frequency will be driven by site conditions. Quarterly visual inspections are recommended, at which time the accumulation of pollutants can be determined. On average, the Vortechs system requires annual removal of accumulated pollutants.

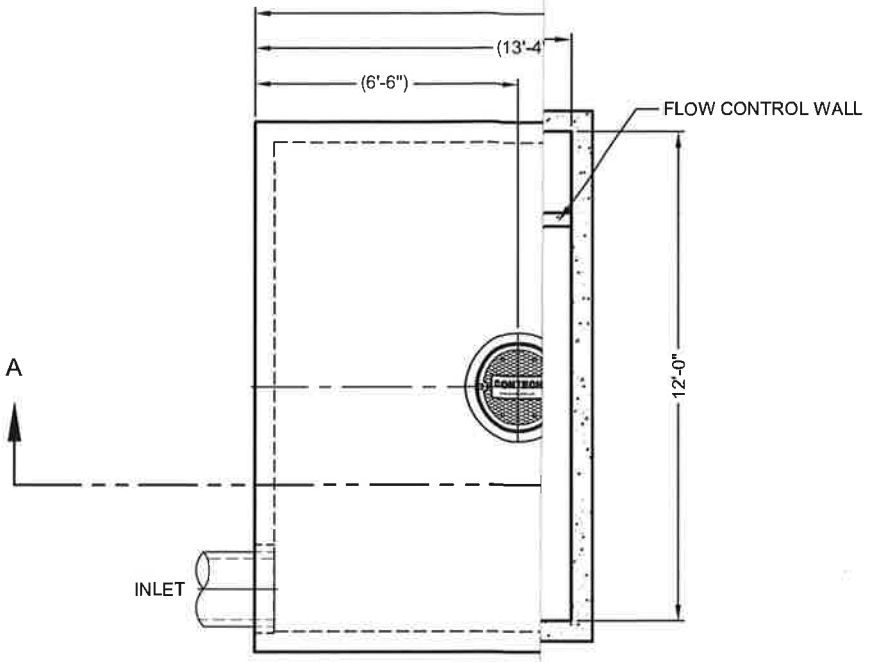
Thank you for the opportunity to present this information to you and your client.

Sincerely,

Andrew Brown, E.I.T.
Stormwater Design Engineer

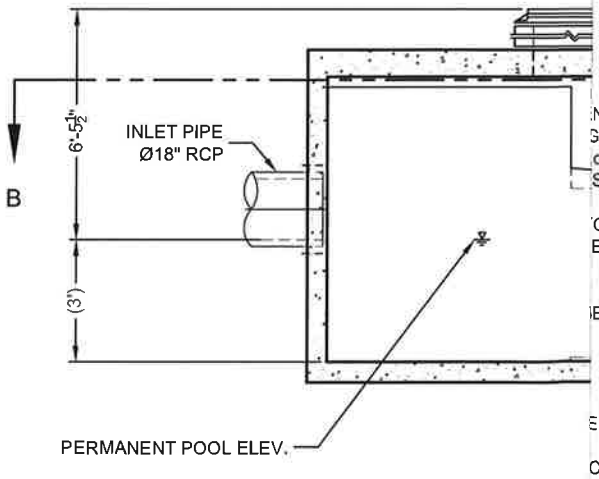
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605 Global Way, Suite 113, Linthicum, MD 21090
Toll-free: 866.740.3318 Fax: 866.376.8511



SITE DESIGN DATA

WATER QUALITY FLOW RATE	7.66 cfs
PEAK FLOW RATE	OFFLINE
RETURN PERIOD OF PEAK FLOW	N/A



NSIONS MAY VARY.
GHT, PLEASE CONTACT YOUR
com
SIGN DATA AND INFORMATION

O M306 LOAD RATING, ASSUMING
E OUTLET PIPE INVERT ELEVATION.

E AT OR BELOW TOP OF FLOW

E SITE-SPECIFIC DESIGN

CH CAPACITY TO LIFT AND SET THE

O ASSEMBLE VAULT.
RTS WITH ELEVATIONS SHOWN.
OFFLINE LAYOUT (UNLESS

OR BLOCK REQUIRED BETWEEN THE
TOP SLAB OPENING DIAMETER

- BYPASS STRUCTURE INFORMATION -

BYPASS STRUCTURE = 8' DIA.
BYPASS WEIR CREST LENGTH = 8'
BYPASS WEIR CREST ELEVATION = 3.67'

- NOT SUPPLIED BY CONTECH CONSTRUCTION PRODUCTS -

GIL
RE/LS

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MARK	DATE	REVISION DESCRIPTION	BY

Vortechs 16000 - 517619-210
Holtec Technology Center, LLC
Camden, NJ
SITE DESIGNATION: WQU-103

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

Vortechs®

THIS PRODUCT MAY BE PROTECTED BY THE FOLLOWING U.S. PATENTS: 5,759,415; RELATED FOREIGN PATENTS.

DATE:	4/6/15
DESIGNED: #	DRAWN: TAB
CHECKED:	APPROVED:
PROJECT NUMBER:	517619
SHEET:	1 OF #

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CONTECH ENGINEERED SOLUTIONS

VORTECHS SYSTEM® FLOW CALCULATIONS
HOLTEC TECHNOLOGY CENTER
CAMDEN, NJ
MODEL NAME VORTECHS 16000
SITE DESIGNATION WQU-103

Vortechs Orifice
Cd = 0.56
A (ft^2) = 0.94
Crest Elevation (ft) = 1.62

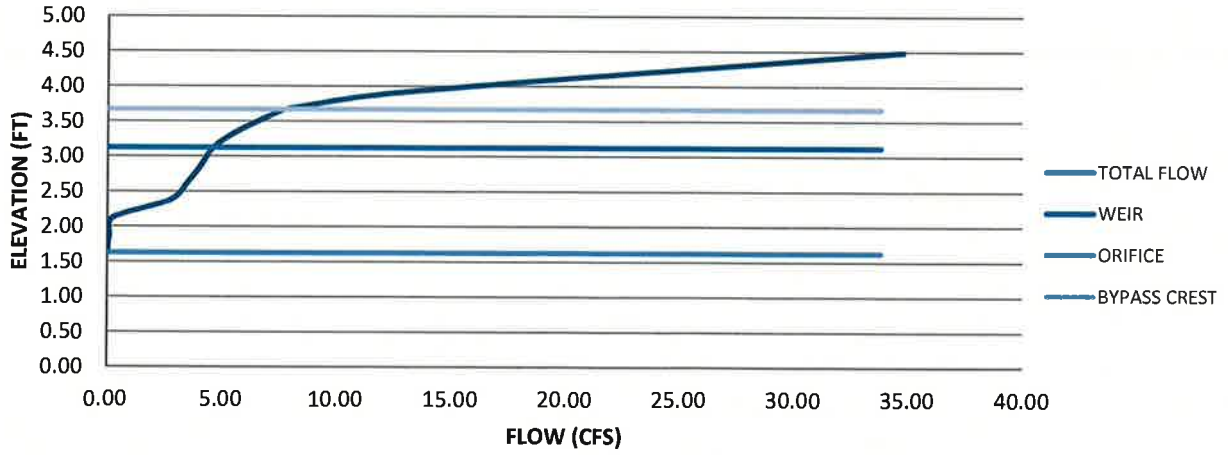
Vortechs Weir
Cd = 3.37
Weir Crest Length (ft) = 1.58
Crest Elevation (ft) = 3.12

Bypass Weir
Cd = 3.3
Crest Length (ft) = 8
Crest Elev. (ft) = 3.67

Head (ft)	Elevation (ft)	Orifice Flow (cfs)	Weir Flow (cfs)	Bypass Flow (cfs)	Total Flow (cfs)
0.00	1.62	0.00	0.00	0.00	0.00
0.25	1.87	0.09	0.00	0.00	0.09
0.50	2.12	0.25	0.00	0.00	0.25
0.75	2.37	2.74	0.00	0.00	2.74
1.00	2.62	3.46	0.00	0.00	3.46
1.25	2.87	4.06	0.00	0.00	4.06
1.50	3.12	4.58	0.00	0.00	4.58
1.75	3.37	5.05	0.66	0.00	5.71
2.00	3.62	5.47	1.88	0.00	7.36
2.05	3.67	5.55	2.15	0.00	7.70
2.30	3.92	5.94	3.79	3.30	13.03
2.87	4.49	6.75	8.49	19.55	34.79
2.04	3.66	5.54	2.12	0.00	7.66
2.21	4.50	6.30	8.59	19.90	34.79

Calculated by: TAB | 4/2/15

VORTECHS STAGE DISCHARGE CURVE



Sizing Summary

Holtec Technology Center, LLC
Camden, NJ

Information provided by Engineer (T&M Associates):

- Total contributing area = 4.91 acres
- WQ Flowrate = 13.86 cfs
- Contributing Inlets = 111A through 118
- Presiding agency = NJDEP

Sizing Summary:

The CONTECH Engineered Solutions Vortechs® stormwater treatment system is a hydrodynamic separator designed to enhance gravitational separation of floating and settleable materials from stormwater flows. Stormwater flows enter the unit tangentially to the grit chamber, which promotes a gentle swirling motion. As stormwater circles within the grit chamber, pollutants migrate toward the center of the unit where velocities are the lowest. The majority of settleable solids are left behind as stormwater exits the swirl chamber. Stormwater flows then are directed below a floatables baffle wall, where buoyant debris and hydrocarbons are removed. The Vortechs system is NJCAT verified and as a result has received an interim certification from the NJDEP for 50% TSS removal.

For this project the Vortechs system was designed to treat the 2004 NJDEP water quality design storm – a two-hour, variable distribution storm, with a rainfall depth of 1.25" inches. The engineer of record modeled the water quality design storm runoff, and the peak water quality flow rate was determined to be 13.86 cfs.

Water Quality Design Storm Peak Runoff Rate (cfs)	Two Vortechs Model VX 11000 In Parallel Water Quality Treatment Flow Rate (cfs)
13.86	14.00

Maintenance:

Like any stormwater best management practice, the Vortechs system requires regular inspection and maintenance to ensure optimal performance. Maintenance frequency will be driven by site conditions. Quarterly visual inspections are recommended, at which time the accumulation of pollutants can be determined. On average, the Vortechs system requires annual removal of accumulated pollutants.

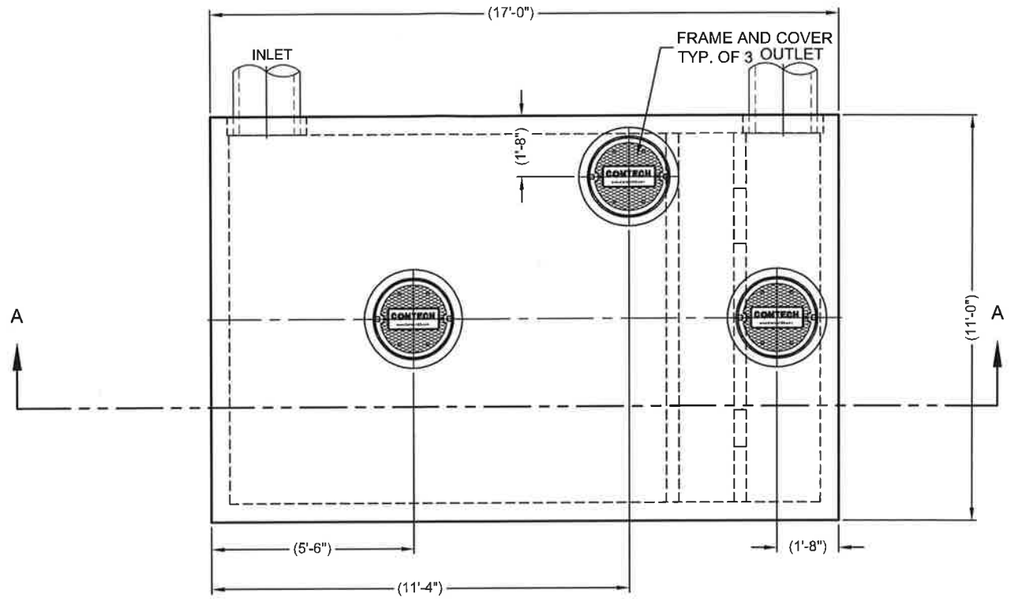
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Sincerely,

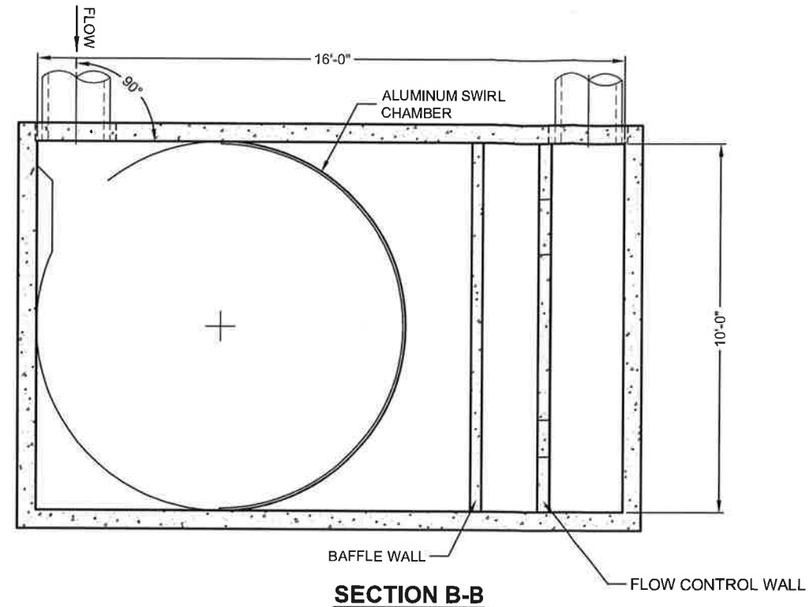
Andrew Brown, E.I.T.
Stormwater Design Engineer

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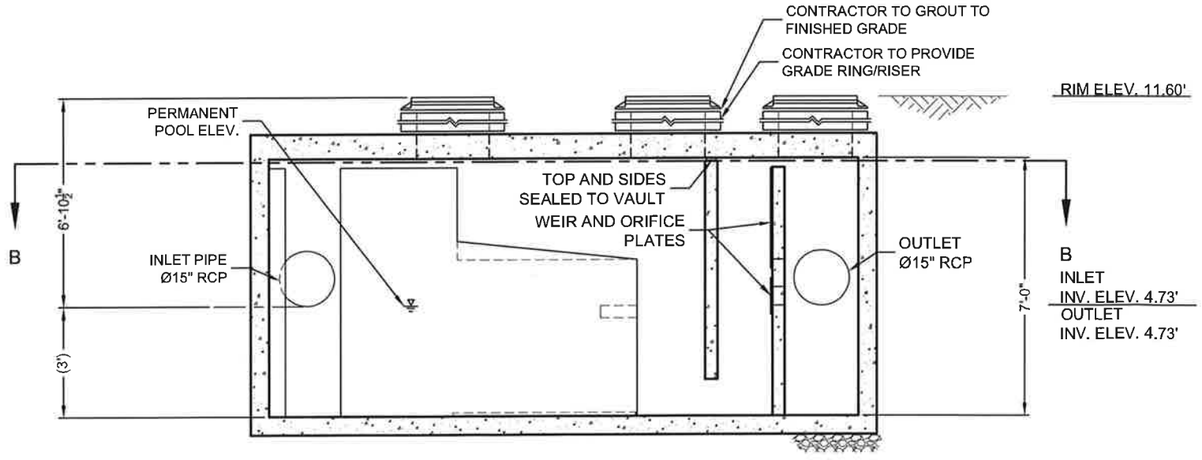
605 Global Way, Suite 113, Linthicum, MD 21090
Toll-free: 866.740.3318 Fax: 866.376.8511



PLAN VIEW



SECTION B-B



SECTION A-A

- BYPASS STRUCTURE INFORMATION -

BYPASS STRUCTURE = 6.0' DIA.
BYPASS WEIR CREST LENGTH = 6.0'
BYPASS WEIR CREST ELEVATION = 7.02'

- NOT SUPPLIED BY CONTECH ENGINEERED SOLUTIONS LLC -

MATERIALS LIST - PROVIDED BY CONTECH

COUNT	DESCRIPTION	INSTALLED BY
1	ALUMINUM SWIRL CHAMBER	CONTECH
1	ALUMINUM WEIR PLATE	CONTECH
1	ALUMINUM ORIFICE PLATE	CONTECH
1	SWIRL CHAMBER SEALANT	CONTECH
1	SEALANT FOR JOINTS	CONTRACTOR
3	Ø24" x 4" FRAME AND COVER	CONTRACTOR

SITE DESIGN DATA

WATER QUALITY FLOW RATE	6.93 cfs
PEAK FLOW RATE	OFFLINE
RETURN PERIOD OF PEAK FLOW	N/A

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. VORTECHS WATER QUALITY VAULT SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING EARTH COVER OF 0' - 5', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM
6. ACTUAL GROUNDWATER ELEVATION.
7. WATER SURFACE ELEVATION IN THE VORTECHS SYSTEM IS EXPECTED TO BE AT OR BELOW TOP OF FLOW CONTROL WALL DURING THE DESIGN STORM.
8. GROUND WATER ELEVATION ASSUMED AT INLET PIPE INVERT.

INSTALLATION NOTES

1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE VORTECHS VAULT (LIFTING CLUTCHES PROVIDED).
3. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL VAULT JOINTS AND ASSEMBLE VAULT.
4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
5. CONTRACTOR TO PROVIDE ANY EXTERNAL BYPASS VAULTS REQUIRED FOR OFFLINE LAYOUT (UNLESS OTHERWISE SPECIFIED.
6. CONTRACTOR TO PROVIDE AND INSTALL MANHOLE RISERS, GRADE RINGS OR BLOCK REQUIRED BETWEEN THE TOP OF THE VORTECHS SYSTEM AND THE BASE OF THE MANHOLE FRAMES. TOP SLAB OPENING DIAMETER MAY BE DIFFERENT FROM THOSE SHOWN.

STRUCTURE WEIGHT

APPROXIMATE HEAVIEST PICK = 56,000 LBS.

CONTECH **PROPOSAL** DRAWING

Vortechs®

THIS PRODUCT MAY BE PROTECTED BY THE FOLLOWING U.S. PATENT: 5,759,415; RELATED FOREIGN PATENTS.

CIL
LS/LS

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MARK	DATE	REVISION DESCRIPTION	BY
1	2/29/15	UPDATED SITE DESIGNATION AND ELEV.	TAB

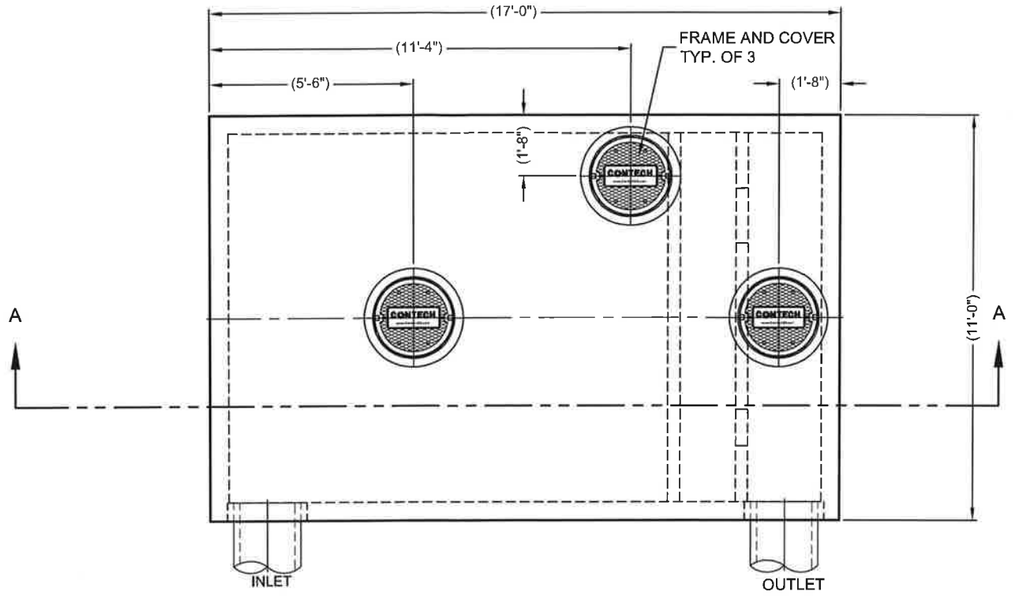
Vortechs 11000 - 517619-240
Holtec Technology Center, LLC
Camden, NJ
SITE DESIGNATION: WQU-110A

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
9026 Corporate Circle Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX
Vortechs®

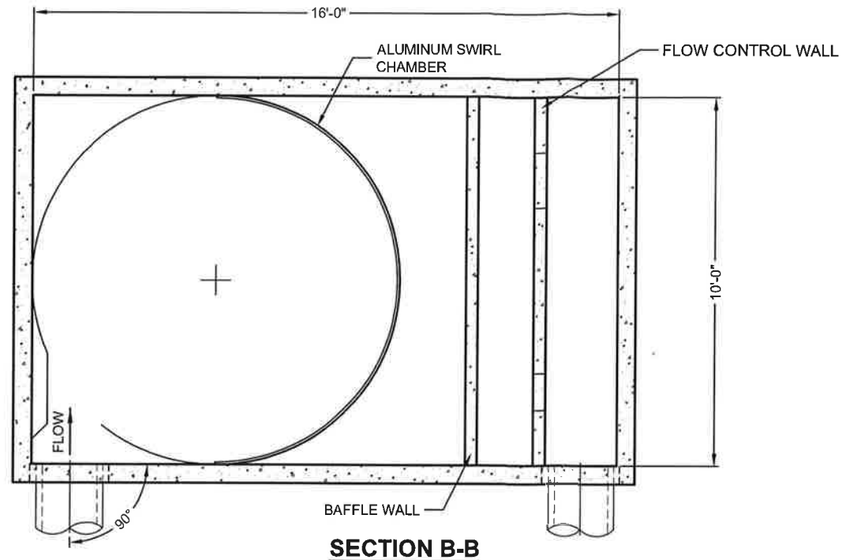
THIS PRODUCT MAY BE PROTECTED BY THE FOLLOWING U.S. PATENTS: 5,759,415; RELATED FOREIGN PATENTS.

DATE: 4/16/15
DESIGNED: ####
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CHECKED:
APPROVED:
PROJECT NUMBER: 517619
SHEET: 1 OF #

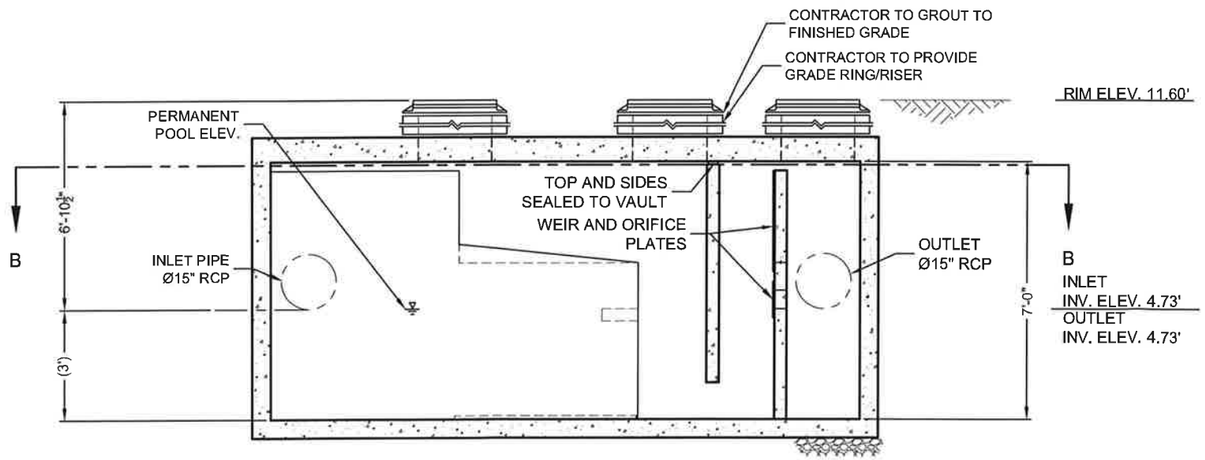
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PLAN VIEW



SECTION B-B



SECTION A-A

- BYPASS STRUCTURE INFORMATION -

BYPASS STRUCTURE = 6.0' DIA.
BYPASS WEIR CREST LENGTH = 6.0'
BYPASS WEIR CREST ELEVATION = 7.02'

- NOT SUPPLIED BY CONTECH ENGINEERED SOLUTIONS LLC -

MATERIALS LIST - PROVIDED BY CONTECH

COUNT	DESCRIPTION	INSTALLED BY
1	ALUMINUM SWIRL CHAMBER	CONTECH
1	ALUMINUM WEIR PLATE	CONTECH
1	ALUMINUM ORIFICE PLATE	CONTECH
1	SWIRL CHAMBER SEALANT	CONTECH
1	SEALANT FOR JOINTS	CONTRACTOR
3	Ø24" x 4" FRAME AND COVER	CONTRACTOR

SITE DESIGN DATA

WATER QUALITY FLOW RATE	6.93 cfs
PEAK FLOW RATE	OFFLINE
RETURN PERIOD OF PEAK FLOW	N/A

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
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STRUCTURE WEIGHT

APPROXIMATE HEAVIEST PICK = 56,000 LBS.

Vortechs®

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CONTECH
PROPOSAL
DRAWING

GIL
RS/RS

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MARK	DATE	REVISION DESCRIPTION	TAB	BY
1	4/29/15	UPDATE SITE DESIGNATION AND ELEV.		

Vortechs 11000 - 517619-250
Holtec Technology Center, LLC
Camden, NJ
SITE DESIGNATION: WQU-110B

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

Vortechs®

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DATE: 4/16/15
DESIGNED: #### DRAWN: TAB
CHECKED: APPROVED:
PROJECT NUMBER: 517619
SHEET: 1 OF #

\\AD.CONTECH-CPI.COM\ROOT\WERLIN\PROJECTACTIVE\517619\517619-250-VORTECHS\DRAWINGS\PROPOSAL\PRE-517619-250-WQU121B-PRO-A.DWG 4/29/2015 9:18 AM

VORTECHS SYSTEM® FLOW CALCULATIONS
HOLTEC TECHNOLOGY CENTER
CAMDEN, NJ
MODEL NAME VORTECHS 11000
SITE DESIGNATION WQU-110A

CONTECH ENGINEERED SOLUTIONS

Vortechs Orifice
Cd = 0.56
A (ft^2) = 0.65
Crest Elevation (ft) = 4.81

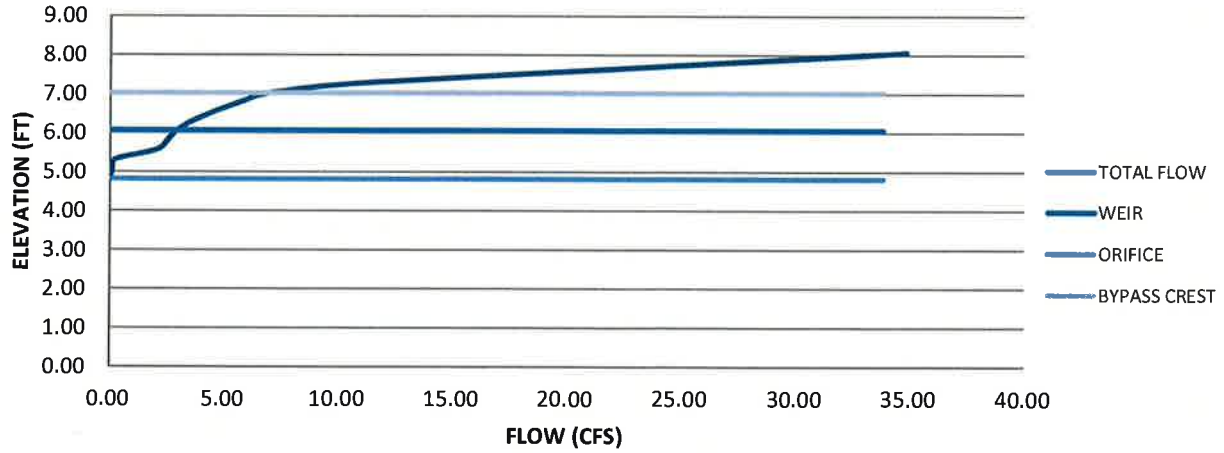
Vortechs Weir
Cd = 3.37
Weir Crest Length (ft) = 0.92
Crest Elevation (ft) = 6.06

Bypass Weir
Cd = 3.3
Crest Length (ft) = 6
Crest Elev. (ft) = 7.02

Head (ft)	Elevation (ft)	Orifice Flow (cfs)	Weir Flow (cfs)	Bypass Flow (cfs)	Total Flow (cfs)
0.00	4.81	0.00	0.00	0.00	0.00
0.25	5.06	0.08	0.00	0.00	0.08
0.50	5.31	0.23	0.00	0.00	0.23
0.75	5.56	2.05	0.00	0.00	2.05
1.00	5.81	2.51	0.00	0.00	2.51
1.25	6.06	2.90	0.00	0.00	2.90
1.50	6.31	3.24	0.39	0.00	3.63
1.75	6.56	3.55	1.10	0.00	4.65
2.00	6.81	3.84	2.01	0.00	5.85
2.21	7.02	4.06	2.90	0.00	6.96
2.46	7.27	4.31	4.11	2.48	10.89
3.25	8.06	5.02	8.76	21.06	34.85
2.20	7.01	4.05	2.88	0.00	6.93
2.71	8.07	4.78	8.80	21.27	34.85

Calculated by: TAB | 4/16/15

VORTECHS STAGE DISCHARGE CURVE



VORTECHS SYSTEM® FLOW CALCULATIONS
HOLTEC TECHNOLOGY CENTER
CAMDEN, NJ
MODEL NAME VORTECHS 11000
SITE DESIGNATION WQU-110B

CONTECH ENGINEERED SOLUTIONS

Vortechs Orifice
Cd = 0.56
A (ft^2) = 0.65
Crest Elevation (ft) = 4.81

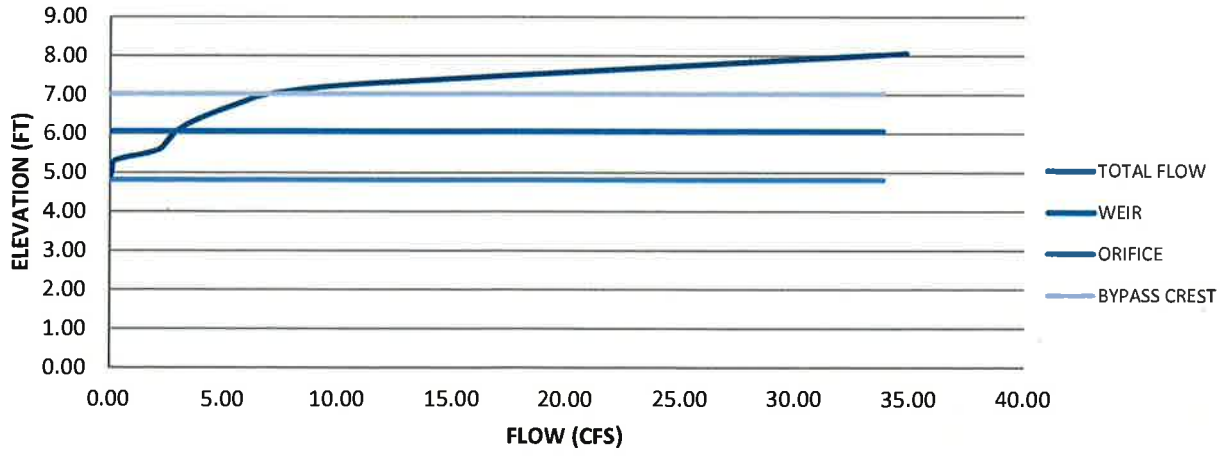
Vortechs Weir
Cd = 3.37
Weir Crest Length (ft) = 0.92
Crest Elevation (ft) = 6.06

Bypass Weir
Cd = 3.3
Crest Length (ft) = 6
Crest Elev. (ft) = 7.02

Head (ft)	Elevation (ft)	Orifice Flow (cfs)	Weir Flow (cfs)	Bypass Flow (cfs)	Total Flow (cfs)
0.00	4.81	0.00	0.00	0.00	0.00
0.25	5.06	0.08	0.00	0.00	0.08
0.50	5.31	0.23	0.00	0.00	0.23
0.75	5.56	2.05	0.00	0.00	2.05
1.00	5.81	2.51	0.00	0.00	2.51
1.25	6.06	2.90	0.00	0.00	2.90
1.50	6.31	3.24	0.39	0.00	3.63
1.75	6.56	3.55	1.10	0.00	4.65
2.00	6.81	3.84	2.01	0.00	5.85
2.21	7.02	4.06	2.90	0.00	6.96
2.46	7.27	4.31	4.11	2.48	10.89
3.25	8.06	5.02	8.76	21.06	34.85
2.20	7.01	4.05	2.88	0.00	6.93
2.71	8.07	4.78	8.80	21.27	34.85

Calculated by: TAB | 4/16/15

VORTECHS STAGE DISCHARGE CURVE



CONTECH ENGINEERED SOLUTIONS

Sizing Summary

Holtec Technology Center, LLC
Camden, NJ

Information provided by Engineer (T&M Associates):

- Total contributing area = 5.60 acres
- WQ Flowrate = 16.76 cfs
- Contributing Inlets = 122 through 130
- Presiding agency = NJDEP

Sizing Summary:

The CONTECH Engineered Solutions Vortechs® stormwater treatment system is a hydrodynamic separator designed to enhance gravitational separation of floating and settleable materials from stormwater flows. Stormwater flows enter the unit tangentially to the grit chamber, which promotes a gentle swirling motion. As stormwater circles within the grit chamber, pollutants migrate toward the center of the unit where velocities are the lowest. The majority of settleable solids are left behind as stormwater exits the swirl chamber. Stormwater flows then are directed below a floatables baffle wall, where buoyant debris and hydrocarbons are removed. The Vortechs system is NJCAT verified and as a result has received an interim certification from the NJDEP for 50% TSS removal.

For this project the Vortechs system was designed to treat the 2004 NJDEP water quality design storm – a two-hour, variable distribution storm, with a rainfall depth of 1.25" inches. The engineer of record modeled the water quality design storm runoff, and the peak water quality flow rate was determined to be 16.76 cfs.

Water Quality Design Storm Peak Runoff Rate (cfs)	Two Vortechs Model VX 16000 In Parallel Water Quality Treatment Flow Rate (cfs)
16.76	20.20

Maintenance:

Like any stormwater best management practice, the Vortechs system requires regular inspection and maintenance to ensure optimal performance. Maintenance frequency will be driven by site conditions. Quarterly visual inspections are recommended, at which time the accumulation of pollutants can be determined. On average, the Vortechs system requires annual removal of accumulated pollutants.

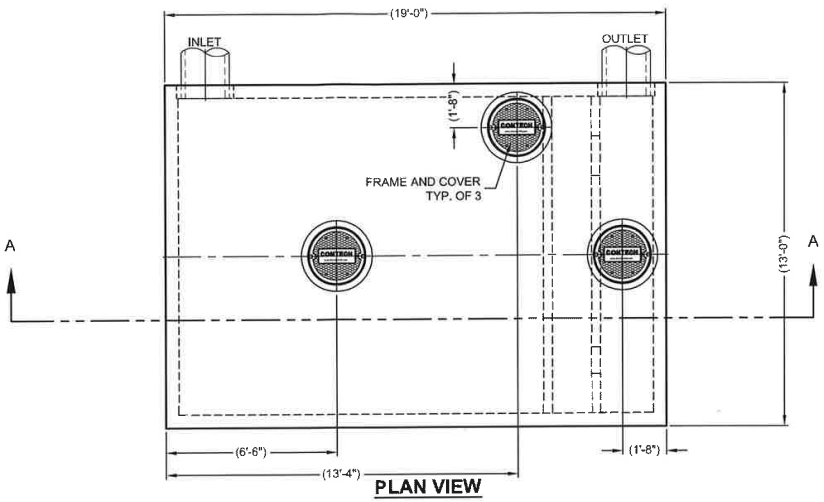
Thank you for the opportunity to present this information to you and your client.

Sincerely,

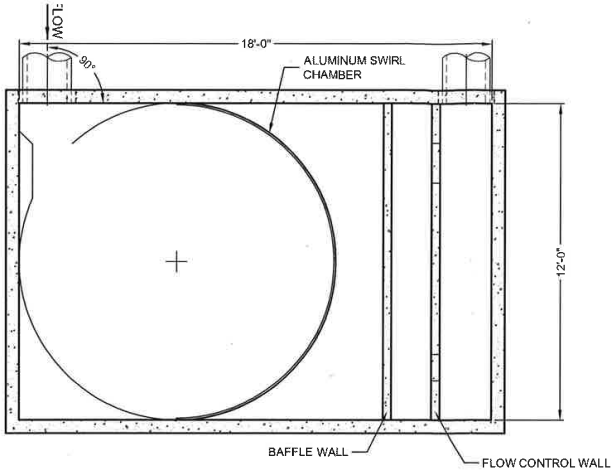
Andrew Brown, E.I.T.
Stormwater Design Engineer

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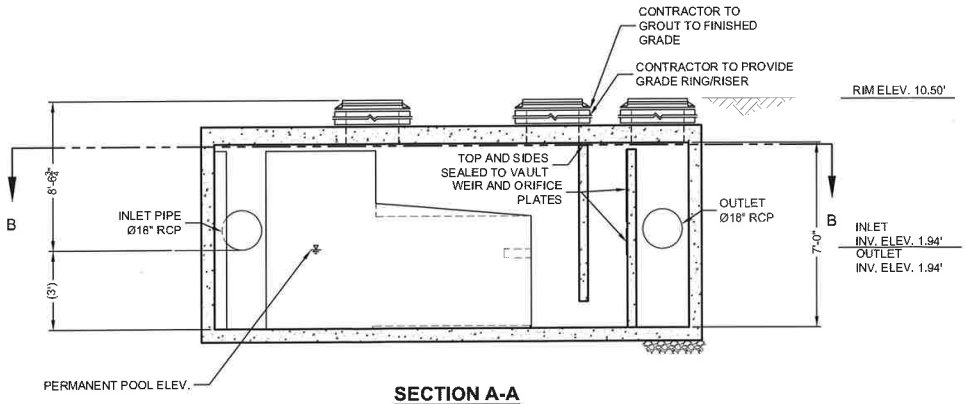
605 Global Way, Suite 113, Linthicum, MD 21090
Toll-free: 866.740.3318 Fax: 866.376.8511



PLAN VIEW



SECTION B-B



SECTION A-A

MATERIALS LIST - PROVIDED BY CONTECH

COUNT	DESCRIPTION	INSTALLED BY
1	ALUMINUM SWIRL CHAMBER	CONTECH
1	ALUMINUM WEIR PLATE	CONTECH
1	ALUMINUM ORIFICE PLATE	CONTECH
1	SWIRL CHAMBER SEALANT	CONTECH
1	SEALANT FOR JOINTS	CONTRACTOR
3	Ø24" x 4" FRAME AND COVER	CONTRACTOR

SITE DESIGN DATA

WATER QUALITY FLOW RATE	8.38 cfs
PEAK FLOW RATE	OFFLINE
RETURN PERIOD OF PEAK FLOW	N/A

GENERAL NOTES

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2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. VORTECHS WATER QUALITY VAULT SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
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8. GROUND WATER ELEVATION ASSUMED AT INLET PIPE INVERT.

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STRUCTURE WEIGHT

APPROXIMATE HEAVIEST PICK = 59,500 LBS.

- BYPASS STRUCTURE INFORMATION -

BYPASS STRUCTURE = 6' DIA.
BYPASS WEIR CREST LENGTH = 6'
BYPASS WEIR CREST ELEVATION = 4.18'

- NOT SUPPLIED BY CONTECH CONSTRUCTION PRODUCTS -

Vortechs®

THIS PRODUCT MAY BE PROTECTED BY THE FOLLOWING U.S. PATENT: 5,759,415; RELATED FOREIGN PATENTS.

CONTECH **PROPOSAL** DRAWING

GIL
LS/LS

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MARK	DATE	REVISION DESCRIPTION	BY

Vortechs 16000 - 517619-260
Holtec Technology Center, LLC
Camden, NJ
SITE DESIGNATION: WQU-121A

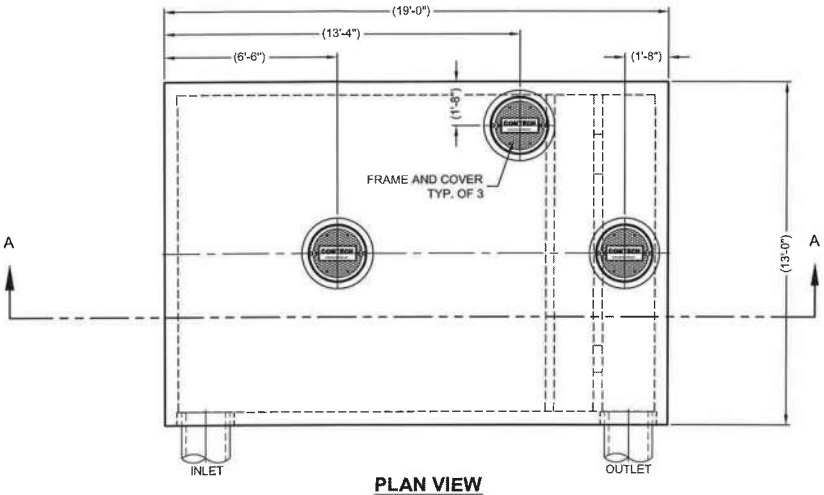
CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
800.338.1122 513.645.7000 Send Orders: OH 45069
8026 Corporate Park Dr., Suite 400 513.645.7993 FAX

Vortechs®

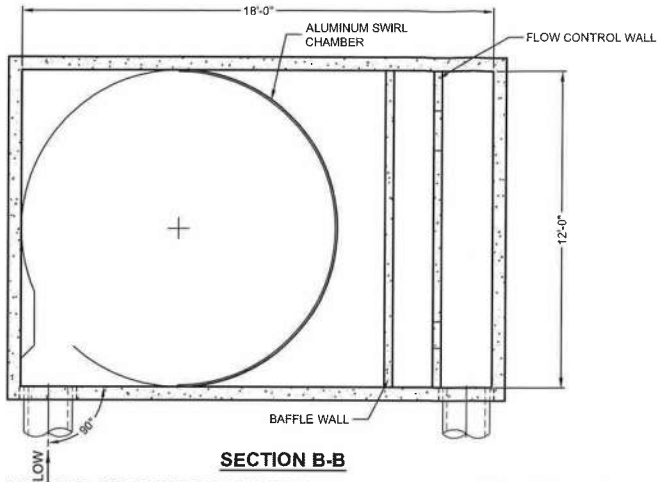
THIS PRODUCT MAY BE PROTECTED BY THE FOLLOWING U.S. PATENT: 5,759,415; RELATED FOREIGN PATENTS.

DATE: 4/28/15
DESIGNED: # DRAWN: TAB
CHECKED: APPROVED:
PROJECT NUMBER: 517619
SHEET: 1 OF #

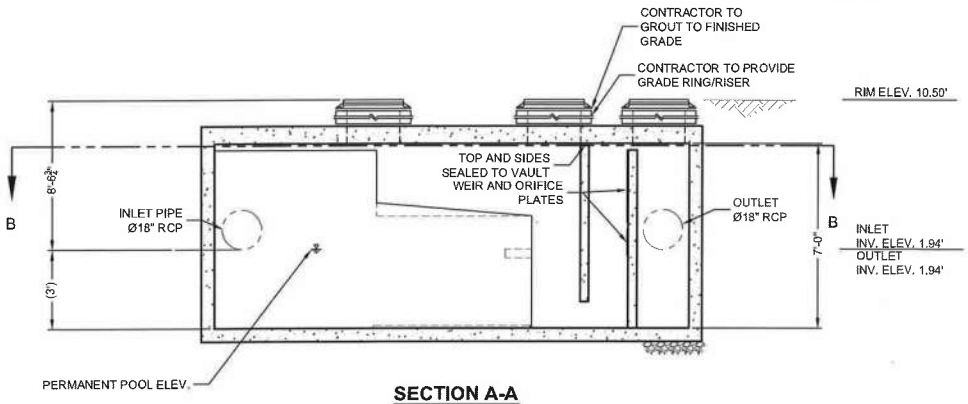
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PLAN VIEW



SECTION B-B



SECTION A-A

MATERIALS LIST - PROVIDED BY CONTECH

COUNT	DESCRIPTION	INSTALLED BY
1	ALUMINUM SWIRL CHAMBER	CONTECH
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1	ALUMINUM ORIFICE PLATE	CONTECH
1	SWIRL CHAMBER SEALANT	CONTECH
1	SEALANT FOR JOINTS	CONTRACTOR
3	Ø24" x 4" FRAME AND COVER	CONTRACTOR

SITE DESIGN DATA

WATER QUALITY FLOW RATE	8.36 cfs
PEAK FLOW RATE	OFFLINE
RETURN PERIOD OF PEAK FLOW	N/A

GENERAL NOTES

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3. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL VAULT JOINTS AND ASSEMBLE VAULT.
4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
5. CONTRACTOR TO PROVIDE ANY EXTERNAL BYPASS VAULTS REQUIRED FOR OFFLINE LAYOUT (UNLESS OTHERWISE SPECIFIED.
6. CONTRACTOR TO PROVIDE AND INSTALL MANHOLE RISERS, GRADE RINGS OR BLOCK REQUIRED BETWEEN THE TOP OF THE VORTECHS SYSTEM AND THE BASE OF THE MANHOLE FRAMES. TOP SLAB OPENING DIAMETER MAY BE DIFFERENT FROM THOSE SHOWN.

STRUCTURE WEIGHT

APPROXIMATE HEAVIEST PICK = 59,500 LBS.

- BYPASS STRUCTURE INFORMATION -

BYPASS STRUCTURE = 6' OIA.
BYPASS WEIR CREST LENGTH = 6'
BYPASS WEIR CREST ELEVATION = 4.18'

- NOT SUPPLIED BY CONTECH CONSTRUCTION PRODUCTS -

Vortechs®

THIS PRODUCT MAY BE PROTECTED BY THE FOLLOWING U.S. PATENT: 6,759,415; RELATED FOREIGN PATENTS.

CONTECH PROPOSAL DRAWING

GIL
RS/RS

The design and information shown on this drawing is provided as a service to the project owner, engineer, architect and contractor by CONTECH Engineered Solutions LLC (CONTECH). Neither this drawing, nor any part hereof, may be used, reproduced or modified in any manner without the prior written consent of CONTECH. Failure to comply is done entirely at the risk of the user. CONTECH expressly disclaims any liability or responsibility for such use.

If discrepancies between the supplied information and these plans are encountered, or are unclear, notify CONTECH immediately for resolution of the details. Contech assumes no responsibility for errors or omissions in these drawings or in electronic information supplied by Contech.

MARK	DATE	REVISION DESCRIPTION	BY

Vortechs 16000 - 517619-270
Holtec Technology Center, LLC
Camden, NJ
SITE DESIGNATION: WQU-121B

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
800.338.1122 513.645.7000 513.645.7993 FAX
Vortechs®
THIS PRODUCT MAY BE PROTECTED BY THE FOLLOWING U.S. PATENT: 6,759,415; RELATED FOREIGN PATENTS.

DATE:	4/28/15
DESIGNED: #	DRAWN: TAB
CHECKED:	APPROVED:
PROJECT NUMBER:	517619
SHEET:	1 OF #

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VORTECHS SYSTEM® FLOW CALCULATIONS
HOLTEC TECHNOLOGY CENTER
CAMDEN, NJ
MODEL NAME VORTECHS 16000
SITE DESIGNATION WQU-121A

CONTECH ENGINEERED SOLUTIONS

Vortechs Orifice
Cd = 0.56
A (ft^2) = 0.89
Crest Elevation (ft) = 2.02

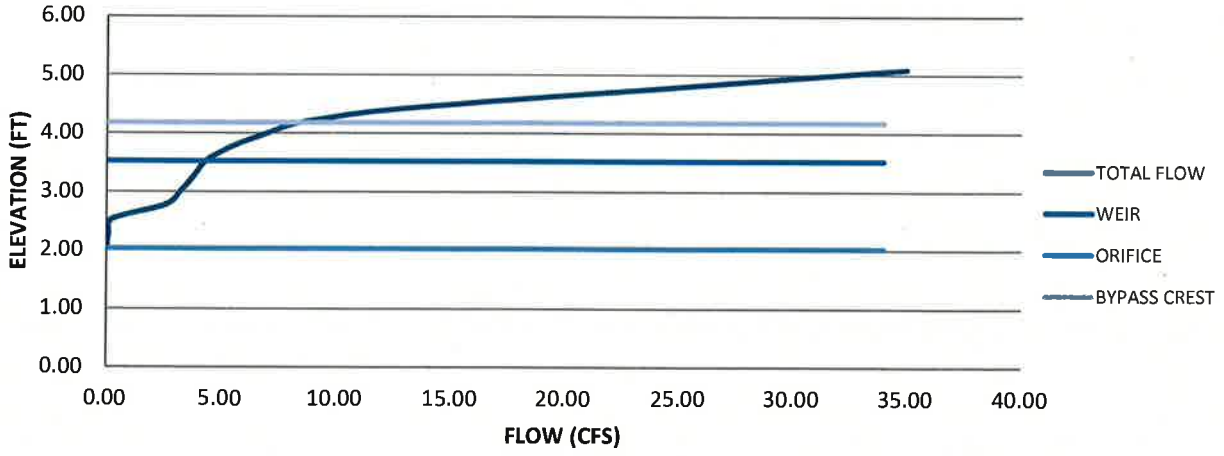
Vortechs Weir
Cd = 3.37
Weir Crest Length (ft) = 1.67
Crest Elevation (ft) = 3.52

Bypass Weir
Cd = 3.3
Crest Length (ft) = 6
Crest Elev. (ft) = 4.18

Head (ft)	Elevation (ft)	Orifice Flow (cfs)	Weir Flow (cfs)	Bypass Flow (cfs)	Total Flow (cfs)
0.00	2.02	0.00	0.00	0.00	0.00
0.25	2.27	0.08	0.00	0.00	0.08
0.50	2.52	0.23	0.00	0.00	0.23
0.75	2.77	2.58	0.00	0.00	2.58
1.00	3.02	3.26	0.00	0.00	3.26
1.25	3.27	3.82	0.00	0.00	3.82
1.50	3.52	4.31	0.00	0.00	4.31
1.75	3.77	4.75	0.70	0.00	5.45
2.00	4.02	5.15	1.99	0.00	7.14
2.16	4.18	5.39	2.99	0.00	8.38
2.41	4.43	5.75	4.86	2.48	13.08
3.07	5.09	6.60	11.08	17.30	34.98
2.16	4.18	5.39	2.99	0.00	8.38
2.41	5.10	6.20	11.19	17.60	34.98

Calculated by: TAB | 4/24/15

VORTECHS STAGE DISCHARGE CURVE



VORTECHS SYSTEM® FLOW CALCULATIONS
HOLTEC TECHNOLOGY CENTER
CAMDEN, NJ
MODEL NAME VORTECHS 16000
SITE DESIGNATION WQU-121B

CONTECH ENGINEERED SOLUTIONS

Vortechs Orifice
Cd = 0.56
A (ft^2) = 0.89
Crest Elevation (ft) = 2.02

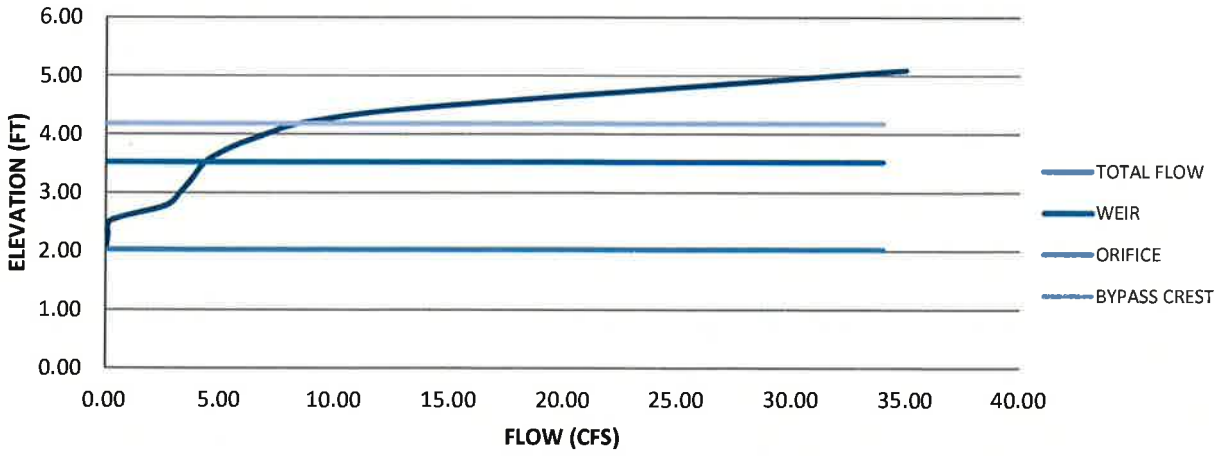
Vortechs Weir
Cd = 3.37
Weir Crest Length (ft) = 1.67
Crest Elevation (ft) = 3.52

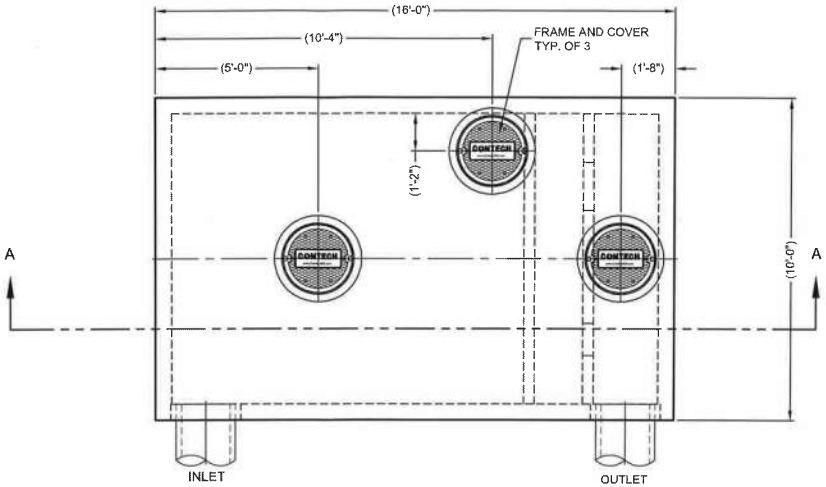
Bypass Weir
Cd = 3.3
Crest Length (ft) = 6
Crest Elev. (ft) = 4.18

Head (ft)	Elevation (ft)	Orifice Flow (cfs)	Weir Flow (cfs)	Bypass Flow (cfs)	Total Flow (cfs)
0.00	2.02	0.00	0.00	0.00	0.00
0.25	2.27	0.08	0.00	0.00	0.08
0.50	2.52	0.23	0.00	0.00	0.23
0.75	2.77	2.58	0.00	0.00	2.58
1.00	3.02	3.26	0.00	0.00	3.26
1.25	3.27	3.82	0.00	0.00	3.82
1.50	3.52	4.31	0.00	0.00	4.31
1.75	3.77	4.75	0.70	0.00	5.45
2.00	4.02	5.15	1.99	0.00	7.14
2.16	4.18	5.39	2.99	0.00	8.38
2.41	4.43	5.75	4.86	2.48	13.08
3.07	5.09	6.60	11.08	17.30	34.98
2.16	4.18	5.39	2.99	0.00	8.38
2.41	5.10	6.20	11.19	17.60	34.98

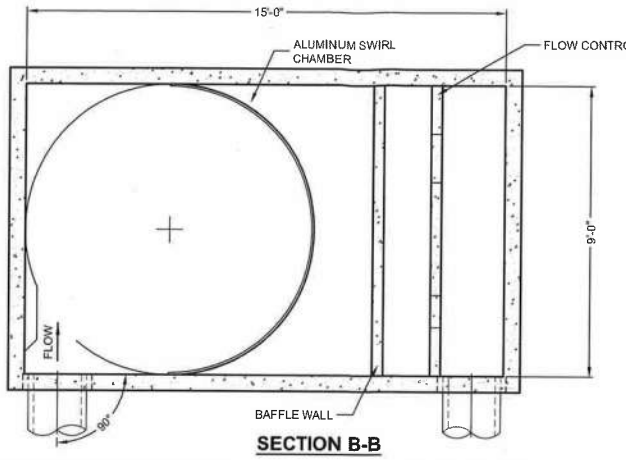
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VORTECHS STAGE DISCHARGE CURVE

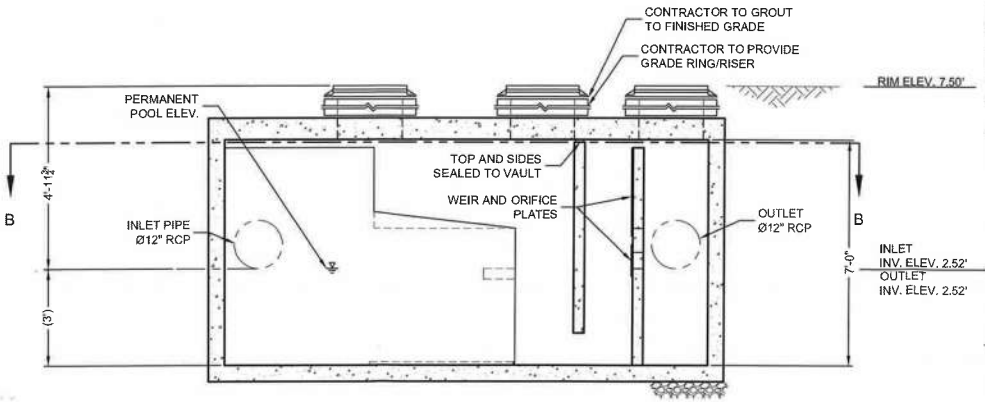




PLAN VIEW



SECTION B-B



SECTION A-A

- BYPASS STRUCTURE INFORMATION -

BYPASS STRUCTURE = 6' DIA.
BYPASS WEIR CREST LENGTH = 6'
BYPASS WEIR CREST ELEVATION = 4.41'

- NOT SUPPLIED BY CONTECH ENGINEERED SOLUTIONS LLC -

MATERIALS LIST - PROVIDED BY CONTECH

COUNT	DESCRIPTION	INSTALLED BY
1	ALUMINUM SWIRL CHAMBER	CONTECH
1	ALUMINUM WEIR PLATE	CONTECH
1	ALUMINUM ORIFICE PLATE	CONTECH
1	SWIRL CHAMBER SEALANT	CONTECH
1	SEALANT FOR JOINTS	CONTRACTOR
3	Ø24" x 4" FRAME AND COVER	CONTRACTOR

SITE DESIGN DATA

WATER QUALITY FLOW RATE	4.97 cfs
PEAK FLOW RATE	OFFLINE
RETURN PERIOD OF PEAK FLOW	N/A

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. VORTECHS WATER QUALITY VAULT SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING EARTH COVER OF 0' - 5', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM
6. ACTUAL GROUNDWATER ELEVATION.
7. WATER SURFACE ELEVATION IN THE VORTECHS SYSTEM IS EXPECTED TO BE AT OR BELOW TOP OF FLOW CONTROL WALL DURING THE DESIGN STORM.
8. GROUND WATER ELEVATION ASSUMED AT INLET PIPE INVERT.

INSTALLATION NOTES

1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE VORTECHS VAULT (LIFTING CLUTCHES PROVIDED).
3. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL VAULT JOINTS AND ASSEMBLE VAULT.
4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
5. CONTRACTOR TO PROVIDE ANY EXTERNAL BYPASS VAULTS REQUIRED FOR OFFLINE LAYOUT (UNLESS OTHERWISE SPECIFIED.
6. CONTRACTOR TO PROVIDE AND INSTALL MANHOLE RISERS, GRADE RINGS OR BLOCK REQUIRED BETWEEN THE TOP OF THE VORTECHS SYSTEM AND THE BASE OF THE MANHOLE FRAMES. TOP SLAB OPENING DIAMETER MAY BE DIFFERENT FROM THOSE SHOWN.

STRUCTURE WEIGHT

APPROXIMATE HEAVIEST PICK = 49,500 LBS.

Vortechs®

THIS PRODUCT MAY BE PROTECTED BY THE FOLLOWING U.S. PATENT: 5,759,415; RELATED FOREIGN PATENTS.

CONTECH
PROPOSAL
DRAWING

GIL
RS/RB

MARK	DATE	REVISION DESCRIPTION	BY

Vortechs 9000 - 517619-220
Holtec Technology Center, LLC
Camden, NJ
SITE DESIGNATION: WQU-201

CONTECH® ENGINEERED SOLUTIONS LLC
www.ContechES.com
800.338.1122 513.645.7000 513.645.7993 FAX 45069
9025 Centre Pointe Drive, Suite 400, West Chester, OH

Vortechs®

THIS PRODUCT MAY BE PROTECTED BY THE FOLLOWING U.S. PATENT: 5,759,415 RELATED FOREIGN PATENTS.

DATE: 4/6/15
DESIGNED: #### DRAWN: TAB
CHECKED: APPROVED:
PROJECT NUMBER: 517619
SHEET: 1 OF #

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CONTECH ENGINEERED SOLUTIONS

VORTECHS SYSTEM® FLOW CALCULATIONS
HOLTEC TECHNOLOGY CENTER
CAMDEN, NJ
MODEL NAME VORTECHS 9000
SITE DESIGNATION WQU-201

Vortechs Orifice
Cd = 0.56
A (ft^2) = 0.60
Crest Elevation (ft) = 2.60

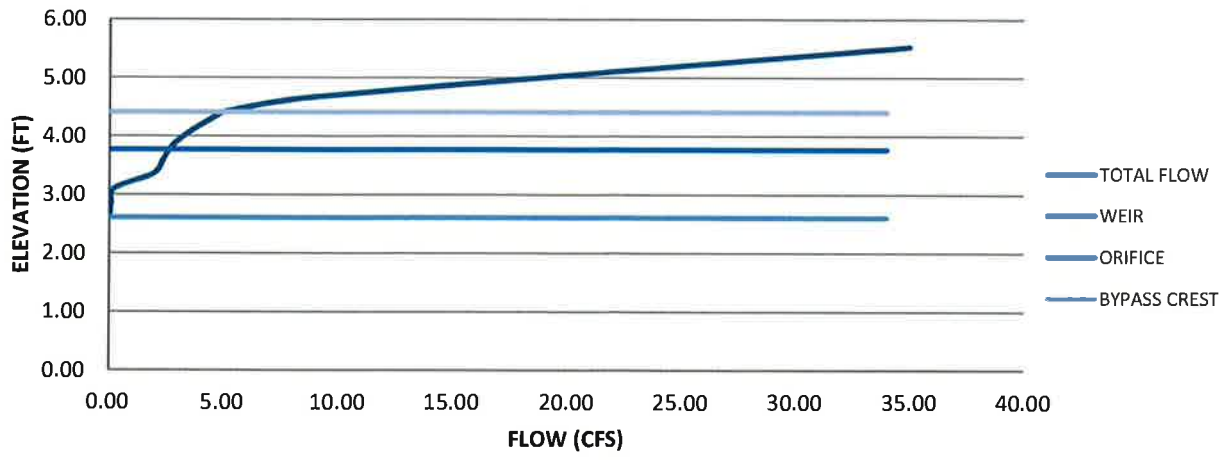
Vortechs Weir
Cd = 3.37
Weir Crest Length (ft) = 0.92
Crest Elevation (ft) = 3.77

Bypass Weir
Cd = 3.3
Crest Length (ft) = 6
Crest Elev. (ft) = 4.41

Head (ft)	Elevation (ft)	Orifice Flow (cfs)	Weir Flow (cfs)	Bypass Flow (cfs)	Total Flow (cfs)
0.00	2.60	0.00	0.00	0.00	0.00
0.25	2.85	0.08	0.00	0.00	0.08
0.50	3.10	0.21	0.00	0.00	0.21
0.75	3.35	1.92	0.00	0.00	1.92
1.00	3.60	2.35	0.00	0.00	2.35
1.25	3.85	2.71	0.07	0.00	2.79
1.50	4.10	3.03	0.60	0.00	3.63
1.75	4.35	3.32	1.38	0.00	4.70
1.81	4.41	3.39	1.59	0.00	4.97
2.06	4.66	3.65	2.60	2.48	8.73
2.92	5.53	4.44	7.21	23.34	34.98
1.81	4.41	3.38	1.59	0.00	4.97
2.51	5.53	4.30	7.24	23.45	34.98

Calculated by: TAB | 4/2/15

VORTECHS STAGE DISCHARGE CURVE



CONTECH ENGINEERED SOLUTIONS

Sizing Summary

Holtec Technology Center, LLC
Camden, NJ

Information provided by Engineer (T&M Associates):

- Total contributing area = 2.43 acres
- WQ Flowrate = 7.70 cfs
- Contributing Inlets = 209A through 209E
- Presiding agency = NJDEP

Sizing Summary:

The CONTECH Engineered Solutions Vortechs® stormwater treatment system is a hydrodynamic separator designed to enhance gravitational separation of floating and settleable materials from stormwater flows. Stormwater flows enter the unit tangentially to the grit chamber, which promotes a gentle swirling motion. As stormwater circles within the grit chamber, pollutants migrate toward the center of the unit where velocities are the lowest. The majority of settleable solids are left behind as stormwater exits the swirl chamber. Stormwater flows then are directed below a floatables baffle wall, where buoyant debris and hydrocarbons are removed. The Vortechs system is NJCAT verified and as a result has received an interim certification from the NJDEP for 50% TSS removal.

For this project the Vortechs system was designed to treat the 2004 NJDEP water quality design storm – a two-hour, variable distribution storm, with a rainfall depth of 1.25" inches. The engineer of record modeled the water quality design storm runoff, and the peak water quality flow rate was determined to be 7.70 cfs.

Water Quality Design Storm Peak Runoff Rate (cfs)	Vortechs Model VX 16000 Water Quality Treatment Flow Rate (cfs)
7.70	10.10

Maintenance:

Like any stormwater best management practice, the Vortechs system requires regular inspection and maintenance to ensure optimal performance. Maintenance frequency will be driven by site conditions. Quarterly visual inspections are recommended, at which time the accumulation of pollutants can be determined. On average, the Vortechs system requires annual removal of accumulated pollutants.

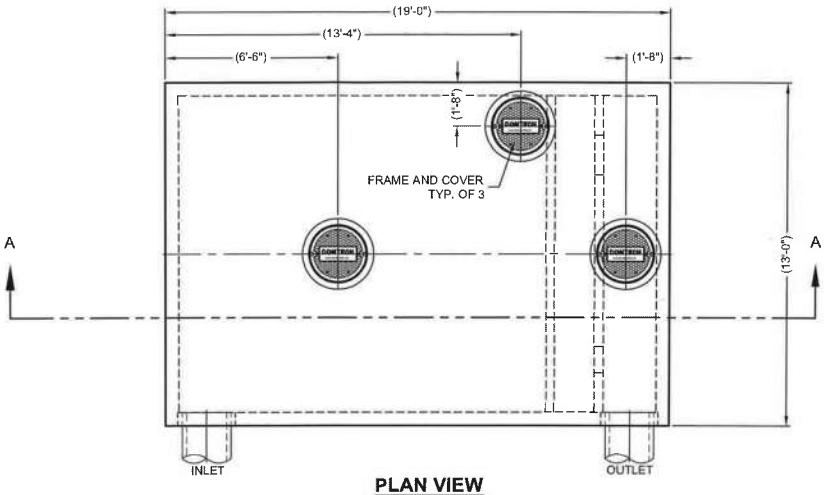
Thank you for the opportunity to present this information to you and your client.

Sincerely,

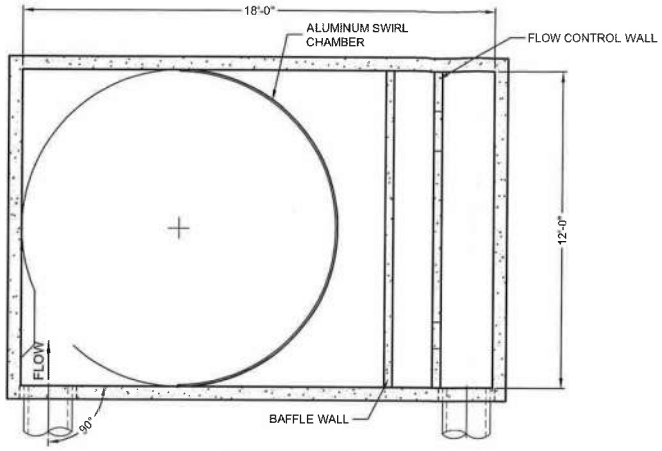
Andrew Brown, E.I.T.
Stormwater Design Engineer

©2015 CONTECH Engineered Solutions

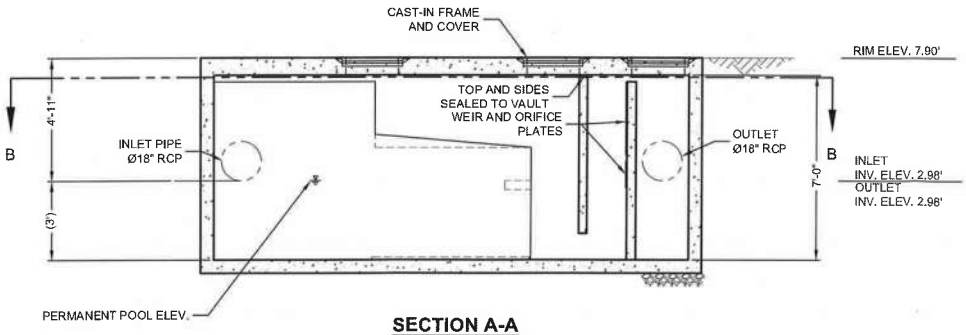
605 Global Way, Suite 113, Linthicum, MD 21090
Toll-free: 866.740.3318 Fax: 866.376.8511



PLAN VIEW



SECTION B-B



SECTION A-A

- BYPASS STRUCTURE INFORMATION -

BYPASS STRUCTURE = 8' DIA.
BYPASS WEIR CREST LENGTH = 8'
BYPASS WEIR CREST ELEVATION = 5.10'

- NOT SUPPLIED BY CONTECH CONSTRUCTION PRODUCTS -

MATERIALS LIST - PROVIDED BY CONTECH

COUNT	DESCRIPTION	INSTALLED BY
1	ALUMINUM SWIRL CHAMBER	CONTECH
1	ALUMINUM WEIR PLATE	CONTECH
1	ALUMINUM ORIFICE PLATE	CONTECH
1	SWIRL CHAMBER SEALANT	CONTECH
1	SEALANT FOR JOINTS	CONTRACTOR
3	Ø24" x 4" FRAME AND COVER	CONTRACTOR

SITE DESIGN DATA

WATER QUALITY FLOW RATE	7.70 cfs
PEAK FLOW RATE	OFFLINE
RETURN PERIOD OF PEAK FLOW	N/A

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. VORTECHS WATER QUALITY VAULT SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING EARTH COVER OF 0' - 5', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM
6. ACTUAL GROUNDWATER ELEVATION.
7. WATER SURFACE ELEVATION IN THE VORTECHS SYSTEM IS EXPECTED TO BE AT OR BELOW TOP OF FLOW CONTROL WALL DURING THE DESIGN STORM.
8. GROUND WATER ELEVATION ASSUMED AT INLET PIPE INVERT.

INSTALLATION NOTES

1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE VORTECHS VAULT (LIFTING CLUTCHES PROVIDED).
3. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL VAULT JOINTS AND ASSEMBLE VAULT.
4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
5. CONTRACTOR TO PROVIDE ANY EXTERNAL BYPASS VAULTS REQUIRED FOR OFFLINE LAYOUT (UNLESS OTHERWISE SPECIFIED.
6. CONTRACTOR TO PROVIDE AND INSTALL MANHOLE RISERS, GRADE RINGS OR BLOCK REDUIRED BETWEEN THE TOP OF THE VORTECHS SYSTEM AND THE BASE OF THE MANHOLE FRAMES, TOP SLAB OPENING DIAMETER MAY BE DIFFERENT FROM THOSE SHOWN.

STRUCTURE WEIGHT
APPROXIMATE HEAVIEST PICK = 59,500 LBS.

Vortechs®
THIS PRODUCT MAY BE PROTECTED BY THE FOLLOWING U.S. PATENT: 5,759,415; RELATED FOREIGN PATENTS.

CONTECH
PROPOSAL
DRAWING

CK.
RS/RS

MARK	DATE	REVISION DESCRIPTION	BY

Vortechs 16000 - 517619-230
Holtec Technology Center, LLC
Camden, NJ
SITE DESIGNATION: WQU-209

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 FAX 513-645-7993
Vortechs®

THIS PROJECT MAY BE PROTECTED BY THE FOLLOWING U.S. PATENT: 5,759,415; RELATED FOREIGN PATENTS.

DATE: 4/8/15
DESIGNED: # | DRAWN: TAB
CHECKED: | APPROVED:
PROJECT NUMBER: 517619
SHEET: 1 OF #

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CONTECH ENGINEERED SOLUTIONS

VORTECHS SYSTEM® FLOW CALCULATIONS
HOLTEC TECHNOLOGY CENTER
CAMDEN, NJ
MODEL NAME VORTECHS 16000
SITE DESIGNATION WQU-209

Vortechs Orifice
Cd = 0.56
A (ft^2) = 0.94
Crest Elevation (ft) = 3.06

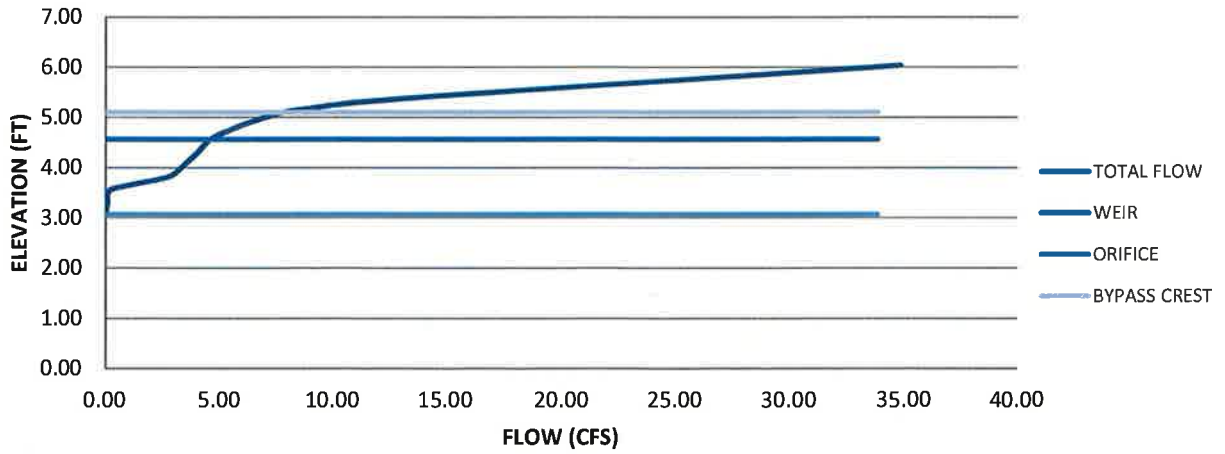
Vortechs Weir
Cd = 3.37
Weir Crest Length (ft) = 1.67
Crest Elevation (ft) = 4.56

Bypass Weir
Cd = 3.3
Crest Length (ft) = 6
Crest Elev. (ft) = 5.10

Head (ft)	Elevation (ft)	Orifice Flow (cfs)	Weir Flow (cfs)	Bypass Flow (cfs)	Total Flow (cfs)
0.00	3.06	0.00	0.00	0.00	0.00
0.25	3.31	0.09	0.00	0.00	0.09
0.50	3.56	0.25	0.00	0.00	0.25
0.75	3.81	2.74	0.00	0.00	2.74
1.00	4.06	3.46	0.00	0.00	3.46
1.25	4.31	4.06	0.00	0.00	4.06
1.50	4.56	4.58	0.00	0.00	4.58
1.75	4.81	5.05	0.70	0.00	5.75
2.00	5.06	5.47	1.99	0.00	7.46
2.04	5.10	5.54	2.21	0.00	7.75
2.29	5.35	5.93	3.93	2.48	12.33
2.97	6.03	6.89	10.04	17.89	34.82
2.03	5.09	5.53	2.17	0.00	7.70
2.32	6.05	6.45	10.16	18.21	34.82

Calculated by: TAB | 4/2/15

VORTECHS STAGE DISCHARGE CURVE



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
401-02B
Bureau of Nonpoint Pollution Control
Division of Water Quality
Post Office Box 420
Trenton, New Jersey 08625-0420
609-633-7021 Fax: 609-777-0432
http://www.state.nj.us/dep/dwq/bnpc_home.htm

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

BOB MARTIN
Commissioner

August 31, 2011

Derek Berg
200 Enterprise Drive
Scarborough, ME 04074

Re: MTD Field Test Certification for the Vortechs Stormwater Treatment System by CONTECH Construction Products, Inc.

Effective Date: September 1, 2011
Expiration Date: December 1, 2016
TSS Removal Rate: 50%

Dear Mr. Berg:

The Stormwater Management Rules at N.J.A.C. 7:8 allow the use of manufactured treatment devices (MTDs) for compliance with the design and performance standards provided that the pollutant removal rates have been verified by New Jersey Corporation for Advanced Technology, NJCAT, and certified by the New Jersey Department of Environmental Protection (NJDEP).

The certification process was revised through the "Transition for Manufactured Treatment Devices," dated July 15, 2011. NJDEP has determined that Vortechs Stormwater Treatment System by CONTECH Construction Products, Inc. is consistent with the criteria under *B. Manufactured Treatment Devices with Final Certifications*. Therefore, **NJDEP certifies the use of the Vortechs Stormwater Treatment System by CONTECH Construction Products, Inc. with a 50% TSS removal rate, provided that the project design is consistent with the following conditions:**

1. The model selected for the project design must be sized in accordance with Table 1 and based on the peak flow of the New Jersey Water Quality Design Storm as specified in N.J.A.C. 7:8-5.

2. The Vortechs Stormwater Treatment System can only be used off-line. Any flow above the New Jersey Water Quality Design Storm must utilize an external bypass around the system.

3. A hydrodynamic separator, such as the Vortechs Stormwater Treatment System, cannot be used in series with another hydrodynamic separator to achieve an enhanced removal rate for total suspended solids (TSS) removal under N.J.A.C. 7:8-5.5.

4. The maintenance plan for the sites using this device shall incorporate at a minimum, the maintenance requirements for the Vortechs Stormwater Treatment System, attached.

Table 1

Vortechs System Model	Grit Chamber Radius (ft)	Grit Chamber Area (ft^2)	Design Flow Rate (cfs)
1000	1.5	7.1	0.63
2000	2.0	12.6	1.12
3000	2.5	19.6	1.75
4000	3.0	28.3	2.5
5000	3.5	38.5	3.4
7000	4.0	50.3	4.5
9000	4.5	63.6	5.7
11000	5.0	78.5	7.0
16000	6.0	113.1	10.1

In addition to the attached, any project with a Stormwater BMP subject to the Stormwater Management Rules, N.J.A.C. 7:8, must include a detailed maintenance plan. The detailed maintenance plan must include all of the items identified in Stormwater Management Rules, N.J.A.C. 7:8-5.8. Such items include, but are not limited to, the list of inspection and maintenance equipment and tools, specific corrective and preventative maintenance tasks, indication of problems in the system, and training of maintenance personnel. Additional information can be found in Chapter 8: Maintenance of the New Jersey Stormwater Best Management Manual.

NJDEP anticipates proposing further adjustments to this process through the readoption of the Stormwater Management Rules. Additional information regarding the implementation of the Stormwater Management Rules N.J.A.C. 7:8 are available at www.njstormwater.org. If you have any questions regarding the above information, please contact Ms. Sandra Blick of my office at (609) 633-7021.

Sincerely,

Ed Frankel, P.P., Acting Bureau Chief
Bureau of Nonpoint Pollution Control

C: Richard S. Magee, NJCAT
Chron file

Center for Environmental Systems
Stevens Institute of Technology
One Castle Point
Hoboken, NJ 07030-0000

April 3, 2023

Gabriel Mahon, Chief
NJDEP
Bureau of Non-Point Pollution Control
Division of Water Quality
401 E. State Street
Mail Code 401-02B, PO Box 420
Trenton, NJ 08625-0420

Dear Mr. Mahon,

Based on my review, evaluation and assessment of the testing conducted on a full-scale, commercially available EcoStream™ BioFiltration System, and observed by William R. Warfel, Boggs Environmental Consultants, Inc., Middletown, MD, the test protocol requirements contained in the "New Jersey Laboratory Testing Protocol to Assess Total Suspended Solids Removal by a Filtration Manufactured Treatment Device" (NJDEP Filtration Protocol, January 14, 2022) were met or exceeded**.** Specifically:

Test Sediment Feed

The mean PSD of the EcoStream Biofiltration System (EcoStream) test sediment complied with the PSD criteria established by the NJDEP Filtration protocol. The Advanced Drainage Systems (ADS) EcoStream removal efficiency test sediment PSD analysis was plotted against the NJDEP removal efficiency test PSD specification. The test sediment was shown to be finer than the sediment blend specified by the protocol (<75µm); the test sediment d_{50} was approximately 68 microns.

Removal Efficiency (RE) Testing

Sixty-two (62) removal efficiency test runs were completed in accordance with the NJDEP test protocol. Twenty-five (25) of the 62 test runs were conducted during removal efficiency testing and 37 tests were conducted during mass loading testing. The target flow rate and influent sediment concentration were 66 gpm and 200 mg/L for the removal efficiency testing. The

EcoStream Biofiltration System achieved a cumulative removal efficiency of 86.2% for runs 1 through 25 (85.4% after the first 10 qualifying runs) at the MTFR of 66 gpm (0.147 cfs).

Sediment Mass Loading Capacity

Mass loading capacity testing was conducted as a continuation of removal efficiency testing. Mass loading test runs were conducted using identical testing procedures and flow rate target as those used in the RE runs; the only change was to increase the target influent concentration to 400 mg/L. Testing concluded after 37 mass loading test runs. The EcoStream Biofiltration System achieved a cumulative mass removal efficiency of 86.0% over the 62 trials.

The total influent mass loaded through Run 62 was 314.9 lbs and the total mass captured by the EcoStream was 270.8 lbs. This is equivalent to a sediment mass loading capacity of 16.93 lbs/ft^2 of effective filtration treatment area.

No maintenance was performed on the test system during the testing program.

Scour Testing

The ADS Biofiltration System is designed for online installation. Scour testing at 131 gpm demonstrated an average adjusted effluent concentration of <20mg/L qualifying the MTD for influent flow up to 198% MTFR.

Sincerely,



Richard S. Magee, Sc.D., P.E., BCEE
Executive Director

Introduction

- Manufacturer – Advanced Drainage Systems, Inc, 4640 Trueman Blvd, Hilliard, OH 43026 Website: https://www.ads-pipe.com Phone: 800-229-7283.
- MTD EcoStream™ Biofiltration System verified models are shown in **Table A-1**.
- TSS Removal Rate – 80%
- On-line installation up to 198% MTFR

Detailed Specification

- NJDEP sizing tables and physical dimensions of EcoStream™ Biofiltration System verified models are attached (**Table A-1**). These sizing tables are valid for NJ following NJDEP Water Quality Design Storm Event of 1.25" in 2 hours (NJAC 7:8-5.5(a)).

- Maximum inflow drainage area
    - The maximum inflow drainage area is governed by the maximum treatment flow rate of each model as presented in **Table A-1**.

- Driving head will vary for a given EcoStream™ model based on the site-specific configuration. The maximum head available until bypass is 32” (from invert out), but the minimum head varies depending on the flow rate through the unit and the cumulative mass captured in the biofiltration cell over time. Design support is given by Advanced Drainage Systems for each project, and site-specific drawings (cut sheets) will be provided that show pipe inverts, finish surface elevation and peak treatment and maximum flow rates through the unit.

- The drawdown flow exits via an effluent pipe at the bottom of the filter bed. A clean filter draws down in approximately 20 minutes.

- See Advanced Drainage Systems EcoStream™ Biofiltration System O&M Guidance Manual for inspection and maintenance procedures: https://www.adspipe.com/resources/documents/46DAA1FC-D53D-4B22-AC03FBEF7310E895

Table A-1 EcoStream™ BioFiltration Model Sizes and New Jersey Treatment Capability

Model	Typical Treatment Cell Dimensions[3] - W x L (ft)	Effective Filtration Treatment Area[1] (EFTA) (ft^2)	Treatment Flow Rate[2] (cfs)	Maximum Allowable Drainage Area[4] (acres)
ES-6	2 x 3	6	**0.055**	**0.169**
ES-12	3 x 4	12	**0.110**	**0.339**
ES-16	4 x 4	16	**0.147**	**0.451**
ES-20	4 x 5	20	**0.184**	**0.564**
ES-24	4 x 6	24	**0.221**	**0.677**
ES-32	4 x 8	32	**0.294**	**0.903**
ES-36	6 x 6	36	**0.331**	**1.016**
ES-40	4 x 10	40	**0.368**	**1.129**
ES-48	4 x 12	48	**0.441**	**1.354**
ES-60	6 x 10	60	**0.551**	**1.693**
ES-72	6 x 12	72	**0.662**	**2.032**
ES-80	8 x 10	80	**0.735**	**2.257**
ES-91	7 x 13	91	**0.836**	**2.568**
ES-96	8 x 12	96	**0.882**	**2.709**
ES-100	10 x 10	100	**0.919**	**2.822**
ES-112	8 x 14	112	**1.029**	**3.160**
ES-120	10 x 12	120	**1.103**	**3.386**
ES-128	8 x 16	128	**1.176**	**3.612**
ES-144	12 x 12	144	**1.323**	**4.063**
ES-160	10 x 16	160	**1.470**	**4.515**
ES-168	12 x 14	168	**1.544**	**4.740**
ES-176	8 x 22	176	**1.618**	**4.966**
ES-225	15 x 15	225	**2.068**	**6.349**
ES-256	16 x 16	256	**2.353**	**7.223**
ES-289	17 x 17	289	**2.656**	**8.155**
ES-324	18 x 18	324	**2.978**	**9.142**
ES-360	18 x 20	360	**3.309**	**10.158**

1. Since the treatment system is a horizontal filter, media surface area (MSA) equals effective sedimentation treatment area (ESTA) equals effective filtration treatment area (EFTA). (ESTA/EFTA is 1.0 for all models.).
2. MTFR is based on 4.125 gpm/ft2 (0.009 cfs/ft^2) of effective filtration treatment area.
3. These are typical dimensions. Models with different treatment cell dimensions are possible.
4. Drainage area is based on 16.925 lb./ft^2 (270.8 lb./16 ft^2) of effective filtration treatment area and the equation in the NJDEP Filtration Protocol Appendix, where drainage area is calculated based on 600 lbs. of mass contributed per acre of drainage area annually.

THE ECOSTREAM BIOFILTER™ IS A BIOFILTRATION STORMWATER TREATMENT TECHONOLOGY THAT RELIES ON PHYSICAL, CHEMICAL AND BIOLOGICAL MECHANISMS TO REMOVE TOTAL SUSPENDED SOLIDS, TOTAL PHOSPHORUS, TOTAL NITROGEN, HEAVY METALS, OIL AND GREASE, TRASH AND BACTERIA.

Model	Vault Size (ft)	Media Filtration Area (sf)	Min Inlet to Outlet Depth[1] (in)	Overflow to Outlet Depth (in)	Design Treatment Rate (cfs)	Bypass Standpipe (in)	Solid Lid Size & Number
ES16B	4 x 4	16	32	32	0.147	6	36 in (1x)
ES24B	4 x 6	24	32	32	0.221	6	36 in (1x)
ES32B	4 x 8	32	32	32	0.294	6	36 in (1x)
ES36B	6 x 6	36	32	32	0.331	6	36 in (1x)
ES40B	4 x 10	40	32	32	0.368	6	36 in (2x)
ES48B	4 x 12	48	32	32	0.441	6	36 in (2x)
ES48B	6 x 8	48	32	32	0.441	6	36 in (1x)
ES60B	6 x 10	60	32	32	0.551	8	36 in (1x)
ES72B	6 x 12	72	32	32	0.662	8	36 in (2x)
ES80B	8 x 10	80	32	32	0.735	8	36 in (1x)
ES96B	8 x 12	96	32	32	0.882	10	36 in (2x)
ES112B	8 x 14	112	32	32	1.029	10	36 in (2x)
ES128B	8 x 16	128	32	32	1.176	10	36 in (2x)

[1] *A min drop of 29" can be used however the design engineer must review the 3" tailwater (up to the beehive bypass) on the inlet pipe to ensure it does not affect the project's overall design.*

NOTES:

- UNDERDRAIN SHOWN IS SCHEMATIC ONLY. FOR DETAILS ON UNDERDRAIN SIZING AND LAYOUT SEE ECOSTREAM INSTALLATION GUIDE FOR DETAILS, KIT NUMBER AND PLACEMENT OPTIONS.

ADS ECOSTREAM SPECIFICATIONS

PRODUCTS

A. INTERNAL COMPONENTS: SHALL BE SUBSTANTIALLY CONSTRUCTED OF RECYCLED POLYETHYLENE OR OTHER THERMOPLASTIC MATERIAL APPROVED BY THE MANUFACTURER

B. FILTER MEDIA: FILTER MEDIA SHALL BE BY ADS AND SHALL CONSIST OF A PROPRIETARY BLEND OF FILTER MEDIA.

C. PRECAST CONCRETE VAULT: DESIGNED FOR H-20 TRAFFIC LOADING AND APPLICABLE SOIL LOADS OR AS OTHERWISE DETERMINED BY A LICENSED PROFESSIONAL ENGINEER. THE MATERIALS AND STRUCTURAL DESIGN OF THE DEVICES SHALL BE PER ASTM C478, ASTM C857 AND ASTM C858.

PERFORMANCE

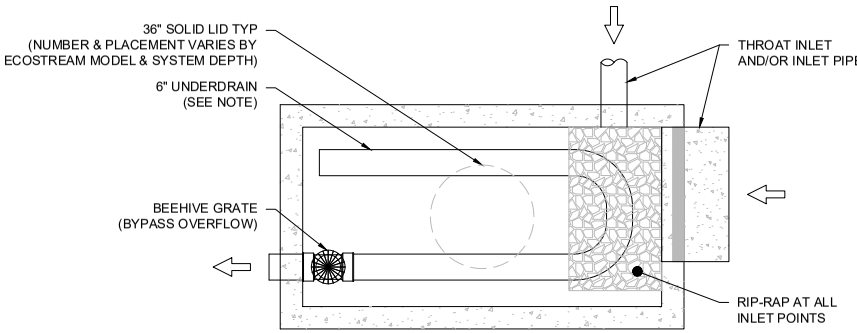
A. THE STORMWATER FILTER SYSTEM SHALL BE AN ONLINE OR OFFLINE DESIGN BASED ON LOCAL REQUIREMENTS CAPABLE OF TREATING 100% OF THE REQUIRED TREATMENT FLOW AT FULL SEDIMENT LOAD CONDITIONS.

B. THE STORMWATER FILTER SYSTEM SHALL HAVE NO MOVING PARTS.

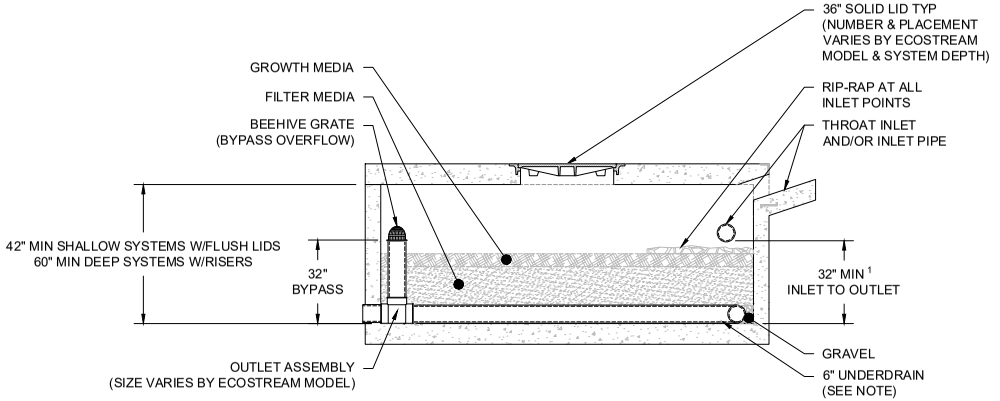
C. THE STORMWATER TREATMENT UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 80% OF SUSPENDED SOLIDS.

ECOSTREAM INSTALLATION NOTES

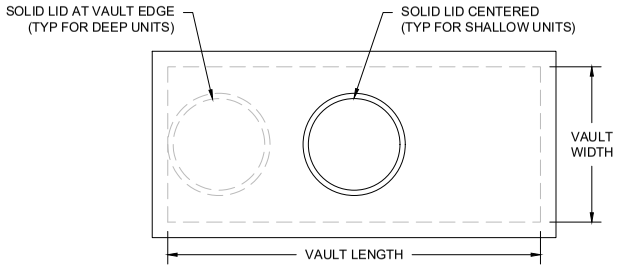
INSTALLATION OF THE STORMWATER TREATMENT UNIT(S) SHALL BE PERFORMED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH INSTRUCTIONS CAN BE OBTAINED BY CALLING ADVANCED DRAINAGE SYSTEMS AT (800) 821-6710 OR BY LOGGING ON TO WWW.ADSPIPE.COM.



ECOSTREAM PLAN VIEW WITH SOLID LID
NOT TO SCALE



ECOSTREAM PROFILE VIEW WITH SOLID LID
NOT TO SCALE



SOLID LID PLACEMENT
SIZE AND NUMBER OF SOLID LIDS VARY BY ECOSTREAM MODEL & SYSTEM DEPTH

ECOSTREAM BIOFILTER
SOLID LID INSTALLATION
BASIC MEDIA

DATE: 09/04/24 | DRAWN: JLM | CHECKED: SMW
DRAWING #: 570-020

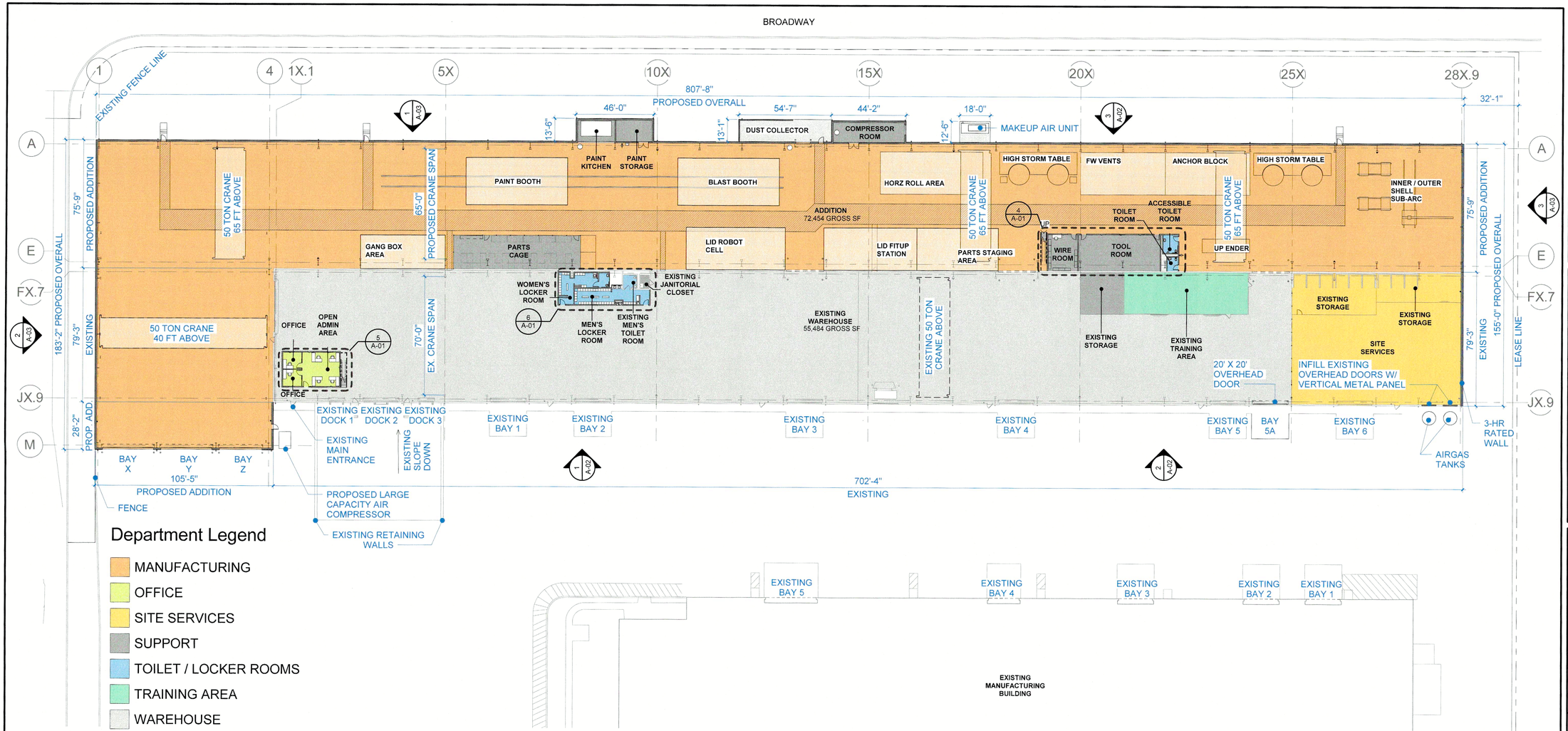
DATE	DWN	CHK
8/14/2025	JLM	AT

EcoStream™ Biofilter
Stormwater Media Filters

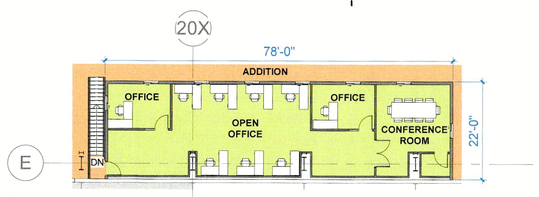
4640 TRUEMAN BLVD
HILLIARD, OH 43026

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADSSTORMTECH UNDER THE DIRECTION OF THE PROJECTS ENGINEER OF RECORD. TO BE USED FOR OTHER PROJECT REPRESENTATIVE. THE DRAWING IS NOT INTENDED FOR USE IN BIDDING OR CONSTRUCTION WITHOUT THE EOR'S PRIOR APPROVAL. EOR SHALL REVIEW THIS DRAWING PRIOR TO BIDDING AND/OR CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE EOR TO ENSURE THAT THE PRODUCT(S) SPECIFIED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

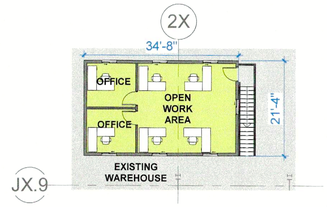
Appendix F:
Drainage Area Plans



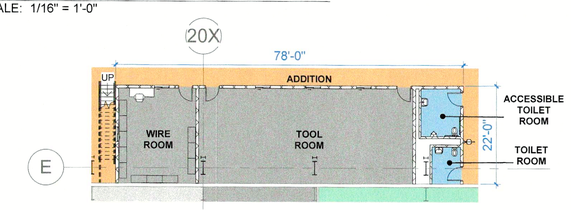
1 PROPOSED OVERALL FLOOR PLAN
SCALE: 1" = 30'-0"



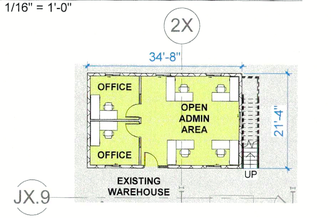
2 ENLARGED MEZZANINE FLOOR PLAN
SCALE: 1/16" = 1'-0"



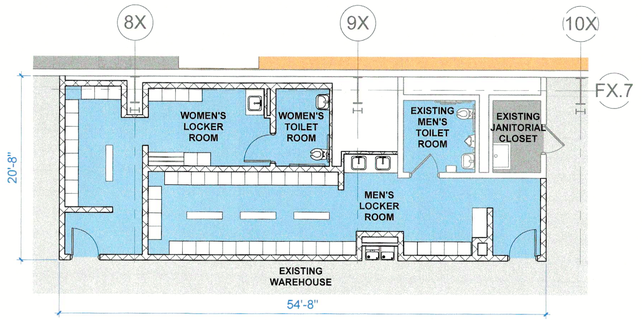
3 ENLARGED MEZZANINE FLOOR PLAN
SCALE: 1/16" = 1'-0"



4 ENLARGED PLAN
SCALE: 1/16" = 1'-0"



5 ENLARGED PLAN
SCALE: 1/16" = 1'-0"



6 ENLARGED TOILET / LOCKER ROOM PLANS
SCALE: 1/8" = 1'-0"

USA Architects
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Registered Architect - New Jersey License No. AI09979

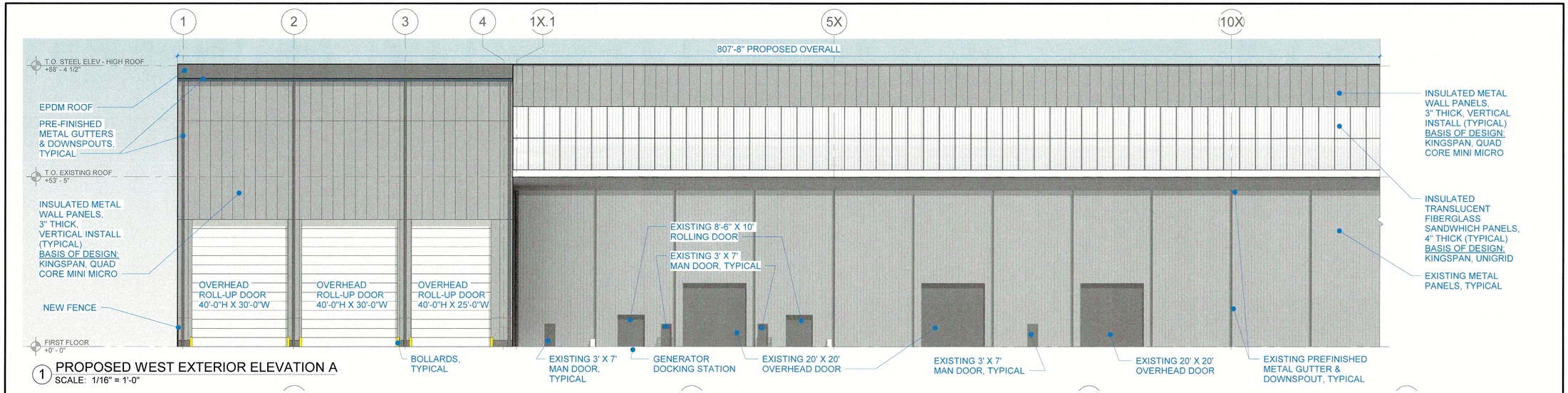
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CAMDEN, CAMDEN COUNTY, NJ 08104

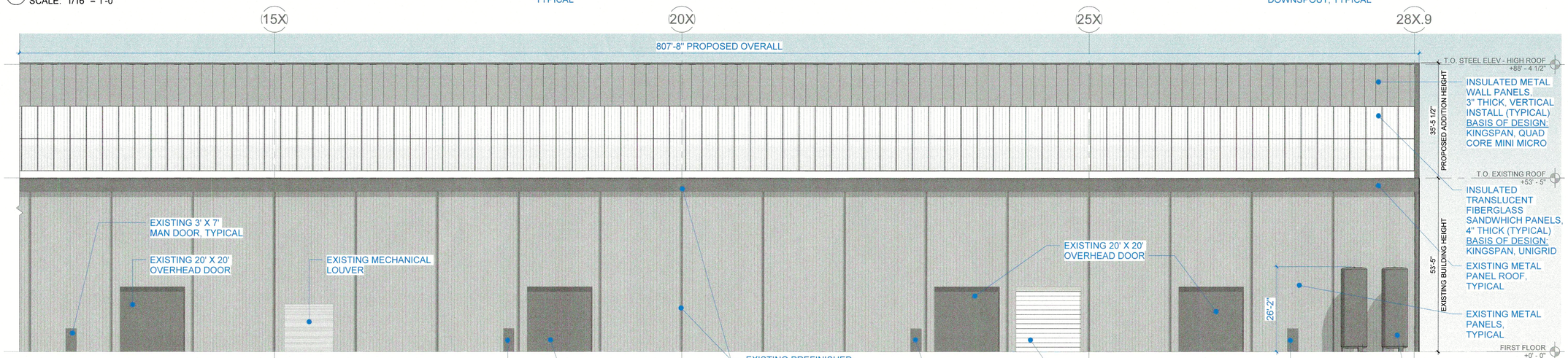
No.	Date	Issue or Revision

Drawing Title
PROPOSED OVERALL FLOOR PLAN

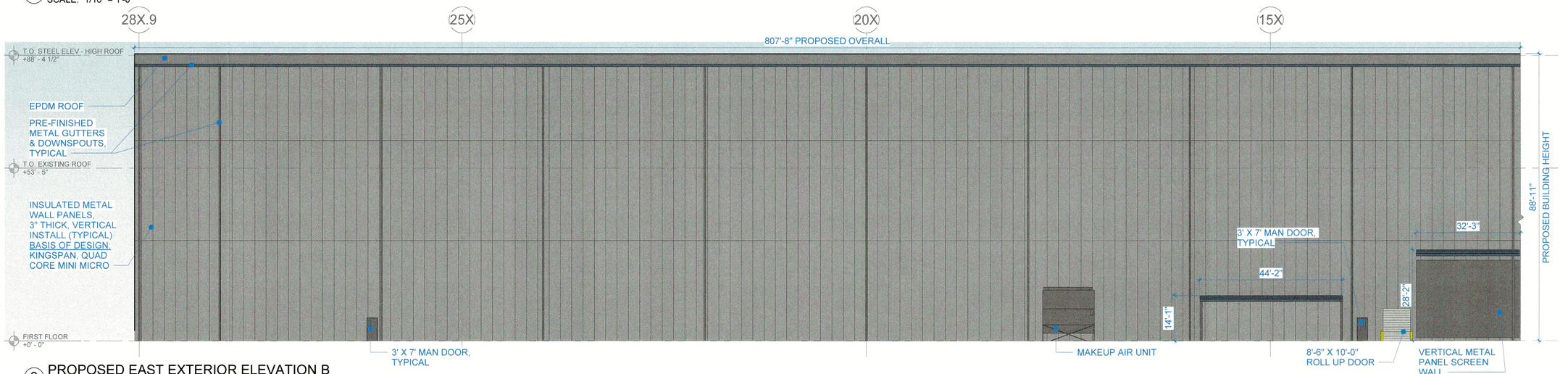
Scale	USA Project No.
As indicated	R2024.0090.00
Drawing Date	Drawing No.
04.20.2026	A-01
Drawn By: KMB	Checked By: MjB



1 PROPOSED WEST EXTERIOR ELEVATION A
SCALE: 1/16" = 1'-0"



2 PROPOSED WEST EXTERIOR ELEVATION B
SCALE: 1/16" = 1'-0"



3 PROPOSED EAST EXTERIOR ELEVATION B
SCALE: 1/16" = 1'-0"

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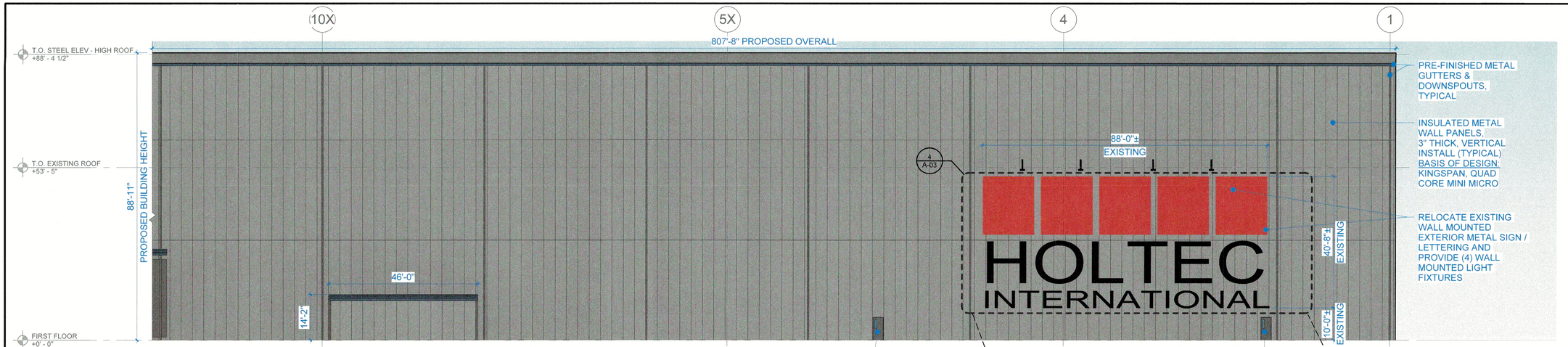
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No.	Date	Issue or Revision

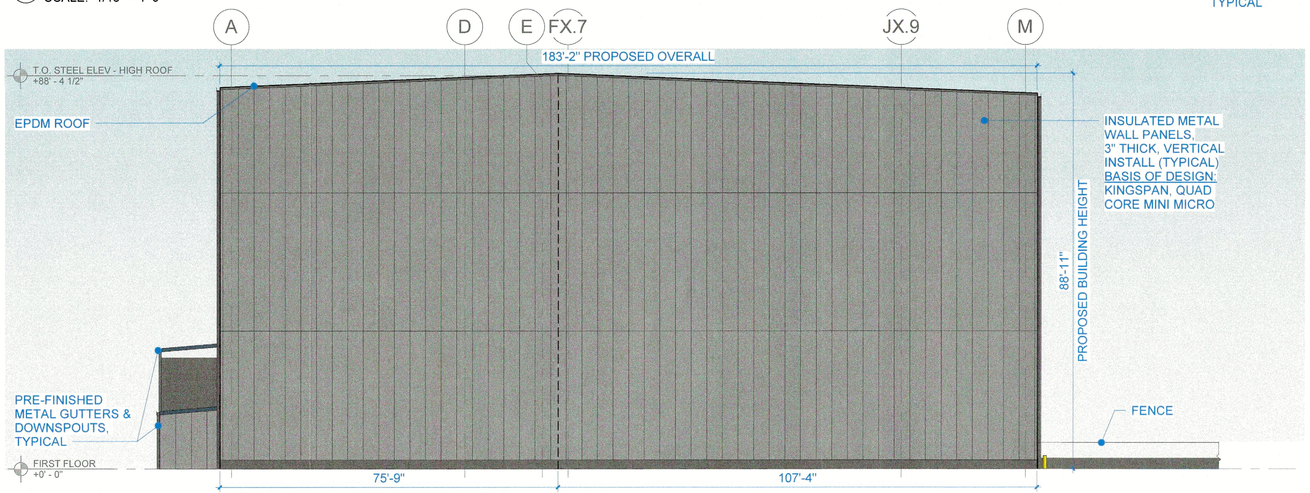
Drawing Title

PROPOSED EXTERIOR ELEVATIONS

Scale	USA Project No.
1/16" = 1'-0"	R2024.0090.00
Drawing Date: 04.20.2026	Drawing No.: A-02
Drawn By: KMB	Checked By: MjB



1 PROPOSED EAST EXTERIOR ELEVATION A
SCALE: 1/16" = 1'-0"



2 PROPOSED NORTH EXTERIOR ELEVATION
SCALE: 1/16" = 1'-0"

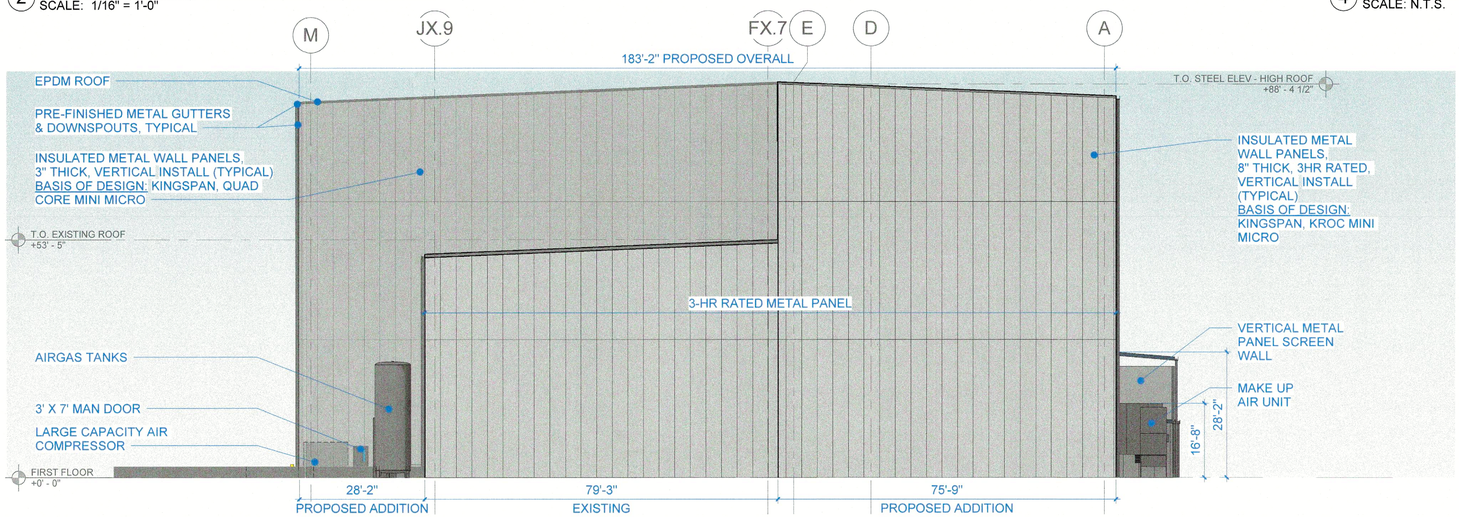


PROVIDE SIMILAR WALL MOUNTED LIGHT FIXTURES ON PROPOSED FACADE LOCATED IN SIMILAR POSITION ABOVE RELOCATED SIGNAGE, TYPICAL FOR 4.

RELOCATE EXISTING WALL MOUNTED EXTERIOR METAL SIGN / LETTERING TO PROPOSED FACADE LOCATED IN SAME POSITION

NOTE:
THIS PHOTO DEPICTS THE EXISTING WALL MOUNTED EXTERIOR METAL SIGN / LETTERING AND 4 EXISTING LIGHT FIXTURES ABOVE USED TO ILLUMINATE THE SIGNAGE.

4 EXISTING EXTERIOR WALL MOUNTED SIGN & LIGHTING ELEVATION
SCALE: N.T.S.



3 PROPOSED SOUTH EXTERIOR ELEVATION
SCALE: 1/16" = 1'-0"

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Registered Architect - New Jersey License No. AI09979

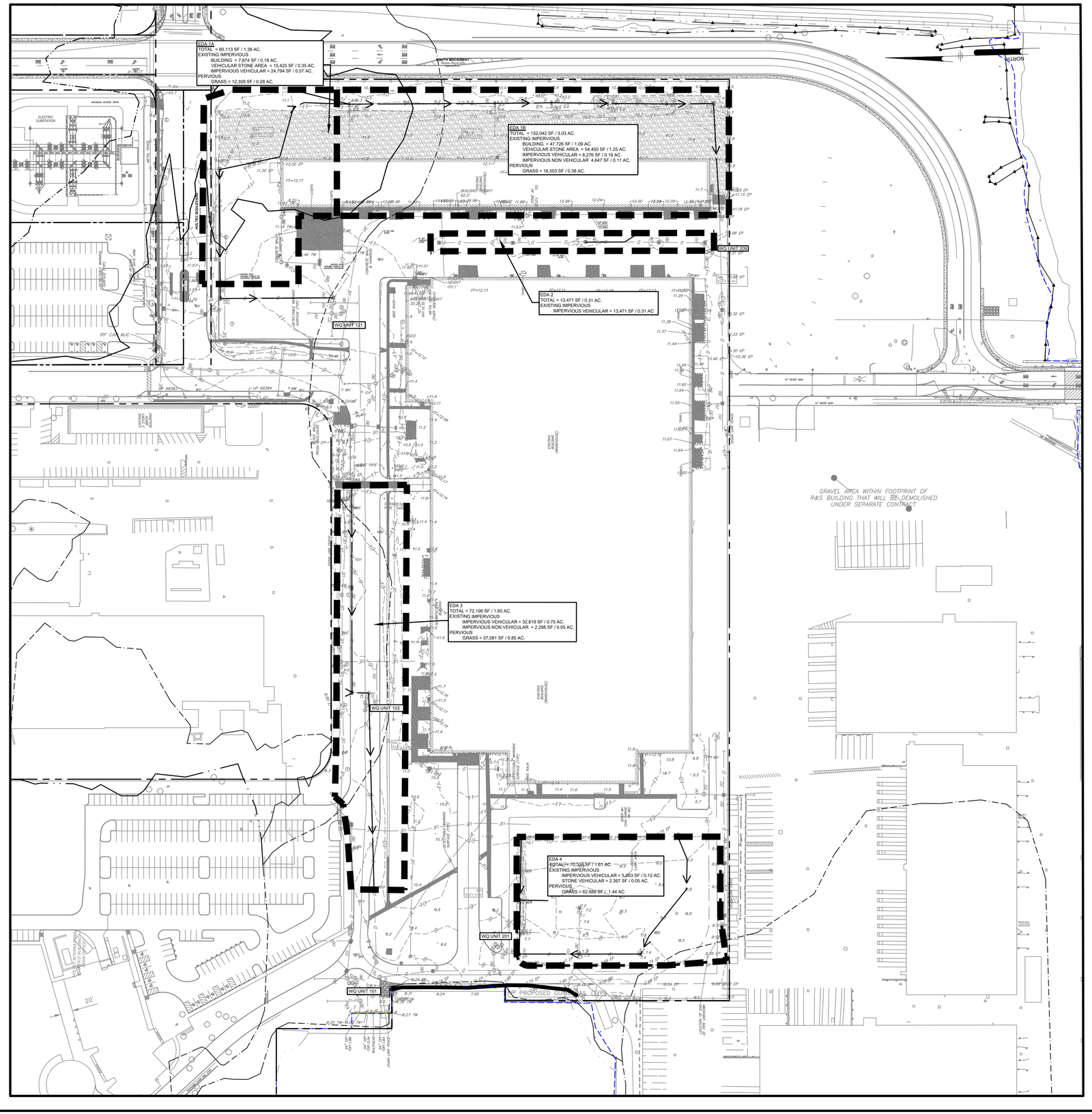
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CAMDEN, CAMDEN COUNTY, NJ 08104

No.	Date	Issue or Revision

Drawing Title
PROPOSED EXTERIOR ELEVATIONS

Scale	USA Project No.
As indicated	R2024.0090.00
Drawing Date	Drawing No.
04.20.2026	A-03
Drawn By: KMB	Checked By: MjB



NOT FOR CONSTRUCTION

U:\Accounts\USATX\USATX24001 - Holtec Warehouse\DESIGN_SHEETS\CS9001.dwg PLOTTED: 4/20/2026 2:09 PM, BY: Bernadette Morris PLOTSTYLE: Pennoni NCS.ctb

Pennoni

NJ COA GA28033300

PENNONI ASSOCIATES INC.
2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8600 F 856.668.8610

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING

BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

PRE-DEVELOPED DRAINAGE AREA PLAN

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

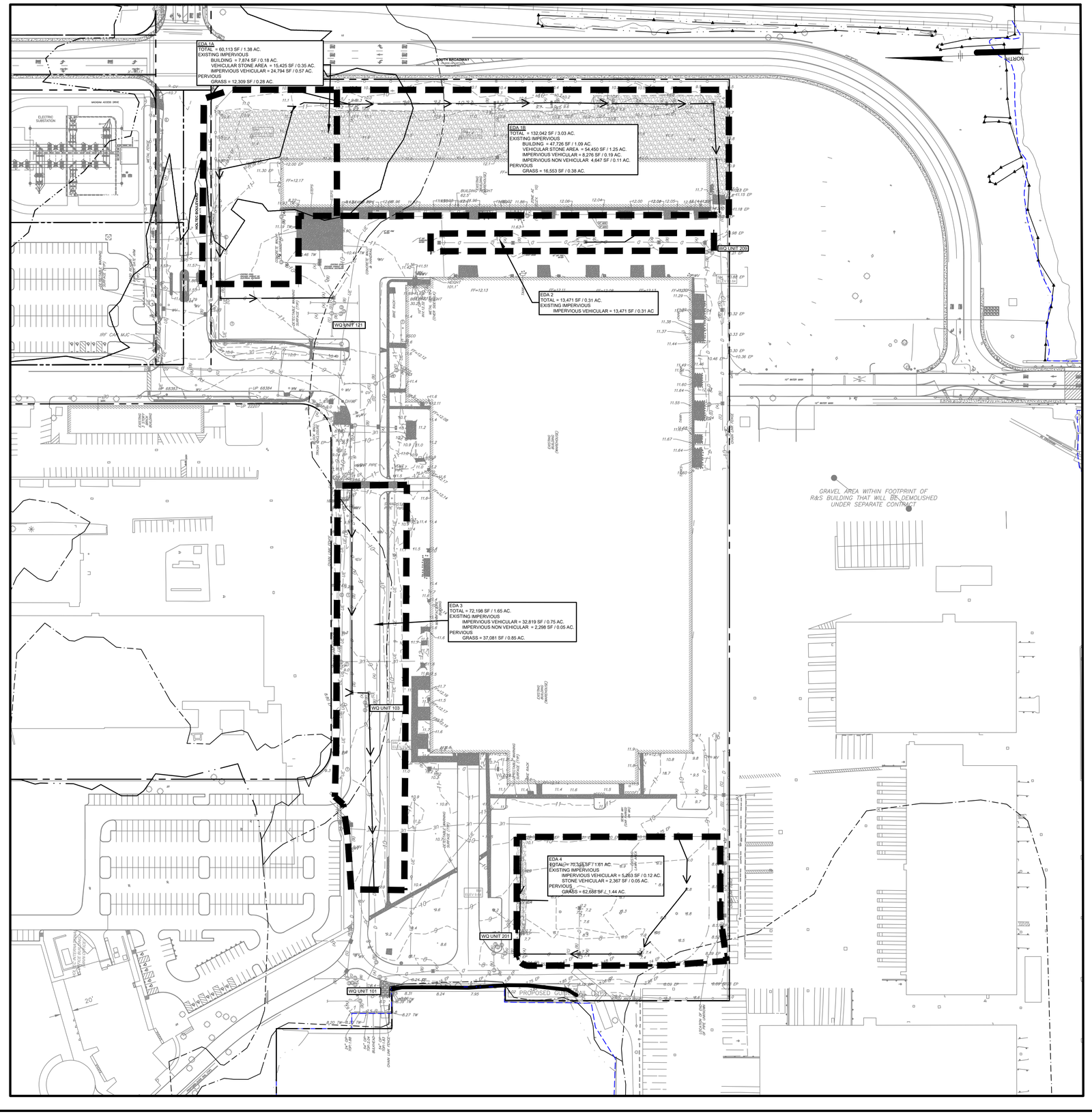
NO.	DATE	REVISIONS	BY

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PROJECT	USATX24001
DATE	APRIL 22, 2026
DRAWING SCALE	1"=80'
DRAWN BY	EAB
APPROVED BY	JJR

CS9001

SHEET 1 OF 2



NOT FOR CONSTRUCTION

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Pennoni

NJ COA GA28033300

PENNONI ASSOCIATES INC.
2 Aquarium Drive, Suite 320
Camden, NJ 08103
T 856.668.8600 F 856.668.8610

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

NJ CERTIFICATE OF AUTHORIZATION NO. GA28033300

JOSEPH RADAY
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION & DRIVEWAY WIDENING

BLOCKS 455 AND 457, LOTS 1 AND 16
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

PRE-DEVELOPED DRAINAGE AREA PLAN

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

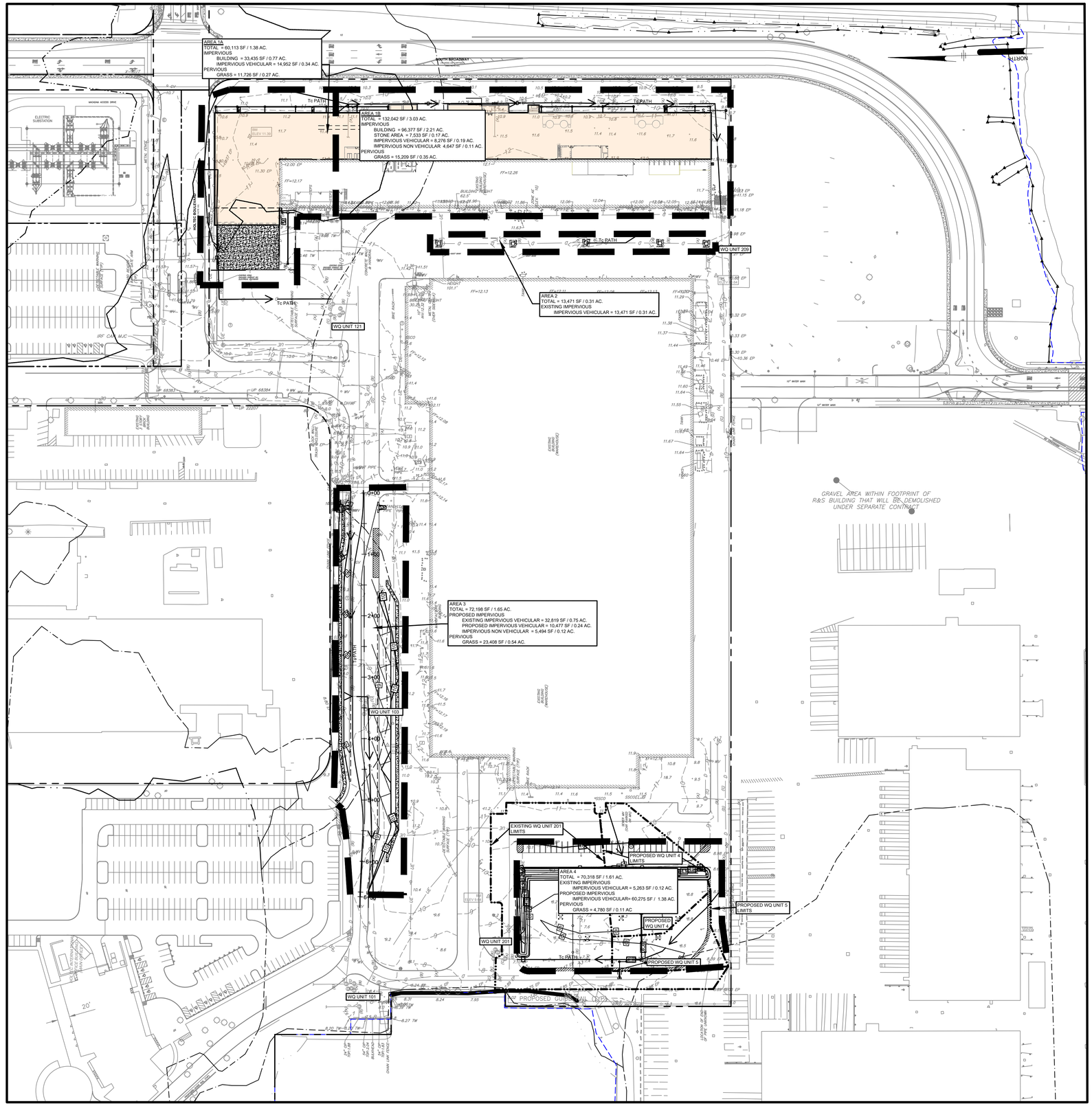
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2 Aquarium Drive, Suite 320
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BLOCKS 455 AND 457, LOTS 1 AND 16
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POST-DEVELOPED DRAINAGE AREA PLAN

HOLTEC TECHNOLOGY CENTER, LLC
1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY 08104

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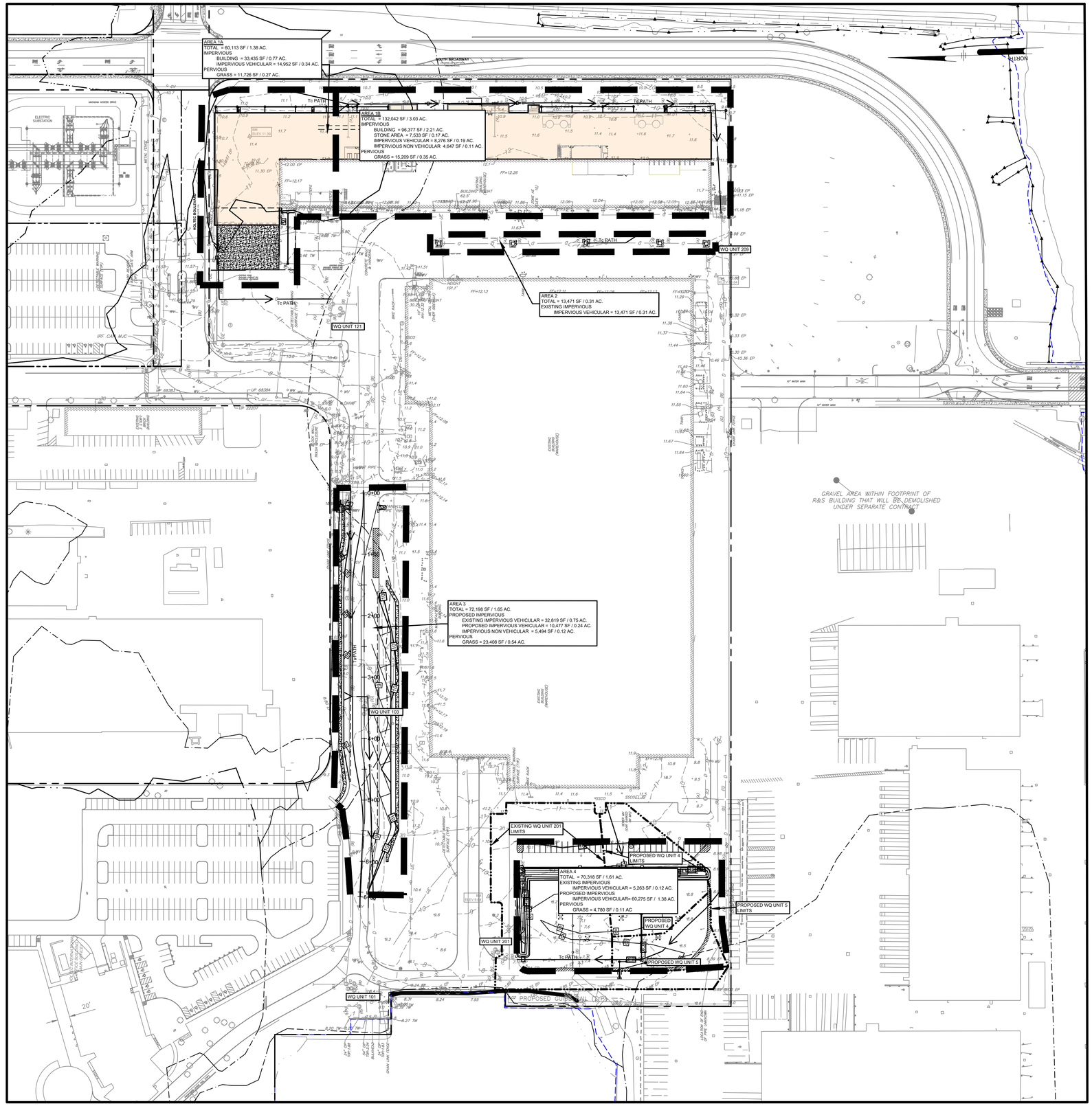
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DATE	APRIL 22, 2026
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DRAWN BY	EAB
APPROVED BY	JJR

CS9002

SHEET 2 OF 2

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Pennoni

NJ COA GA28033300

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Camden, NJ 08103
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PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. GE043768

4/22/26

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CS9002

SHEET 2 OF 2

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PARKER McCAY

Parker McCay P.A.
9000 Midlantic Drive, Suite 300
P.O. Box 5054
Mount Laurel, New Jersey 08054-5054

P: 856.596.8900
F: 856.596.9631
www.parkermccay.com

Kevin D. Sheehan
P: 856-985-4020
F: 856-596-9631
ksheehan@parkermccay.com

April 22, 2026

File No. 15454-16

VIA HAND DELIVERY
Angela Miller, Secretary
City of Camden Planning Board
Dept. of Development and Planning
520 Market Street, City Hall, Room 224
Camden, NJ 08101

Re: Holtec Technology Center, LLC
Preliminary & Final Major Site Plan Application
Block 455, Lot 1
Block 457, Lot 6
1 Holtec Boulevard

Dear Ms. Miller:

This office represents Holtec Technology Center, LLC ("Applicant") with the development of the above-referenced property located in the PRI Zoning District. The Property is identified on the Tax Maps of the City of Camden as Block 455, Lot 1 and Block 457, Lot 16, and is commonly known as 1 Holtec Boulevard ("Property"). The Property is located in the Port Related Industry (PRI) Zone.

There is presently the Holtec headquarters building, Holtec manufacturing building and warehouse building on the Property. The Applicant seeks approval to (1) expand the warehouse building and (2) to expand the parking lot behind the manufacturing building and expand the laydown area adjacent to the parking lot.

The Applicant is seeking Preliminary and Final Site Plan approval for the project with a variance from Section 877-111 of the Zoning Ordinance to permit a front yard setback of 16.6 feet where 25 feet is required. The Applicant will request all variances, deviations or waivers that the Board may deem necessary upon its review of the application.

In that regard, I enclose the following:

1. Original plus twelve (O+12) copies of the Zoning Permit application;
2. Original plus twelve (O+12) copies of the Site Plan Application and checklist;
3. Thirteen (13) sets of the Preliminary & Final Site Plan prepared by Pennoni;
4. Thirteen (13) copies of the Topographic Survey prepared by Pennoni;
5. Thirteen (13) copies of Geotech Report prepared by Pennoni;
6. Thirteen (13) copies of the Amended Traffic Report prepared by Pennoni
7. Thirteen (13) copies of the Stormwater Management Report prepared by Pennoni;
8. Thirteen (13) copies of the Stormwater Maintenance Report prepared by Pennoni;
9. Thirteen (13) copies of the Architectural Plans prepared by USA Architects;
10. Thirteen (13) copies of the Completed Assessment Certifications for each of the lots;
11. Original plus twelve (O+12) copies of the Escrow Agreement and executed W-9 form;
12. Thirteen (13) copies of the Disclosure of Owners of the Applicant pursuant to N.J.S.A. 40:55D-48.1;
13. Thirteen (13) copies of the relevant portions of the Ground Lease and First Amendment that permits the Applicant (Tenant) to construct improvements on the Property and specifically states that the Landlord shall have no rights of consent, dissent or power of veto for any such revision. (See Section 6.2(a). The leased Premises includes the subject Property (See Exhibit B to First Amendment to Ground Lease);
14. One (1) copy of the Proof of Ownership of each lot (showing South Jersey Port Corporation as the Property owner); and
15. Applicant's checks in the amount of:

    a. $87.30 representing the zoning permit fee;
    b. $500.00 representing the pre-application fee;
    c. $1,137.58 representing the preliminary and final major site plan application fee;
    d. $3,613.23 representing the preliminary and final major site plan escrow fee.

Two (2) copies of all submission materials are being hand delivered directly to Robert Hunter at Remington & Vernick. Please review this application and confirm that it can be scheduled for consideration at the May 14, 2026 Planning Board meeting.

Thank you for your cooperation. If you have any questions, please contact me.

Very truly yours,

KEVIN D. SHEEHAN

KDS/rr
Enc.

cc: Robert Hunter, PE, Remington & Vernick (w/ 2 copies of all materials filed)
Ashton Jones, PP, Remington & Vernick (electronic copies of all materials filed)
ALL VIA EMAIL ONLY – WITH APPLICATION FORMS
Christopher Bieberbach, Holtec
Joseph Raday, P.E. Pennoni

4925-4017-3987, v. 1

CITY OF CAMDEN
DIVISION OF PLANNING
CITY HALL – ROOM 224
PO BOX 95120
CAMDEN, NEW JERSEY 08101-5120
(856) 757-7214

INSTRUCTIONS FOR ZONING/SIGN PERMIT APPLICATION

ALL APPLICANTS WHO NEED A ZONING/SIGN PERMIT MUST SUBMIT THE FOLLOWING:

1. Completed Zoning AND/OR Sign Application

2. Proof of ownership (deed, tax bill, or lease) (Leases must be notarized) (Contract of Sale)

3. A detail floor plan of proposed use, conversion of single family dwelling shall have measurement of all habitable space. Accurate drawing of a proposed sign including dimensions and illustration signed by sign supplier. **Any addition or accessory uses or fences must have a Plot Plan and/or Survey. Additions/Fences must be presented on a Plot Plan/Survey with rear and side set back. You can obtain a Plot Plan from the Engineering Dept. located in City Hall, Room 325.** *(copy of all/any plans must accompany application.

4. Completed attached Tax Certification (**City of Camden Tax Office Room 117 1st floor and Water/Sewer is located in the Room 117, 1st floor)**

5. Application fee:
(**non-refundable)**

Single Family Dwelling	$ 69.56
Two-Family Dwelling	$ 139.13
Three-Family Dwelling Or More	$ 215.51
Rooming House	$ 259.16
Boarding House	$ ~~259.16~~
Commercial Use	$ 87.30
Industrial Warehousing & Manufacturing Use	$ 139.87
Institutional Use	$ 69.56
Advertising Billboards	$ 395.56
Sign Application	$ 79.11
Rezoning Application	$ 345.09

Money Order or Check payable to the City of Camden

PLEASE RETURN COMPLETED APPLICATIONS TO THE ABOVE ADDRESS. **INCOMPLETE APPLICATIONS SHALL NOT BE PROCESS.** ANY APPLICATION WHICH REMAINS INCOMPLETE FOR MORE THAN 10 BUSINESS DAYS WILL BE DISCARDED. FALSIFICATION IN ANY FORM SHALL SUBJECT APPLICANT TO A FINE OR MUNICIPAL COURT.

No construction, erection, alteration, repair, remodeling, conversion, renovation or demolition of any building or structure shall begin prior to Zoning approval. Other municipal agency approvals maybe required.

DO NOT REMOVE OR DISCARD ANY PART OF THIS APPLICATION

I. GENERAL

Today's Date: 4/22/2026

Applicant: Holtec Technology Center, LLC **Telephone:** 856-957-0924

Applicant's Address: 1 Holtec Boulevard, Camden, NJ 08104

Applicant Interest: (please check one) ( ) **owner** ( ) **tenant** ( ) **agent/owner**

SUBMITTING FOR: (X) **Zoning Permit** ( ) **Sign Permit**

---

1. Name and Address of property OWNER if different from that of applicant:

   South Jersey Port Corporation

2. **Address and Block and Lot number** for which zoning/sign permit is desired:

   2360 South Broadway **Block:** 455, 457 **Lot:** 1, 16

3. **Zone District:** R1 R2 R3 C1 C2 C3 C4 LII LI2 GI1 GI2
   (please circle) US PR1 OL1 TOD MW1 MW2 MS CV2 CC

4. Historic District: No

5. What is the property/land **PRESENTLY** being used *entirely as:*

   Holtec headquarters, manufacturing facility, and warehouse building.

6. Is the structure presently vacant? No If so how long? N/A

7. How many stories/floors does the building have? _____ Is there a basement/cellar? No

DO NOT REMOVE OR DISCARD ANY PART OF THIS APPLICATION

II. ZONING

1. What is being proposed?

   New Construction_____ Addition X Fence_____ (ht____) Installation_____

   New Business_____ Conversion_____ Other (explain: _____)

2. Describe in detail the use & activities **PROPOSED** (attached separate sheet if necessary):

   Amend site plans to expand existing warehouse building and expand parking lot area and lay down area behind manufacturing building.

3. Are there other activities existing within the same property? Yes (please describe)

   Holtec headquarters, manufacturing building, and warehouse building.

4. Dimensions of Principal Building and/or structure Warehouse 809.5' x 182.1' irregular

5. Dimensions of All Accessory Building and/or structure N/A

6. Are any of the activities conducted in the principal building existing as a nonconforming use?

   No X Yes_____ (please explain) _____

7. To the applicant's knowledge, has there been any prior applications made to the Zoning Board of Adjustment or the Planning Board?

   No X Yes_____ (please explain) _____

==========

THIS APPLICANT CERTIFIES THAT THE ABOVE INFORMATION HAS BEEN COMPLETED TO THE BEST OF HIS/HER KNOWLEDGE.

4/22/2026
(Date)

(Signature of Applicant)
Kevin D. Sheehan, Attorney for Applicant
Holtec Technology Center, LLC
(Name of Corporation or Association)

DO NOT REMOVE OR DISCARD ANY PART OF THIS APPLICATION

III. SIGN **NO SIGNS**

1. Type Sign: Awning / Billboard / Freestanding / Hanging / Mounted / Off Site / Window
   (please circle)
   Other (describe): _____ Alteration of an existing sign _____
   (attach photo & describe) _____

2. Are there any existing signs? _____ (if yes, please attach photos)

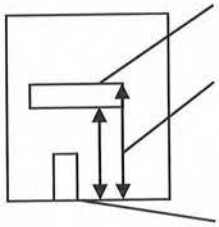
3. How many signs are proposed? _____

4. Will signs(s) be illuminated? Yes_____ No_____

5. Dimension: _____X_____=_____sq ft.

6. Distance between ground and the lowest part of sign _____ft.

7. Distance between ground and highest part of the sign _____ft.



8. Material of Sign:_____

9. Color(s) on sign(s):_____

10. Illustration/Wording:_____

_____

==========

THIS APPLICANT CERTIFIES THAT THE ABOVE INFORMATION HAS BEEN COMPLETED TO THE BEST OF HIS/HER KNOWLEDGE AND FURTHER UNDERSTANDS THAT <u>IF THE SIGN EXCEEDS THE MAXIMUM REQUIREMENT</u> A VARIANCE THROUGH THE PLANNING BOARD OF THE CITY OF CAMDEN MUST BE REQUESTED.

4/22/2026
(Date)

_____
(Signature of Applicant)
Kevin D. Sheehan, Attorney for Applicant
Holtec Technology Center, LLC
(Name of Corporation or Association)

DO NOT REMOVE OR DISCARD ANY PART OF THIS APPLICATION

CITY OF CAMDEN

DEPARTMENT OF ADMINISTRATION

DIVISION OF PLANNING

SITE PLAN APPLICATION AND SUBMISSION ITEMS PACKAGE

Any questions please contact:
Angela Miller, Planning Board Secretary
757-7214

SITE PLAN APPLICATION AND SUBMISSION ITEMS PACKAGE

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SITE PLAN CHECKLIST.....Page 2

PLOT PLAN CHECKLIST.....Page 3

PLANNING & ZONING FEES.....Page 5

SITE PLAN APPLICATION.....Page 6

ESCROW AGREEMENT.....Page 10

COUNTY PLANNING BOARD APPLICATION.....Page 11

SITE PLAN APPLICATION CHECKLIST

CHECK IF COMPLETED		*FOR OFFICE USE ONLY*
X	1. Zoning Application	____
X	2. Site Plan Applications & Site Plans (12 copies of both)	____
X	3. Proof of ownership (i.e. Deed, Tax Bill and/or Lease)	____
X	4. Signed escrow fee agreement	____

PRIOR TO SUBMISSION OF ANY SITE PLAN APPLICATIONS EVERY APPLICANT MUST CALL FOR A PRE-APPLICATION CONFERENCE.

IT IS STRONGLY ADVISED THAT THE APPROPRIATE PROFESSIONALS BE PRESENT AT SAID MEETING.

PRE-APPLICATION CONFERENCE FEE: $500.00

(ACCORDING TO SECTION 577-270 OF THE CITY'S ZONING CODE)

***NOTE:**

A. Incomplete applications will not be processed.

B. Submission hours are 8:30 a.m. to 4:30 p.m., Monday through Friday. All applications must be stamped "RECEIVED" by the Division of Planing. No outside drop-offs will be processed.

C. All plans must be folded with *Title Block* facing upward.

D. Whenever public notice is required, the Division of Planning shall prepare procedures for said notification and advise applicant of its readiness.

REVISED

The following checklist pertains to PLOT PLANS:

CHECK IF COMPLETED		*FOR OFFICE USE ONLY*
X	1. Name and address of owner and applicant	
X	2. Name, signature, licenses #, seal and address of engineer, land surveyor, architect, professional planner, and/or landscape architect (as applicable).	
X	3. Title block denoting type of application, tax map sheet, county municipality, block and lot, and street address.	
X	4. Key map not less than 1" - 1000" showing location of tract to surrounding streets, municipal boundaries, etc. within 500'.	
X	5. Schedule for required and proposed zone requirements for lot area, frontage, setbacks, impervious coverage, parking, etc.	
X	6. North arrow to top of sheet, scale and graphic scale	
X	7. Signature block for board chair, secretary and engineer.	
X	8. Date of property survey	
X	9. Acreage of tract to nearest tenth	
X	10. Date or original and all revisions	
X	11. Size and location of existing or proposed structures and their dimensioned setbacks	
X	12. Location and dimensions of any existing or proposed streets	
X	13. All proposed lot lines and area of lots in square feet	
X	14. Copy of and plan delineation of any existing or proposed deed restriction	
X	15. Any existing or proposed easement or land reserved or dedicated for public use	
X	16. Existing streets, other right-of-way or easements; water courses, wetlands, soils floodplains, or other environmentally sensitive areas within 200' of tract	
X	17. Topographical features of subject property from USGS 7.5 minute maps	

CONTINUED ON NEXT PAGE...

CHECK IF COMPLETED		*FOR OFFICE USE ONLY*
X	18. Boundary, limits, nature and extent of wooded areas, specimen trees and other significant physical features	
X	19. Drainage calculations	
X	20. Proposed utilities: sanitary sewer, water, storm water management, telephone, cable TV and electric	
X	21. Soil erosion and sediment control plan if more than 5000 sq. ft.	
X	22. Spot and finished elevations at all property corners, corners of structures, existing or proposed first floor elevations	
X	23. Construction details road and paving cross-sections and profiles if no profiles needed	
X	24. Lighting plan and details	
X	25. Landscape plan and details	
X	26. Site identification signs, traffic control signs, and directional signs	
X	27. Sight triangles	
X	28. Vehicular and pedestrian circulation patterns	
X	29. Parking plan indicating spaces, size and type aisle width internal collectors, curb cuts, drives and driveways and all ingress and egress areas with dimensions	
X	30. Preliminary architectural plan and elevations	
X	31. Environmental impact report; parcels 2 acres or larger	
X	32. Plan paper size should be 24 by 36	

CITY OF CAMDEN
SCHEDULE OF
PLANNING AND ZONING BOARD FEES
(revised)

I. ZONING PERMIT

A. Zoning Permit Application .....see attached application

II. PLANNING BOARD FEES

A. PRE-APPLICATION MEETING FEE $500.00

B. SUBDIVISION

1. Minor Subdivision (2 Lots or Less refer to section 577-18)
   Application Fee: $177.32
   Engineer Review (Escrow Account)..$528.24

2. Major Subdivision (Preliminary Plot)
   Application Fee:.....$528.24
   Engineer Review (Escrow Acct.)..$851.88 + 170.50 per lot created*

3. Major Subdivision (Final)
   Application Fee:.....$339.76
   Engineer Review (Escrow Acct…)$851.88 + 170.50 per lot created*

C. SITE PLAN

1. Preliminary Application (Review).....$482.36 for .50 acre or less
   $803.40 for .50 acre or more

2. Engineering Review (Escrow Account)....$1,204.41 for .50 acre or less
   (Preliminary) $2,408.82 for .50 acre or more

3. Final Application.....$334.18

4. Engineer Review (Escrow Account)..... $ 803.40 for .50 acre or less
   (Final*) $1,204.41 for .50 acre or more

(Amended Final Application Fee & Final Engineering Escrow Fee)

D. SIGN PERMIT

1. Sign Permit Application.....(see Zoning Permit Application)

E. PROPERTY LISTING FEES.....$18.60 OR $1.24 PER NAME WHICHEVER IS GREATER

(PURSUANT TO THE CODE OF THE CITY OF CAMDEN ARTICLE I, SECTION 233-4)

SITE PLAN APPLICATION

(Please Answer *ALL* Questions)

APPLICANT Holtec Technology Center, LLC

ADDRESS 1 Holtec Boulevard, Camden, NJ 08104

TELEPHONE# 856-957-0924 FAX#

OWNER OF PROPERTY South Jersey Port Corporation
(if other than applicant)

ADDRESS 101 Joseph A. Balzano Boulevard, Camden, NJ 08103

TELEPHONE 856-541-8500

IF APPLICANT IS INCORPORATE OR A PARTNERSHIP, LEGAL REPRESENTATION IS REQUIRED. PLEASE PROVIDE THE FOLLOWING:

Attorney's Name Kevin D. Sheehan, Esquire, Parker McCay

Address 2 Cooper Street, Suite 1901, Camden, NJ 08102

Telephone# 856-985-4020 Fax#

PLEASE PROVIDE THE FOLLOWING INFORMATION BELOW:

Engineer and/or Architect 's Name Pennoni

Address 2 Aquarium Loop Drive, Suite 300, Camden, NJ 08103

Telephone# 856-668-8600 Fax#

ADDRESS OF DEVELOPMENT 1 Holtec Boulevard

BLOCK NO.(S) 455 / 457 **LOT NO.(S)** 1 / 16 **ZONE** PRI

PRESENT USE(S)

Holtec headquarters, manufacturing building, and warehouse building.

DESCRIBE PROPOSED USES(S):
(attach separate sheet if needed) Amend site plans to expand warehouse building and expand parking lot and laydown area.

SQUARE FOOTAGE OF PROPOSED USE Warehouse - 74,870 new; 130,470 sf after expansion.

LOT AREA (Measured in Square Footage) 326,349 sf.

BUILDING AREA OF GROUND FLOOR Warehouse - 130,470 sf

BUILDING AREA (Total Sq. Ft. - all floors) Warehouse - 130,470 sf

NO. OF PROPOSED PARKING SPACES 32 new

NO. OF EXISTING PARKING SPACES 175 at manufacturing and 85 at warehouse

AREA IN ACRES OF ANY ADDITION ADJOINING LAND OWNED BY APPLICANT No

DOES THIS APPLICATION CONSTITUTE:
(Please check appropriate box)

- [ ] New Application
- [ ] Preliminary
- [ ] Preliminary and Final
- [X] Revision or Resubmission of a prior application

*IS THIS APPLICATION FOR A VARIANCE TO CONSTRUCT A MULTI-DWELLING OF 25 OR MORE FAMILY DWELLING UNITS? (Please check) YES_____ NO_X___

*IS THIS APPLICATION INTENDED FOR COMMERCIAL PURPOSES(S)?
(Please check) YES_X__ NO_____

IF THE ANSWER TO (A) OR (B) IS "YES", AND/OR IF APPLICANT IS A CORPORATION OR PARTNERSHIP, PLEASE PROVIDE THE FOLLOWING:

1. Name and address of all stockholders or individual partners owning at least 10% of its stock, of any class, or at least 10% of the interest in the partnership, as the case may be. (Additional sheet may be attached if needed).

NAME ADDRESS

SEE SEPERATE ATTACHED SHEET

DOES THIS APPLICATION INCLUDE:

1. AN ADDITION OF 1,000 SQ. FT. OR MORE TO AN EXISTING STRUCTURE?
   (Please circle) (YES) NO
2. AN ADDITION OF 1,000 SQ. FT. OR MORE OF PAVING AREA FOR OFF-STREET PARKING?
   (Please circle) (YES) NO

THIS APPLICANT CERTIFIES THAT THE ABOVE INFORMATION HAS BEEN COMPLETED TO THE BEST OF HIS/HER KNOWLEDGE.

4/22/2026
DATE

Kevin D. Sheehan, Attorney for Applicant
APPLICANT'S NAME (***PLEASE PRINT***)

APPLICANT'S SIGNATURE

IV. ASSESSMENT CERTIFICATION

Section A: Applicant shall complete

SECTION A	OWNER
Name of OWNER of Property	South Jersey Port Corporation
Address:	101 Joseph A Balzano Blvd
SEARCH Address:	2500 So Broadway
Block: 455	**Lot:** 1 **Account:** 77-0461439-0

Section B: Applicant shall take this form to the City of Camden Tax Office, Room 117 (1st floor) for completion to indicate whether taxes are paid up to date. Applicant must also go to the PNC Bank (Broadway & Market St) for water and sewer to make sure water /sewer is paid up to date.
Upon completion, this form shall be submitted with original application. **NO APPLICATIONS WILL BE ACCEPTED – if any money is owed for Taxes or Water/Sewer, no permit can be issued until accounts are paid in full-proof of payment must be brought back before turning application in.**

Section C: **TAX OFFICE & PNC BANK**
An application for Zoning/Sign permit has been submitted to the Division of Planning. Please check your records to be certain that the account is current

I HEREBY CERTIFY THAT THE PROPERTY ASSESSMENT ARE:
****MORTGAGE LETTERS ON LETTERHEAD WILL BE ACCEPTED FOR SALE/RESALE PROPERTIES ONLY****

Account Type	Qtr.	Due date	Amount Owed	Other
(Taxes/W&S/Other	Past	due	$ 112,774.82	AM 4.21.26
(Taxes/W&S/Other	2nd	5/1/26	$ 108,474.18	AM 4.21.26
(Taxes/W&S/Other		PAST DUE	$1650.19	RC 4/22/26
(Taxes/W&S/Other				

COMMENTS: _____

_____

_____

DATED: _____ **PREPARED BY:** _____

IV. ASSESSMENT CERTIFICATION

Section A: Applicant shall complete

SECTION A **OWNER**

Name of OWNER of Property South Jersey Port Corporation

Address: 101 Joseph A Balzano Blvd

SEARCH Address: 2500 So Broadway

Block: 455 **Lot:** 1 **Account:** 77-0702553-7

Section B: **Applicant shall take this form to the City of Camden Tax Office, Room 117 (1st floor) for completion to indicate whether taxes are paid up to date. Applicant must also go to the PNC Bank (Broadway & Market St) for water and sewer to make sure water /sewer is paid up to date.** Upon completion, this form shall be submitted with original application. **NO APPLICATIONS WILL BE ACCEPTED – if any money is owed for Taxes or Water/Sewer, no permit can be issued until accounts are paid in full-proof of payment must be brought back before turning application in.**

Section C: **TAX OFFICE & PNC BANK**

An application for Zoning/Sign permit has been submitted to the Division of Planning. Please check your records to be certain that the account is current

I HEREBY CERTIFY THAT THE PROPERTY ASSESSMENT ARE:

****MORTGAGE LETTERS ON LETTERHEAD WILL BE ACCEPTED FOR SALE/RESALE PROPERTIES ONLY****

Account Type	Qtr.	Due date	Amount Owed	Other
(Taxes/W&S/Other	Past due		$119,774.82	AM 4.21.26
(Taxes/W&S/Other	2nd	5.1.26	$108,474.18	AM 4.21.26
(Taxes W&S Other		NOT BILLING		RC 4/22/26
(Taxes/W&S/Other				

COMMENTS: _____

DATED: _____ **PREPARED BY:** _____

IV. ASSESSMENT CERTIFICATION

Section A: Applicant shall complete

SECTION A	**OWNER**
Name of OWNER of Property	South Jersey Port Corporation
Address:	101 Joseph A Balzano Blvd
SEARCH Address:	2500 So Broadway
Block: 455	**Lot:** 1 **Account:** 77-0676539-8

Section B: Applicant shall take this form to the City of Camden Tax Office, Room 117 (1st floor) for completion to indicate whether taxes are paid up to date. Applicant must also go to the PNC Bank (Broadway & Market St) for water and sewer to make sure water /sewer is paid up to date.
Upon completion, this form shall be submitted with original application. **NO APPLICATIONS WILL BE ACCEPTED – if any money is owed for Taxes or Water/Sewer, no permit can be issued until accounts are paid in full-proof of payment must be brought back before turning application in.**

Section C: TAX OFFICE & PNC BANK
An application for Zoning/Sign permit has been submitted to the Division of Planning. Please check your records to be certain that the account is current

I HEREBY CERTIFY THAT THE PROPERTY ASSESSMENT ARE:
****MORTGAGE LETTERS ON LETTERHEAD WILL BE ACCEPTED FOR SALE/RESALE PROPERTIES ONLY****

Account Type	Qtr.	Due date	Amount Owed	Other
(Taxes/W&S/Other	Past	due	$12,774.82	AM 4.21.26
(Taxes/W&S/Other	2nd	5.1.26	$108,474.18	AM 4.21.26
(Taxes/W&S/Other		PAST DUE	$2807.95	RC 4/22/26
(Taxes/W&S/Other				

COMMENTS: _____

_____

_____

DATED: _____ **PREPARED BY:** _____

IV. ASSESSMENT CERTIFICATION

Section A: Applicant shall complete

SECTION A	**OWNER**
Name of OWNER of Property	South Jersey Port Corporation
Address:	101 Joseph A Balzano Blvd
SEARCH Address:	2500 So Broadway
Block: 455	**Lot:** 1 **Account:** 77-00676537-2

Section B: Applicant shall take this form to the City of Camden Tax Office, Room 117 (1st floor) for completion to indicate whether taxes are paid up to date. Applicant must also go to the PNC Bank (Broadway & Market St) for water and sewer to make sure water /sewer is paid up to date.
Upon completion, this form shall be submitted with original application. **NO APPLICATIONS WILL BE ACCEPTED – if any money is owed for Taxes or Water/Sewer, no permit can be issued until accounts are paid in full-proof of payment must be brought back before turning application in.**

Section C: **TAX OFFICE & PNC BANK**
An application for Zoning/Sign permit has been submitted to the Division of Planning. Please check your records to be certain that the account is current

I HEREBY CERTIFY THAT THE PROPERTY ASSESSMENT ARE:
****MORTGAGE LETTERS ON LETTERHEAD WILL BE ACCEPTED FOR SALE/RESALE PROPERTIES ONLY****

Account Type	Qtr.	Due date	Amount Owed	Other
(Taxes/W&S/Other	Rest	due	$112,779.82	AM 4.21.26
(Taxes/W&S/Other	2nd	5.1.26	$108,444.18	AM 4.21.26
(Taxes/W&S/Other		PAST DUE	$1204.92	RC 4/22/26
(Taxes/W&S/Other				

COMMENTS: _____

_____

_____

DATED: _____ **PREPARED BY:** _____

IV. ASSESSMENT CERTIFICATION

Section A: Applicant shall complete

SECTION A	**OWNER**
Name of OWNER of Property	South Jersey Port Corporation
Address:	101 Joseph A Balzano Blvd
SEARCH Address:	2500 So Broadway
Block: 455	**Lot:** 1 **Account:** 77-0676532-3

Section B: Applicant shall take this form to the City of Camden Tax Office, Room 117 (1st floor) for completion to indicate whether taxes are paid up to date. Applicant must also go to the PNC Bank (Broadway & Market St) for water and sewer to make sure water /sewer is paid up to date.
Upon completion, this form shall be submitted with original application. **NO APPLICATIONS WILL BE ACCEPTED – if any money is owed for Taxes or Water/Sewer, no permit can be issued until accounts are paid in full-proof of payment must be brought back before turning application in.**

Section C: **TAX OFFICE & PNC BANK**
An application for Zoning/Sign permit has been submitted to the Division of Planning. Please check your records to be certain that the account is current

I HEREBY CERTIFY THAT THE PROPERTY ASSESSMENT ARE:
****MORTGAGE LETTERS ON LETTERHEAD WILL BE ACCEPTED FOR SALE/RESALE PROPERTIES ONLY****

Account Type	Qtr.	Due date	Amount Owed	Other
(Taxes/W&S/Other	past due		$112,774.82	Am 4.21.24
(Taxes/W&S/Other	2nd		$3,474.18	Am 4.21.24
(Taxes/W&S/Other				RC 4/22/26
(Taxes/W&S/Other				

City Of Camden Water
Camden Office
Date 4.22.26
Rep RC

COMMENTS: _____

DATED: _____ **PREPARED BY:** _____

IV. ASSESSMENT CERTIFICATION

Section A: Applicant shall complete

SECTION A	**OWNER**
Name of OWNER of Property	South Jersey Port Corporation
Address:	101 Joseph A Balzano Blvd
SEARCH Address:	2500 So Broadway
Block: 455	**Lot:** 1 **Account:** 77-0676536-4

Section B: Applicant shall take this form to the City of Camden Tax Office, Room 117 (1st floor) for completion to indicate whether taxes are paid up to date. Applicant must also go to the PNC Bank (Broadway & Market St) for water and sewer to make sure water /sewer is paid up to date.
Upon completion, this form shall be submitted with original application. **NO APPLICATIONS WILL BE ACCEPTED – if any money is owed for Taxes or Water/Sewer, no permit can be issued until accounts are paid in full-proof of payment must be brought back before turning application in.**

Section C: **TAX OFFICE & PNC BANK**
An application for Zoning/Sign permit has been submitted to the Division of Planning. Please check your records to be certain that the account is current

I HEREBY CERTIFY THAT THE PROPERTY ASSESSMENT ARE:
****MORTGAGE LETTERS ON LETTERHEAD WILL BE ACCEPTED FOR SALE/RESALE PROPERTIES ONLY****

Account Type	Qtr.	Due date	Amount Owed	Other
(Taxes/W&S/Other	Past due		$112,779.82	AM 4.24.24
(Taxes/W&S/Other	2nd Am	5.1.26	$108,474.18	@ 4/21.24
(Taxes/W&S/Other	____	PAST DUE	$148.27	RC 4/22/26
(Taxes/W&S/Other	____	____	____	____

COMMENTS: _____

_____

_____

DATED: _____ **PREPARED BY:** _____

ESCROW DEPOSIT AGREEMENT BETWEEN THE CITY OF CAMDEN AND

DEPOSITOR Holtec Technology Center, LLC

Address 1 Holtec Way
Camden, NJ 08104

Telephone No. 856-957-0924 Check No. _____

Depositor herewith deposits the sum of ONE THOUSAND TWO HUNDRED FOUR DOLLARS AND 31/00 dollars ($3,613.23) with the City of Camden in accordance with and subject to the provisions of the City of Camden Ordinance No. MC-2304, being incorporated by reference and made a part hereof, and agrees to the following:

1. Depositor's payment of said deposit is made in connection with an application for:
   Block 455, Lot 1 and Block 457, Lot 16
   at (provide address with block and lot number): _____
2. The Treasurer of the City of Camden shall be authorized to disburse to the City Engineer from the funds deposited, those fees required to be paid for the technical and professional review by the Zoning Board of Adjustment and/or Planning Board pursuant to the terms of Ordinance MC-2304.
3. All fees shall be disbursed upon reconciliation of the Engineer & Insurance Escrow Accounts by Ordinance MC-2304.
4. If there are insufficient funds in the depositor's escrow account to pay all pending bill attributable to the aforementioned project, depositor shall be notified by the appropriate agency and requested to make an additional deposit into the escrow account.
5. Depositor understands that if he/she fails to make any additional deposit required, depositor's application shall be denied.
6. Any additional deposits shall be made to the Treasure, City of Camden, by way of the Division of Planning, in accordance with the terms set forth herein unless otherwise agreed to by the depositor and the approving agency.
7. The City of Camden shall not be required to pay interest on any sums held pursuant to this agreement.

IN WITNESS WHEREOF the undersigned hereby accepts the terms and conditions of this agreement.

DATED: 4/22/2026

_____
Applicant or authorized signature
Kevin D. Sheehan, Attorney for Applicant

Form **W-9**
(Rev. October 2018)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

▶ **Go to *www.irs.gov/FormW9* for instructions and the latest information.**

Give Form to the requester. Do not send to the IRS.

Print or type. See Specific Instructions on page 3.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.
Holtec International and Subsidiaries

2 Business name/disregarded entity name, if different from above

3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only **one** of the following seven boxes.

☐ Individual/sole proprietor or single-member LLC ☐ C Corporation ☑ S Corporation ☐ Partnership ☐ Trust/estate

☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____

Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is **not** disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.

☐ Other (see instructions) ▶

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) _____

Exemption from FATCA reporting code (if any) _____

(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.) See instructions.
1001 N. US Highway 1, Suite 800

Requester's name and address (optional)

6 City, state, and ZIP code
Jupiter, Fl 33477-4407

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number
[ ][ ][ ] - [ ][ ] - [ ][ ][ ][ ]

or

Employer identification number
2 0 - 4 5 9 8 4 3 3

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here **Signature of U.S. person** ▶ Brad J. Shutt **Date** ▶ 10/5/2023

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to *www.irs.gov/FormW9*.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, *later.*

DISCLOSURE STATEMENT PURSUANT TO N.J.S.A. 40:55D-48.1

The owners of 10% or more of Applicant – Holtec International Inc. S-Corporation Ownership Percentages is:

Dr. Krishna P. Singh – Great Banyan Trust: 36.33%
Martha J. Singh – Multi Decades Trust: 63.37%

4905-8589-0723, v. 1

ARTICLE VI

DESIGN AND CONSTRUCTION OF THE IMPROVEMENTS

Section 6.1 Improvements. As used in this Lease, "Improvements" means all temporary and permanent structures, sidewalks, driveways, roadways, parking areas, loading areas, fixtures, equipment, permanently affixed trade fixtures and all other improvements which are constructed or located and to be constructed and located on the Premises at any time during the Term of this Lease by or on behalf of Tenant or any sublessee of Tenant and which are necessary to construct and operate the Project and any other building, facility, or structure now or hereafter located at or on the Premises.

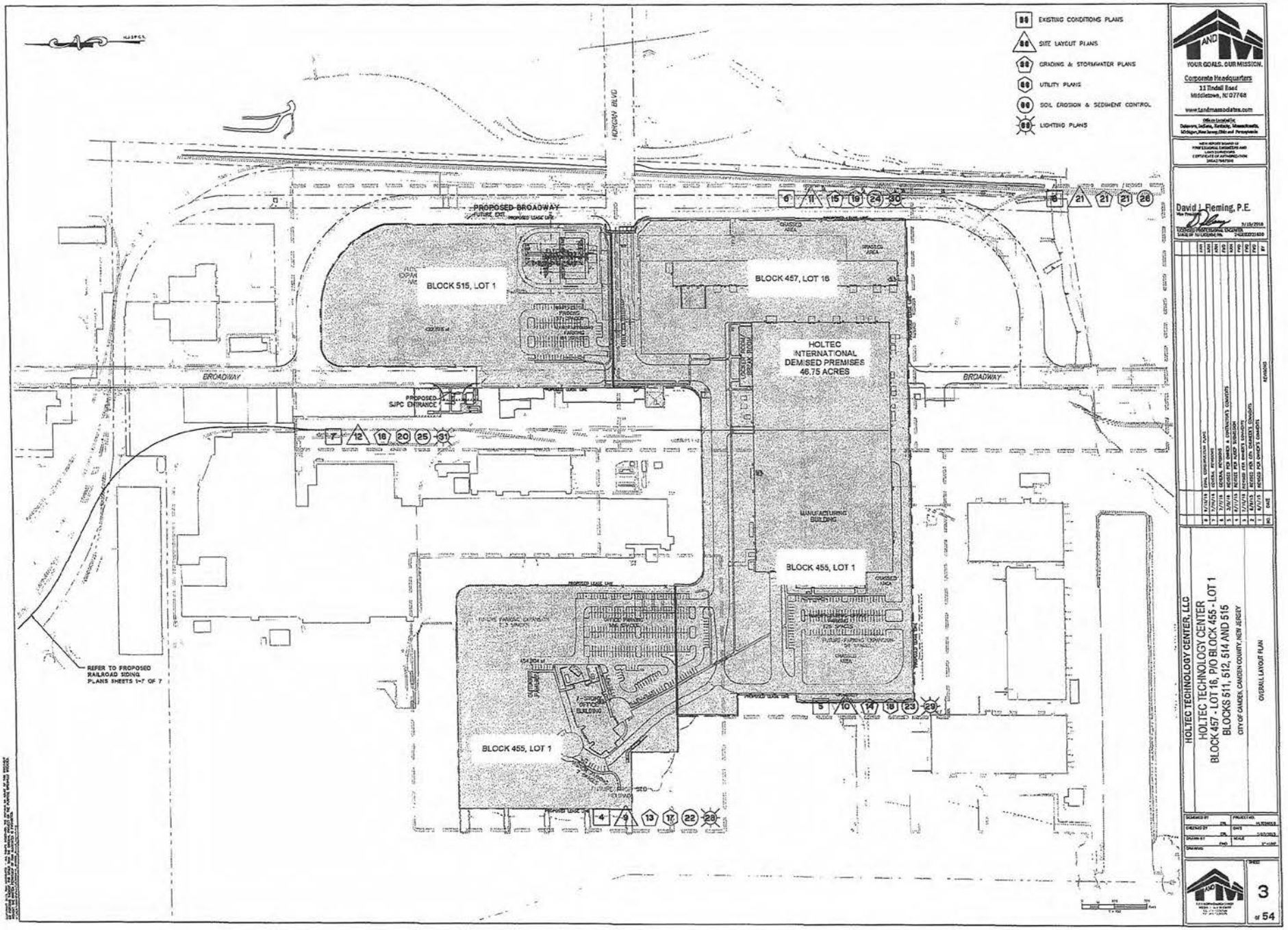
Section 6.2 Development and Construction; Costs Paid by Tenant. (a) Tenant agrees that it will cause to be prepared designs, plans and specifications for the facilities and Improvements constituting the Project and any other additional Improvements ("Plans and Specifications") and it will submit such Plans and Specifications to Landlord in a timely manner for review and information, it being understood that Landlord shall have no rights of consent, dissent, or power of veto for the contents of any such Plans and Specifications; provided, however that Landlord shall maintain consent rights solely and directly related to the determination as to the relocation of the existing electric substation currently located on the Premises to a new location outside the boundaries of the Premises. In addition, Tenant shall be permitted to revise such Plans and Specifications, in its sole discretion, as necessary or desirable in order to complete the Project. Any such revisions shall be provided to Landlord in a timely manner for its review and information it being understood that Landlord shall have no rights of consent, dissent, or power of veto for any such revisions, except where such revisions relate solely and directly to the determination of the relocation of the existing electric substation outside of the boundaries of the Premises.

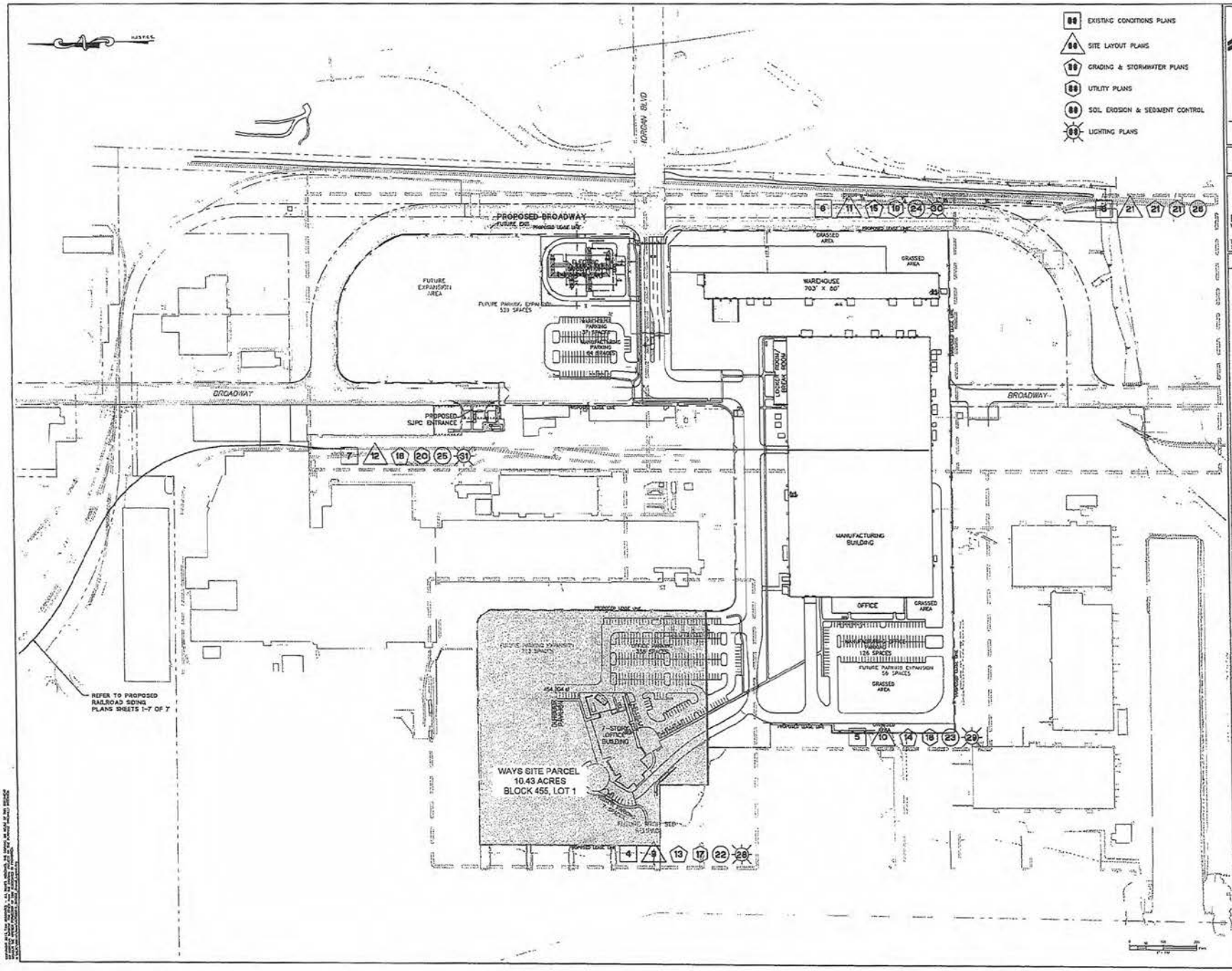
(b) Tenant shall be solely responsible for ensuring that the design of any Improvements is appropriate for its respective purposes. All costs associated with making changes to the Plans and Specifications shall be borne exclusively by Tenant, but Landlord shall bear all costs for its review of same. The Plans and Specifications shall be prepared in accordance with all applicable laws, regulations, ordinances, and codes. The final version of the Plans and Specifications shall be stamped by a professional engineer or architect, as applicable, licensed by the State. Landlord shall use its best efforts to accommodate reasonable requests from Tenant, or any duly authorized agent of Tenant, with respect to submissions to any governmental or regulatory authority for approvals of such Plans and Specifications and related permits and authorizations.

(c) Tenant, or Tenant's contractors, subcontractors or consultant, shall construct and undertake the Improvements constituting the Project and any other Improvements in accordance with the Plans and Specifications, as may reasonably be revised, and Tenant shall use its reasonable best efforts to obtain completion of the Project within the Project Schedule (as defined in the Project Development Agreement) and any other additional Improvements according to a hereafter provided project schedule; provided, however, that neither Landlord nor Tenant shall incur any liability for delays related thereto unless such delays were caused by Landlord and relate to leasehold interest of Tenant in the Premises, in which event Tenant shall have the rights provided by Section 2.1 hereof.

Exhibit "B"

Amended and Restated Exhibit "A" to the Lease
(Description of the Premises)


EXISTING CONDITIONS PLANS
SITE LAYOUT PLANS
GRADING & STORMWATER PLANS
UTILITY PLANS
SOIL EROSION & SEDIMENT CONTROL
LIGHTING PLANS
HORGAN BLVD
PROPOSED BROADWAY
FUTURE EXT.
BLOCK 515, LOT 1
BLOCK 457, LOT 16
HOLTEC INTERNATIONAL DEMISED PREMISES 46.75 ACRES
BROADWAY
PROPOSED SJPC ENTRANCE
MANUFACTURING BUILDING
BLOCK 455, LOT 1
OFFICE BUILDING
REFER TO PROPOSED RAILROAD SIDING PLANS SHEETS 1-7 OF 7
BLOCK 455, LOT 1
YOUR GOALS. OUR MISSION.
Corporate Headquarters
11 Tindall Road
Middletown, NJ 07748
www.landmassociates.com
David J. Fleming, P.E.
HOLTEC TECHNOLOGY CENTER, LLC
HOLTEC TECHNOLOGY CENTER
BLOCK 457 - LOT 16, P/O BLOCK 455 - LOT 1
BLOCKS 511, 512, 514 AND 515
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY
OVERALL LAYOUT PLAN
3
54



YOUR GOALS. OUR MISSION.

Corporate Headquarters
11 Tindall Road
Middletown, NJ 07748
www.landmassociates.com

David J. Fleming, P.E.
9/15/2016

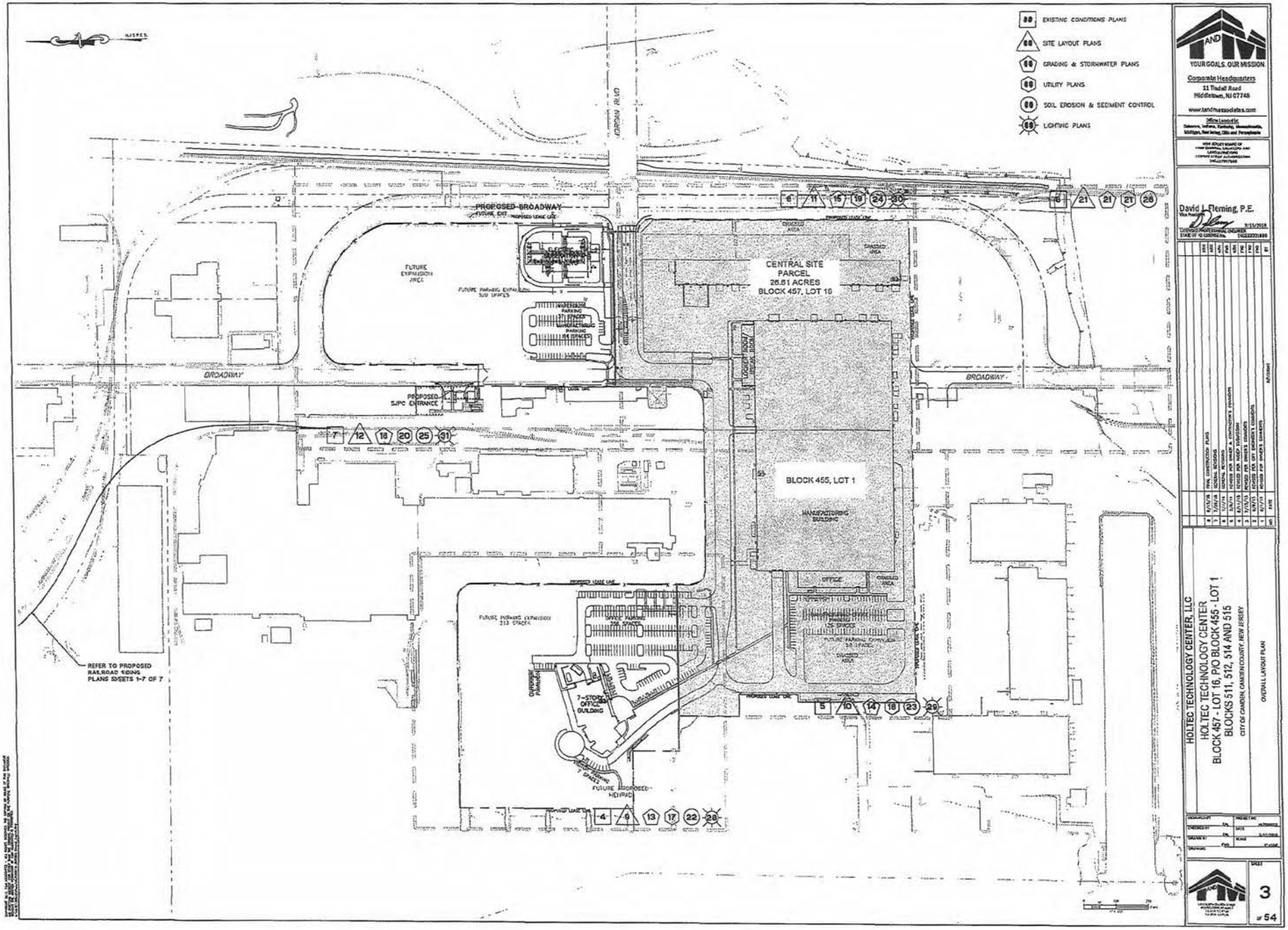
8	9/15/16	Final Construction Plans	DJF
7	7/28/16	Revised Per Comments	DJF
6	7/7/16	Revised Per Comments	DJF
5	5/6/16	Revised Per Board & Engineer's Comments	DJF
4	4/11/16	Revised Per Board's Comments	DJF
3	3/7/16	Revised Per Board's Comments	DJF
2	2/2/16	Revised Per City Engineer's Comments	DJF
1	1/11/16	Revised Per Owner's Comments	DJF
NO.	DATE	REVISIONS	BY

HOLTEC TECHNOLOGY CENTER, LLC
HOLTEC TECHNOLOGY CENTER
BLOCK 457 - LOT 16, P/O BLOCK 455 - LOT 1
BLOCKS 511, 512, 514 AND 515
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

OVERALL LAYOUT PLAN

DESIGNED BY: DJF | PROJECT NO.: 14.700003
CHECKED BY: DJF | DATE: 3/17/2015
DRAWN BY: PMD | SCALE: 1"=100'
DRAWING:

SHEET 3 of 54



YOUR GOALS. OUR MISSION

Corporate Headquarters
11 Tindall Road
Middletown, NJ 07748
www.tandmassociates.com
Offices Locally in:
Delaware, Indiana, Kentucky, Massachusetts, Michigan, New Jersey, Ohio and Pennsylvania

David J. Fleming, P.E.
Vice President
LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE NO. 24GE03231600
3/15/2018

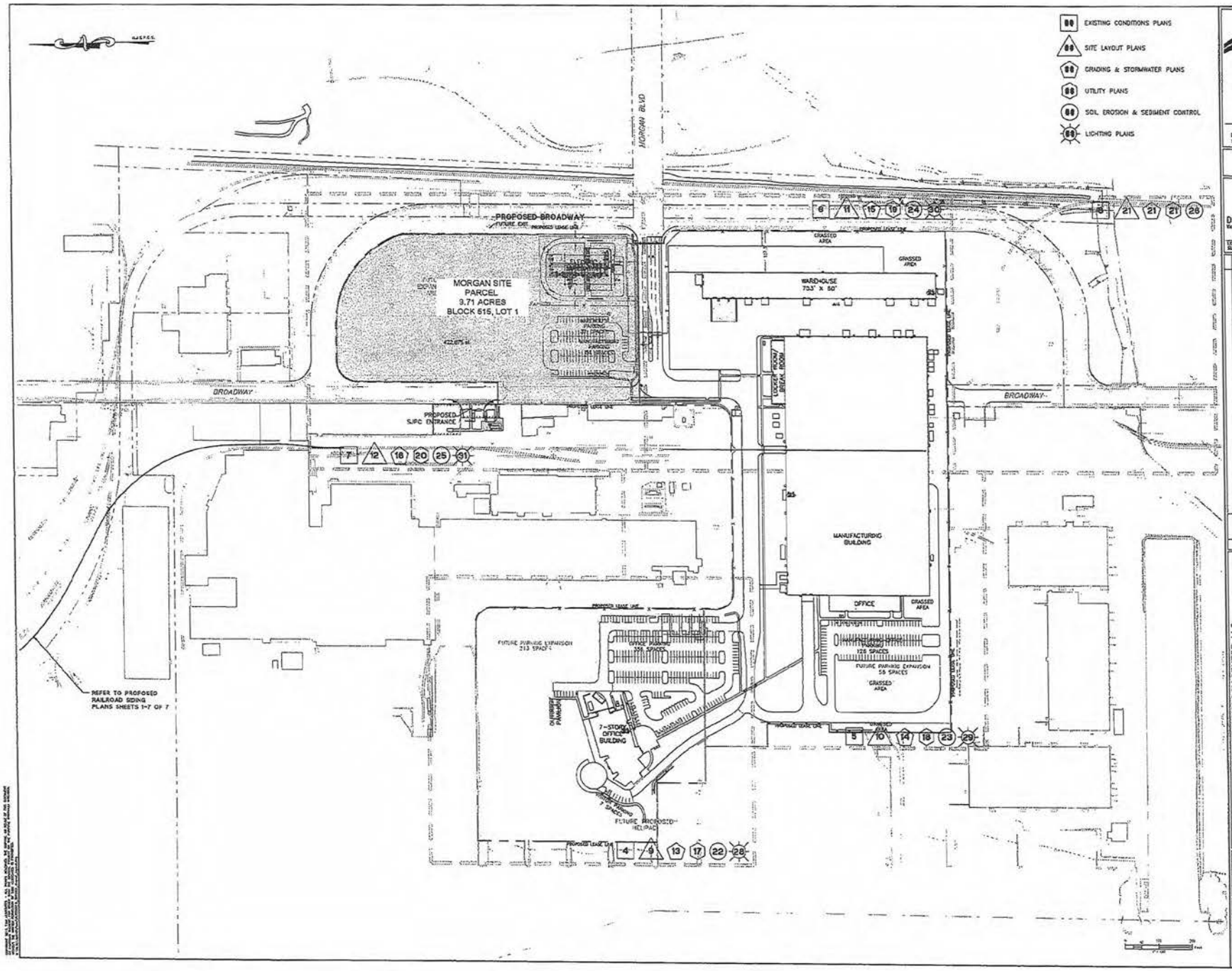
8	9/25/18	FINAL CONSTRUCTION PLANS	MS
7	7/27/18	REVISED PER OWNER & CONSULTANT'S COMMENTS	MS
6	6/29/18	GENERAL REVISIONS	MS
5	5/8/18	REVISED PER OWNER & CONSULTANT'S COMMENTS	MS
4	4/11/18	REVISED PER NJDEP COMMENTS	MS
3	3/16/18	REVISED PER OWNER'S COMMENTS	MS
2	3/2/18	REVISED PER NJDEP COMMENTS	MS
1	2/7/18	REVISED PER OWNER'S COMMENTS	MS
NO.	DATE	REVISIONS	BY

HOLTEC TECHNOLOGY CENTER, LLC
HOLTEC TECHNOLOGY CENTER
BLOCK 457 - LOT 16, P/O BLOCK 455 - LOT 1
BLOCKS 511, 512, 514 AND 515
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

OVERALL LAYOUT PLAN

DESIGNED BY: DJL | PROJECT NO.: HLTEC0002
CHECKED BY: DJL | DATE: 3/15/2018
DRAWN BY: PJD | SCALE: 1" = 100'

SHEET 3 of 54



YOUR GOALS. OUR MISSION.

Corporate Headquarters
11 Tindall Road
Middletown, NJ 07748

www.landmassociates.com

David J. Fleming, P.E.
Vice President
LICENSED PROFESSIONAL ENGINEER
STATE OF NJ LICENSE NO. 24GE03226400
5/15/2018

NO	DATE	REVISIONS	BY
1	4/1/15	REVISED PER OWNER'S COMMENTS	FPG
2	5/11/15	REVISED PER CITY'S & AGENCY COMMENTS	FPG
3	7/31/15	REVISED PER OWNER'S COMMENTS	FPG
4	8/11/15	REVISED PER SHEET SUBMISSION	FPG
5	3/2/16	REVISED PER OWNER'S COMMENTS	FPG
6	3/7/16	GENERAL REVISIONS	FPG
7	5/16/18	FINAL SUBMISSION PLANS	FPG

HOLTEC TECHNOLOGY CENTER, LLC

HOLTEC TECHNOLOGY CENTER
BLOCK 457 - LOT 16, P/O BLOCK 455 - LOT 1
BLOCKS 511, 512, 514 AND 515
CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

OVERALL LAYOUT PLAN

DESIGNED BY	LPL	PROJECT NO. HLT-0001
DRAWN BY	LPL	DATE 3/17/2015
CHECKED BY	FMD	SCALE 1" = 100'

SHEET 3 OF 54

Block/Lot/Qual	455. 1.	**Tax Account Id**	8815
Property Location	2500 SO BROADWAY	**Property Class**	15F - Other Exempt
Owner Name/Address	SOUTH JERSEY PORT CORPORATION	**Land Value**	27,853,000
	101 JOSEPH A BALZANO BLVD	**Improvement Value**	150,521,600
	CAMDEN, NJ 08103	**Exempt Value**	0
		Total Assessed Value	178,374,600
		Additional Lots	
Special Taxing Districts		**Deductions**	0

Block/Lot/Qual	457. 16.	**Tax Account Id**	8818
Property Location	SE BROADWAY & MORGAN	**Property Class**	15F - Other Exempt
Owner Name/Address	SOUTH JERSEY PORT CORPORATION	**Land Value**	1,388,100
	101 JOSEPH A BALZANO BLVD	**Improvement Value**	20,672,000
	CAMDEN, NJ 08103	**Exempt Value**	0
		Total Assessed Value	22,060,100
		Additional Lots	
Special Taxing Districts		**Deductions**	0

HOLD TO LIGHT TO VIEW TRUE WATERMARK IN PAPER HEAT SENSITIVE RED LOCK DISAPPEARS WHEN HEATED

5383

HOLTEC TECHNOLOGY CENTER LLC
1 HOLTEC BLVD.
CAMDEN, NJ 08104

BMO BANK N.A.
CHICAGO, ILLINOIS
2-28/710

SECURED BY EZSHIELD

DATE
04/20/2026

AMOUNT
$

PAY TO THE ORDER OF:
CITY OF CAMDEN
City Of Camden
PO BOX 95120
Camden NJ 08101
Camden NJ 08101

Five hundred and 00/100 Base Currency. **********

500.00

VOID AFTER 90 DAYS

AUTHORIZED SIGNATURE

Security features. Details on back.

⑈005383⑈ ⑆071000288⑆ 2797843⑈

HOLD TO LIGHT TO VIEW TRUE WATERMARK IN PAPER HEAT SENSITIVE RED LOCK DISAPPEARS WHEN HEATED

5381

HOLTEC TECHNOLOGY CENTER LLC
1 HOLTEC BLVD.
CAMDEN, NJ 08104

BMO BANK N.A.
CHICAGO, ILLINOIS
2-28/710

SECURED BY EZSHIELD

DATE
04/20/2026

AMOUNT
$

PAY TO THE ORDER OF:
CITY OF CAMDEN
City Of Camden
PO BOX 95120
Camden NJ 08101
Camden NJ 08101

One thousand one hundred thirty-seven and 58/100 Base Currency. **********

1,137.58

VOID AFTER 90 DAYS

AUTHORIZED SIGNATURE

Security features. Details on back.

⑈005381⑈ ⑆071000288⑆ 2797843⑈

HOLD TO LIGHT TO VIEW TRUE WATERMARK IN PAPER HEAT SENSITIVE RED LOCK DISAPPEARS WHEN HEATED

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CAMDEN, NJ 08104

BMO BANK N.A.
CHICAGO, ILLINOIS
2-28/710

SECURED BY EZSHIELD

DATE
04/20/2026

AMOUNT
$

PAY TO THE ORDER OF:

Three thousand six hundred thirteen and 23/100 Base Currency. ********** 3,613.23

CITY OF CAMDEN
City Of Camden
PO BOX 95120
Camden NJ 08101
Camden NJ 08101

VOID AFTER 90 DAYS

AUTHORIZED SIGNATURE

Security features. Details on back.

⑈005382⑈ ⑆071000288⑆ 2797843⑈

HOLD TO LIGHT TO VIEW TRUE WATERMARK IN PAPER HEAT SENSITIVE RED LOCK DISAPPEARS WHEN HEATED

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HOLTEC TECHNOLOGY CENTER LLC
1 HOLTEC BLVD.
CAMDEN, NJ 08104

BMO BANK N.A.
CHICAGO, ILLINOIS
2-28/710

SECURED BY EZSHIELD

DATE
04/20/2026

AMOUNT
$

PAY TO THE ORDER OF:

Eighty-seven and 30/100 Base Currency. ********** 87.30

CITY OF CAMDEN
City Of Camden
PO BOX 95120
Camden NJ 08101
Camden NJ 08101

VOID AFTER 90 DAYS

AUTHORIZED SIGNATURE

Security features. Details on back.

⑈005384⑈ ⑆071000288⑆ 2797843⑈

AMENDED TRAFFIC IMPACT STUDY

HOLTEC TECHNOLOGY CENTER ROAD WIDENING AND BUILDING EXPANSION

2360 South Broadway
City of Camden, Camden County, New Jersey

Prepared For:

Holtec Technology Center, LLC
1 Holtec Boulevard
Camden, NJ 08104

Submitted By:

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Proj. No. USATX24001
April 22, 2026

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Introduction

Pennoni Associates, Inc., has completed a Traffic Impact Study (TIS) associated with a proposed expansion of Holtec's facility and parking area adjacent to the main manufacturing facility and the widening of the Holtec Boulevard between the Delaware River and Port Access Road in the City of Camden, Camden County, New Jersey. The proposed building expansion is approximately 71,680 SF of new manufacturing space and is intended to enclose an area that is currently used for the storage of materials. The proposed expansion of the parking lot adjacent to the manufacturing building will add 32 parking spaces. The widening of Holtec Boulevard is to provide six (6) angled parking spaces for short-term trailer storage.

The development is anticipated to be completed in 2027.

The study area is depicted in **Figure 1** and the overall facility site plan with the expansion identified is depicted on **Figure 2**.

Study Area

The study area defined for this TIS includes the following intersections:

- Broadway (CR 551) and Chelton Avenue
- Broadway (CR 551) and Holtec Driveway
- Broadway (CR 551) and Holtec Boulevard/Morgan Boulevard
- Holtec Boulevard/Morgan Boulevard and I-676 SB Ramp/Covanta Driveway
- Morgan Boulevard and I-676 NB Ramp/Master Street

The signal timings for Broadway (CR 551) and Holtec Boulevard, Holtec Boulevard/Morgan Boulevard and I-676 SB Ramp/Covanta Driveway, and Morgan Boulevard and I-676 NB Ramp/Master Street were obtained from NJDOT.

Existing Roadway Facilities

The existing roadways within the study area are summarized below:

- **Broadway (CR 551) –** Broadway (CR 551) is a north-south oriented roadway and falls under both Urban Minor Arterial and Urban Principal Arterial roadway classifications within the study area. Broadway (CR 551) is of varying width and designated as a two-way. Within the study area, Broadway (CR 551) consists of one (1) travel lane in each direction and no parking on either side of the roadway. Sidewalk is present intermittently on both sides of the roadway. The speed limit is unposted on Broadway (CR 551), but is assumed to be 25 MPH.
- **Holtec Boulevard/Morgan Boulevard –** Holtec Boulevard/Morgan Boulevard is an east-west oriented roadway and falls under both Urban Minor Arterial and Urban Principal Arterial roadway classifications within the study area. Holtec Boulevard/Morgan Boulevard is of varying width and designated as a two-way. Within the study area, Holtec Boulevard/Morgan Boulevard consists of one (1) or more travel lanes in each direction and no parking on either side of the roadway. Sidewalk is present intermittently on both sides of the roadway. The speed limit is unposted on Holtec Boulevard/Morgan Boulevard, but is assumed to be 25 MPH.
- **I-676 Off Ramps –** The I-676 Off Ramps are north-south Urban Interstate roadways. Both ramps are approximately 26' wide and designated as a one-way. Within the study area, both ramps consist of two (2) travel lanes in the northbound and southbound directions, respectively, and no parking on either side of both roadways. There is no sidewalk present on either side of either roadway. While the speed limit is unposted on either ramp, it is assumed to be 25 MPH.
- **Chelton Avenue –** Chelton Avenue is an east-west Urban Local roadway. Chelton Avenue is approximately 29' wide and designated as a two-way. Within the study area, Chelton Avenue consists of travel lanes in the eastbound and westbound direction with no parking on either side of the roadway. Sidewalk is present intermittently on both sides of the roadway. The speed limit is unposted on Chelton Avenue, but assumed to be 25 MPH.

Existing Intersections

The existing intersections within the study area are summarized below:

- **Broadway (CR 551) and Chelton Avenue –** The intersection of Broadway (CR 551) and Chelton Avenue is an unsignalized intersection. The eastbound and westbound approaches both consist of one (1) shared left/through/right turn lane. The

northbound and southbound approaches both consist of one (1) shared left/through/right lane. The eastbound and westbound approaches of Chelton Avenue are stop controlled.

- Broadway (CR 551) and Holtec Driveway – The intersection of Broadway (CR 551) and Holtec Driveway is an unsignalized intersection. The westbound approach consists of one (1) dedicated left lane and one (1) dedicated right lane. The northbound approach consists of one (1) shared through/right lane. The southbound approach consists of one (1) shared left/through lane. The northbound approach of Holtec Driveway is stop controlled.
- Broadway (CR 551) and Holtec Boulevard/Morgan Boulevard – The intersection of Broadway (CR 551) and Holtec Boulevard/Morgan Boulevard is a signalized intersection. Both the eastbound and westbound approaches consist of one (1) dedicated left lane, one (1) dedicated through lane, and one (1) shared through/right lane. The northbound approach consists of one (1) dedicated left lane, one (1) dedicated through lane, and one (1) dedicated right lane. The southbound approach consists of one (1) dedicated left lane and one (1) shared through/right lane. The traffic signal is a 4-phase signal with push buttons for crossing Broadway and Holtec Boulevard. It is linked with the Holtec Boulevard/Morgan Boulevard and I-676 SB Ramp/Covanta Driveway intersection under one controller.
- Morgan Boulevard and I-676 SB Ramp/Covanta Driveway – The intersection of Holtec Boulevard/Morgan Boulevard and I-676 SB Ramp/Covanta Driveway is a signalized intersection. The westbound approach consists of one (1) dedicated left lane, and two (2) dedicated through lanes. The northbound approach consists of one (1) shared left/right lane. The southbound approach consists of one (1) dedicated left lane, and one (1) shared through/right lane. The traffic signal is a 4-phase signal with push buttons for crossing I-676 SB Ramp/Covanta Driveway. It is linked with the Broadway (CR 551) and Holtec Boulevard intersection under one controller.
- Morgan Boulevard and I-676 NB Ramp/Master Street – The intersection of Morgan Boulevard and I-676 NB Ramp/Master Street is a signalized intersection. The eastbound approach consists of two (2) dedicated through lanes. The westbound approach consists of one (1) dedicated through lane, and one (1) shared through/right lane. The northbound approach consists of one (1) dedicated left turn lane, and one (1) shared left/through lane. The southbound approach consists of one (1) shared left/right lane. The traffic signal is a 3-phase signal.

Data Collection

Manual turning movement counts were conducted on Tuesday, June 17th, 2025, during the AM peak period between 7:00 – 9:00 AM and during the PM peak period between 4:00 – 6:00 PM at the intersections of:

- Broadway (CR 551) and Chelton Street
- Broadway (CR 551) and Holtec Driveway
- Broadway (CR 551) and Holtec Boulevard
- Morgan Boulevard and I-676 SB Ramp/Covanta Driveway
- Morgan Boulevard and I-676 NB Ramp/Master Street

The turning movement counts are provided in Appendix A.

Study Methodology

Capacity Analysis

Two analysis years are being considered: existing baseline traffic conditions and opening year analysis. The opening year analyses includes an assessment of the operational conditions of the study intersections under “No Build” and “Build” scenarios.

The performance of the study intersections for each analysis scenario was evaluated through a qualitative measure of operating conditions called Levels of Service (LOS). Six Levels of Service (LOS) are defined with letter designations from ‘A’ to ‘F’ with Level of Service ‘A’ representing delays up to ten seconds and Level of Service ‘F’ indicating delays exceeding eighty seconds. Level of Service ‘C’ or better is considered acceptable, with a threshold of Level of Service ‘D’ in urban areas. Levels of Service are determined through analysis procedures outlined in the *Highway Capacity Manual, 7th Edition* (Transportation Research Board, Washington, D.C.). Under certain circumstances, *HCM 7th Edition* cannot be used to analyze an intersection due to certain restrictions such as a signal with non-NEMA phasing or an intersection that has U-turns; under those circumstances, Synchro *Lanes, Volumes, and Timings* output methodologies will be utilized.

Levels of Service for signalized intersections are based on average delay experienced by motorists passing the intersection. The delay is based on the results of the capacity analysis (rate of demand flow to capacity) and other important variables such as quality of progression, cycle length, and ratio of green time.

Levels of Service for unsignalized intersections are defined in terms of delay to vehicles entering from the side road and turning left from a major road. Delay is a function of the capacity of the approach and degree of saturation. The capacity is based on the distribution of gaps in the major street traffic stream, driver judgment in selecting a gap through which to execute the desired maneuver, and follow-up time required by each driver in a queue.

The Level of Service Criteria for signalized and unsignalized intersections is provided in Table 1 and Table 2.

Table 1- Level of Service Criteria for Signalized Intersections

Level of Service	Control Delay (Seconds per Vehicle)
A	≤ 10
B	>10-20
C	>20-35
D	>35-55
E	>55-80
F	>80

Table 2- Level of Service Criteria for Unsignalized Intersections

Level of Service	Control Delay (Seconds per Vehicle)
A	0-10
B	>10-15
C	>15-25
D	>25-35
E	>35-50
F	>50

The operational analyses of the study intersections under all conditions were performed using the *Synchro* Version 12 software.

2025 Existing Conditions

Analysis of Existing Conditions

Capacity Analysis

Under the 2025 Existing Conditions, all study intersections operate at a LOS D or better and all approaches/movements operate at a LOS D or better except for the southbound approach of the I-676 SB Off-Ramp at the intersection of Morgan Boulevard and I-676 SB Off-Ramp/Covanta Driveway which operates at LOS F (85.2 sec.) during the PM peak period.

The results of the capacity analysis are summarized in **Table 3**. *Synchro HCM 7th Edition* output summaries for the 2025 Existing Condition can be found in **Appendix B.**

Figure 3 illustrates the projected 2025 Existing Condition traffic volumes.

Table 3 – 2025 Existing Condition Delay and LOS

Intersection	Approach	AM Peak Hour		PM Peak Hour	
		LOS	Delay (sec)	LOS	Delay (sec)
Broadway (CR 551) & Chelton Street (unsignalized)	EB Approach	B	10.9	B	11.9
	WB Approach	B	10.1	B	11.7
	NB Approach	A	0.1	A	0.2
	SB Approach	A	3.1	A	2.2
	Overall	**A**	**3.9**	**A**	**4.4**
Broadway (CR 551) & Holtec Driveway (unsignalized)	NB Approach	A	8.9	A	9.2
	Overall	**A**	**2.2**	**A**	**2.1**
Broadway (CR 551) & Holtec Boulevard/Morgan Boulevard (signalized)	EB Approach	D	38.5	D	45.8
	WB Approach	A	0.8	A	5.1
	NB Approach	D	46.8	D	41.4
	SB Approach	D	48.0	D	47.7
	Overall	**C**	**19.4**	**C**	**30.6**
Morgan Boulevard & I-676 SB Off-Ramp/Covanta Driveway (signalized)	EB Approach	A	0.3	A	0.8
	WB Approach	D	47.6	D	44.4
	NB Approach	A	0.6	A	0.5
	SB Approach	D	36.4	F	85.2
	Overall	**C**	**32.3**	**D**	**49.2**
Morgan Boulevard & I-676 NB Off-Ramp/Master Street (signalized)	EB Approach	B	7.4	A	7.6
	WB Approach	B	7.8	A	7.7
	NB Approach	C	32.1	C	29.2
	SB Approach	D	49.6	D	50.1
	Overall	**C**	**22.6**	**B**	**18.3**

2027 No Build Conditions

Background Growth

To account for general traffic growth in the area, an annual background growth rate is applied to existing traffic volumes on the study area roadways. An annual background growth rate of 2.25% for Urban Principal Arterials and 1.00% for Urban Local roadways in Camden County have been established by NJDOT.

No adjacent developments were identified that would have an additional significant adverse impact on the adjacent roadway network. The established NJDOT background growth rates were conservatively used to account for any increase in background traffic growth.

Figure 4 illustrates the projected 2027 No-Build Conditions traffic volumes.

Analysis of No Build Conditions

Capacity Analysis

Under the 2027 No-Build Conditions, all study intersections operate at a LOS D or better and all approaches/movements operate at a LOS D or better except for the southbound approach of the I-676 SB Off-Ramp at the intersection of Morgan Boulevard and I-676 SB Off-Ramp/Covanta Driveway which continues to operate at LOS F (96.3 sec.) during the PM peak period.

The results of the capacity analysis are summarized in **Table 4**. *Synchro HCM 7th Edition* output summaries for the 2027 No-Build Conditions can be found in **Appendix C.**

Table 4 - 2027 No-Build Condition Delay and LOS

Intersection	Approach	AM Peak Hour		PM Peak Hour	
		LOS	Delay (sec)	LOS	Delay (sec)
Broadway (CR 551) & Chelton Street (unsignalized)	EB Approach	B	11.1	B	12.0
	WB Approach	B	10.3	B	12.0
	NB Approach	A	0.1	A	0.2
	SB Approach	A	3.1	A	2.2
	Overall	**A**	**3.9**	**A**	**4.5**
Broadway (CR 551) & Holtec Driveway (unsignalized)	NB Approach	A	9.1	A	9.3
	Overall	**A**	**2.3**	**A**	**2.2**
Broadway (CR 551) & Holtec Boulevard/Morgan Boulevard (signalized)	EB Approach	D	39.0	D	46.3
	WB Approach	A	0.9	A	5.4
	NB Approach	D	47.5	D	41.6
	SB Approach	D	48.9	D	48.28
	Overall	**B**	**19.8**	**C**	**31.1**
Morgan Boulevard & I-676 SB Off-Ramp/Covanta Driveway (signalized)	EB Approach	A	0.5	A	0.8
	WB Approach	D	49.3	D	44.5
	NB Approach	A	0.6	A	0.5
	SB Approach	D	37.7	F	96.3
	Overall	**C**	**33.6**	**D**	**52.1**
Morgan Boulevard & I-676 NB Off-Ramp/Master Street (signalized)	EB Approach	A	7.7	A	7.9
	WB Approach	A	8.1	A	8.0
	NB Approach	C	32.3	C	29.4
	SB Approach	D	54.0	D	54.5
	Overall	**C**	**23.6**	**B**	**19.4**

Analysis of No-Build – Optimized Conditions

Under No-Build conditions with the existing signal timings, there are reported LOS F (90.6 sec.) for the southbound approach of the I-676 SB Off-Ramp at the Morgan Boulevard signal in the PM peak period. The approach LOS F is a result of the delay on southbound left turn lane (140.5 sec.). The timings at the intersection of I-676 SB Off-Ramp at the Morgan Boulevard have been optimized in the No-Build condition utilizing *Synchro 12* software's "optimize splits" functionality to mitigate the existing LOS F. The optimization of the timings, which involves shifting 9 seconds from Broadway (CR 551) Phase to the I-676 ramp phase, improves the movement to LOS E and improves the approach to LOS D.

The below **Table 5** provides the optimized intersection delays for the intersection of Morgan Boulevard and I-676 SB Off-Ramp and the intersection of Holtec Boulevard/Morgan Boulevard and Broadway (CR 551), which are operated by the same controller. The *Synchro 12* output summaries can be found in **Appendix D**.

Table 5 - 2027 No-Build Condition Delay and LOS - Optimized

Intersection	Approach	AM Peak Hour		PM Peak Hour	
		LOS	Delay (sec)	LOS	Delay (sec)
Broadway (CR 551) & Holtec Boulevard/Morgan Boulevard (signalized)	EB Approach	D	41.3	D	49.6
	WB Approach	A	0.9	A	4.4
	NB Approach	D	51.7	D	50.2
	SB Approach	D	53.4	E	62.4
	Overall	**C**	**21.4**	**D**	**36.5**
Morgan Boulevard & I-676 SB Off-Ramp/Covanta Driveway (signalized)	EB Approach	A	0.6	A	1.2
	WB Approach	D	51.2	D	46.7
	NB Approach	A	0.6	A	0.3
	SB Approach	C	32.9	D	36.0
	Overall	**C**	**32.4**	**C**	**23.2**

2027 Build Conditions

Development Description

The proposed building expansion is approximately 71,680 SF of manufacturing space added onto an existing warehouse building and will result in the addition of 50 new employees. The proposed expansion of the parking lot adjacent to the manufacturing building will add 32 parking spaces. The proposed parking lot expansion is consistent with the original site plan approved in 2016 and the resulting number of parking spaces at the manufacturing building (104) will still be less than originally approved. The widening of Holtec Boulevard is to provide six (6) angled parking spaces for short-term trailer storage.

The proposed expansion is depicted on **Figure 2**.

Trip Generation

The trips generated by the building expansion were estimated in accordance with the methodology outlined in the Institute of Transportation Engineers (ITE) *Trip Generation Manual, 12th Edition*. ITE defines a trip as a "single or one-direction vehicle movement with either the origin or the destination (exiting or entering) inside a study site." The trip generation was calculated for the Land Use Code 140 – Manufacturing, which is described as a location where the primary activity is the conversion of raw materials or parts into finished products.

Table 6 below provides a breakdown of the estimated vehicular trips generated by the building expansion during the roadway peak period (7:00 AM – 9:00 AM and 4:00 PM – 6:00 PM):

Table 6 - Trip Generation

Land Use Description	Independent Variable	AM Peak			PM Peak		
		In	Out	Total	In	Out	Total
LUC 140 – Manufacturing	1000 Sq. Ft. GFA	27	10	37	13	32	45

Summaries of the trip generation are provided in **Appendix E**.

The parking lot expansion at the manufacturing building and the widening of Holtec Boulevard to provide six (6) angled parking spaces for short-term trailer storage are intended to provide additional capacity and service existing traffic within the site. As such, those improvements will not generate any new site trips.

The NJ State Highway Access Code defines a significant increase in traffic as 100 or more new peak hour trips. The proposed building expansion will generate a maximum of 45 new peak hour trips and therefore will not result in a significant increase in traffic on the adjacent roadway network.

Trip Distribution

The distribution of new trips associated with the building expansion is based on the existing roadway network patterns. The distribution and site trips are provided in Figure 5 and Figure 6.

Figure 7 illustrates the projected 2027 Build traffic volumes.

Analysis of Build Conditions

Capacity Analysis

The impact of the proposed building expansion was evaluated for the AM and PM roadway peak periods utilizing the optimized signal timings at the intersections of Holtec Boulevard/Morgan Boulevard and Broadway (CR 551) and Morgan Boulevard and I-676 SB Off-Ramp/Covanta Driveway. Under the Build Conditions, all study intersections continue to operate at an overall LOS D or better and all approaches operate at a LOS D or better with the following exceptions:

- The southbound approach of Broadway (CR 551) at the intersection of Holtec Boulevard/Morgan Boulevard and Broadway (CR 551) continues to operate at LOS E during the PM peak period with delays of 65.4 seconds.

The addition of the site trips to the roadway network does not result in a degradation in approach or overall intersection LOS and a maximum increase in approach delay of 3.3 seconds and maximum increase in overall intersection delay of 2.4 seconds.

The results of the capacity analysis are summarized in Table 7. *Synchro* output summaries for the 2027 Build Conditions can be found in Appendix F.

Table 7 - 2027 Build Condition Delay and LOS

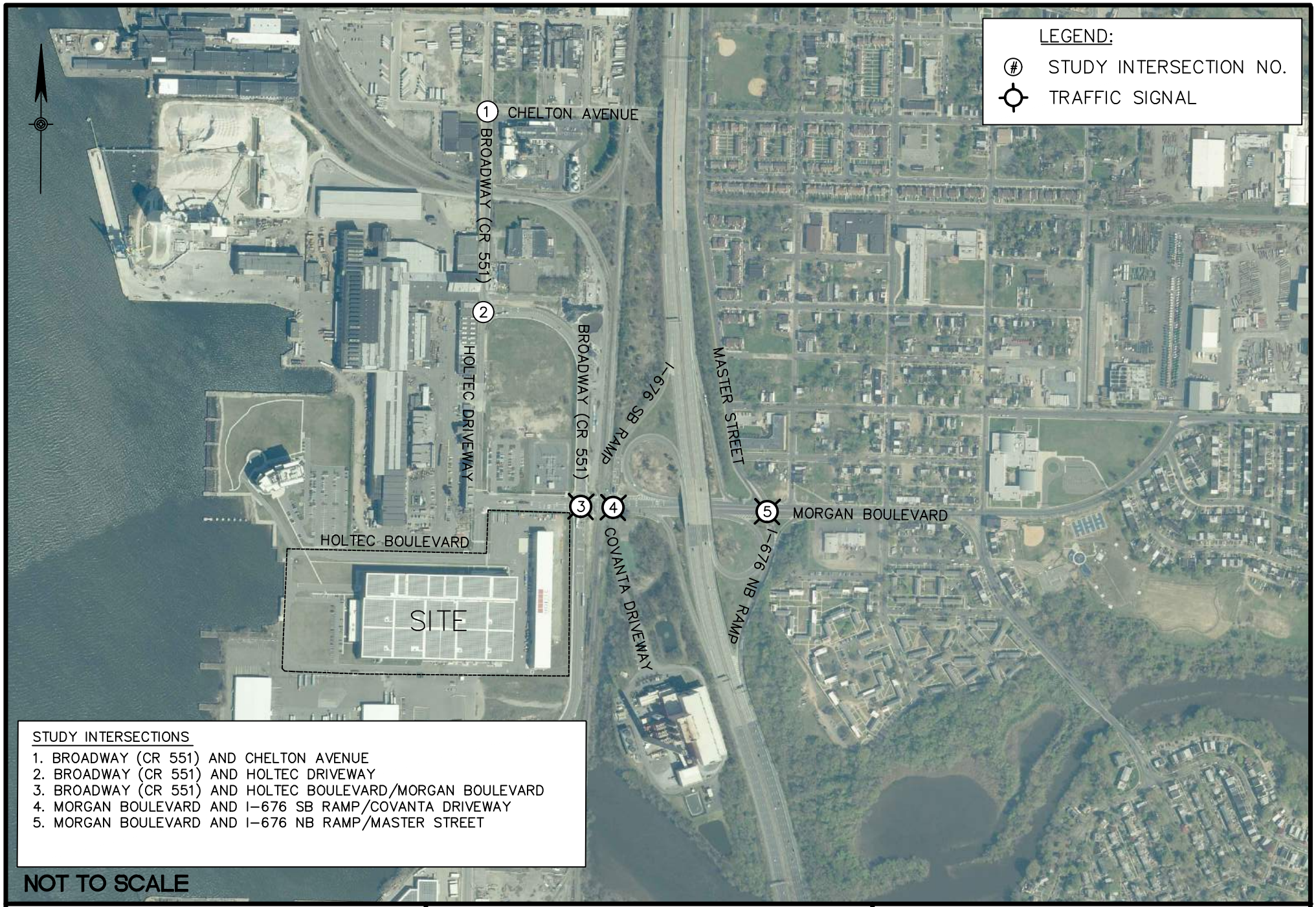
Intersection	Approach	AM Peak Hour		PM Peak Hour	
		LOS	Delay (sec)	LOS	Delay (sec)
Broadway (CR 551) & Chelton Street (unsignalized)	EB Approach	B	11.1	B	12.1
	WB Approach	B	10.3	B	12.1
	NB Approach	A	0.1	A	0.2
	SB Approach	A	3.0	A	2.2
	Overall	**A**	**3.9**	**A**	**4.5**
Broadway (CR 551) & Holtec Driveway (unsignalized)	NB Approach	A	9.1	A	9.3
	Overall	**A**	**2.2**	**A**	**2.2**
Broadway (CR 551) & Holtec Boulevard/Morgan Boulevard (signalized)	EB Approach	D	38.2	D	52.9
	WB Approach	A	0.9	A	5.2
	NB Approach	D	51.5	D	52.2
	SB Approach	D	52.5	E	65.4
	Overall	**C**	**21.4**	**D**	**38.9**
Morgan Boulevard & I-676 SB Off-Ramp/Covanta Driveway (signalized)	EB Approach	A	0.7	A	1.3
	WB Approach	D	52.0	D	48.2
	NB Approach	A	0.6	A	0.3
	SB Approach	C	32.4	D	38.3
	Overall	**C**	**32.7**	**C**	**24.2**
Morgan Boulevard & I-676 NB Off-Ramp/Master Street (signalized)	EB Approach	A	7.9	A	8.0
	WB Approach	A	8.3	A	8.0
	NB Approach	C	32.2	C	29.4
	SB Approach	D	54.8	D	54.7
	Overall	**C**	**23.9**	**B**	**19.3**

Conclusions

A summary of the findings of the report is presented below:

- Under the Existing condition, the study intersections operate at LOS D or better and all study approaches operate at LOS D or better during the AM and PM peak periods with the exception of the southbound approach of the I-676 SB Off-Ramp at the intersection of Morgan Boulevard and I-676 SB Off-Ramp/Covanta Driveway which operates at LOS F (85.2 sec.) during the PM peak period.
- Under the No-Build condition with existing timings, all study intersections operate at LOS D or better and all study approaches operate at LOS D or better during the AM and PM peak periods except for the southbound approach of the I-676 SB Off-Ramp at the intersection of Morgan Boulevard and I-676 SB Off-Ramp/Covanta Driveway which continues to operate at LOS F (96.3 sec.) during the PM peak period.
- Under the optimized No-Build condition, the traffic signals at the intersections of Holtec Boulevard/Morgan Boulevard and Broadway (CR 551) and Morgan Boulevard and I-676 SB Off-Ramp/Covanta Driveway were optimized using *Synchro 12* software's "optimize splits" functionality. With signal timing optimization, the LOS F on the southbound approach of the I-676 SB Off-Ramp at the intersection of Morgan Boulevard and I-676 SB Off-Ramp/Covanta Driveway is eliminated. The southbound approach of Broadway (CR 551) at the intersection of Holtec Boulevard/Morgan Boulevard and Broadway (CR 551) operates at LOS E during the PM peak periods with a delay of 62.4 seconds.
- The parking lot expansion at the manufacturing building and the widening of Holtec Boulevard to provide six (6) angled parking spaces for short-term trailer storage will not generate any new site trips.
- The building expansion will generate 37 trips (27 in/10 out) during the morning peak period and 45 trips (13 in/32 out) during the evening peak period and will result in the addition of 50 new employees.
- Under the Build condition with optimized signal timings, the study intersections continue to operate at a LOS D or better and all approaches operate at a LOS D or better during the AM and PM peak periods with the following exceptions:
    - The southbound approach of Broadway (CR 551) at the intersection of Holtec Boulevard/Morgan Boulevard and Broadway (CR 551) continues to operate at LOS E during the AM peak period with delays of 65.4 seconds.

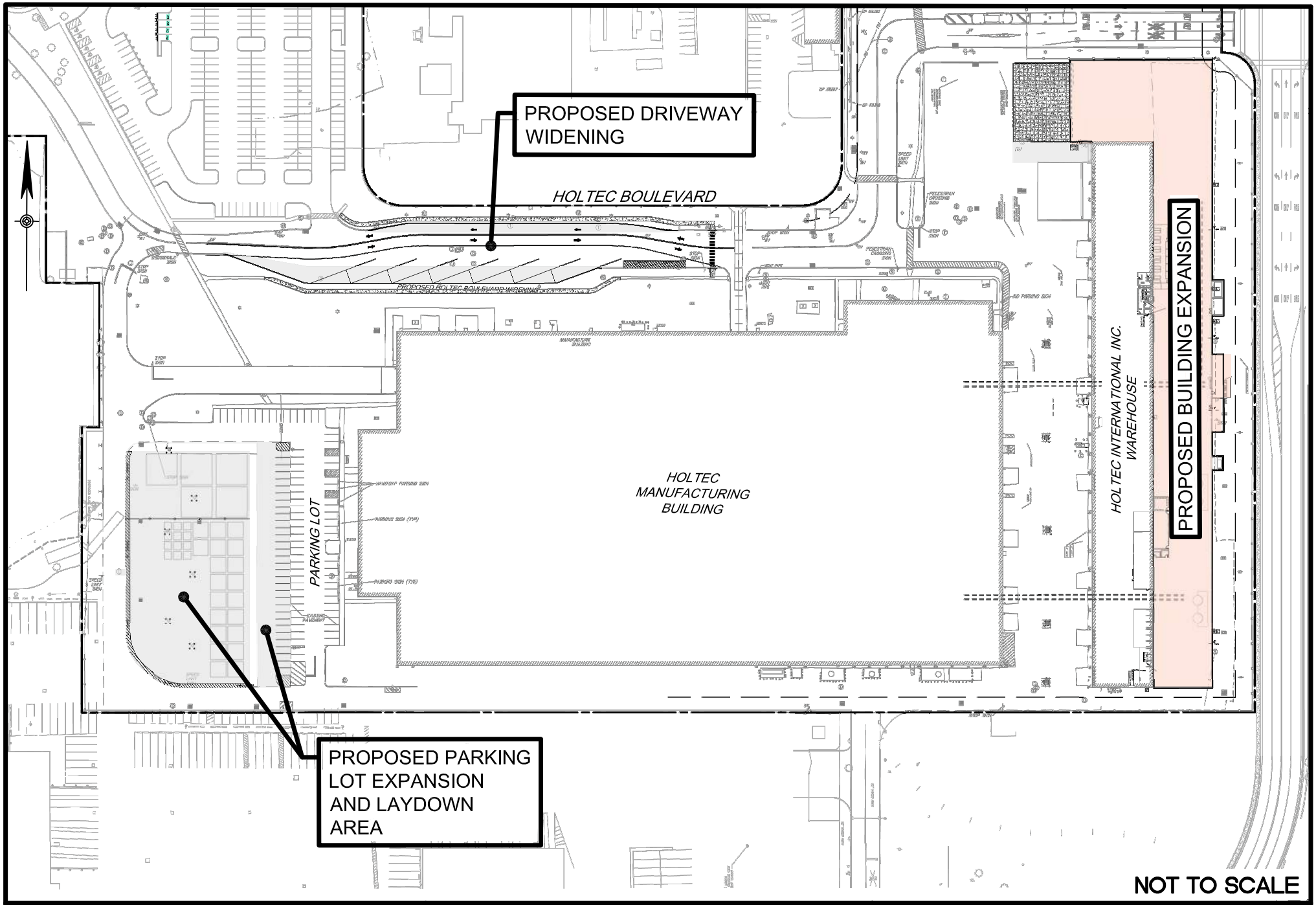
In conclusion, building expansion, parking lot expansion at the manufacturing building, and the widening of Holtec Boulevard to provide eight (8) angled parking spaces for short-term trailer storage will not result in a significant increase in traffic on the adjacent roadway network and will not result in an appreciable impact to the operation or traffic flow at the signalized and unsignalized intersections within the study area.



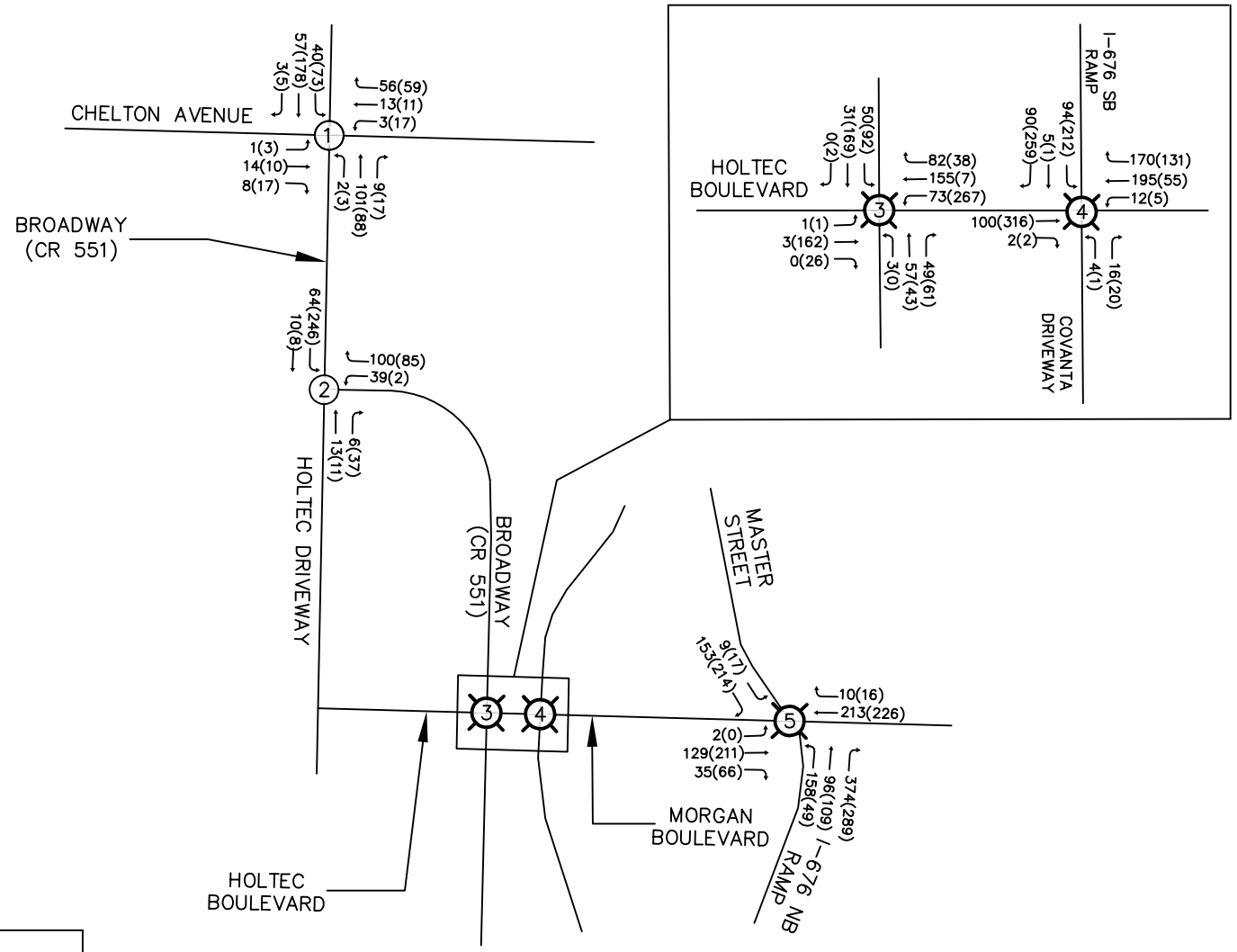
Pennoni
PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
515 GROVE STREET
HADDON HEIGHTS, NJ

HOLTEC EXPANSION
Camden, New Jersey

FIGURE 1
Project Area



Pennoni PENNONI ASSOCIATES INC. CONSULTING ENGINEERS 515 GROVE STREET HADDON HEIGHTS, NJ	**HOLTEC EXPANSION** Camden, New Jersey	**FIGURE 2** Site Plan



LEGEND:

- (#) STUDY INTERSECTION NO.
- ⟵ AM(PM)VOLUMES
- TRAFFIC SIGNAL

NOT TO SCALE

Pennoni

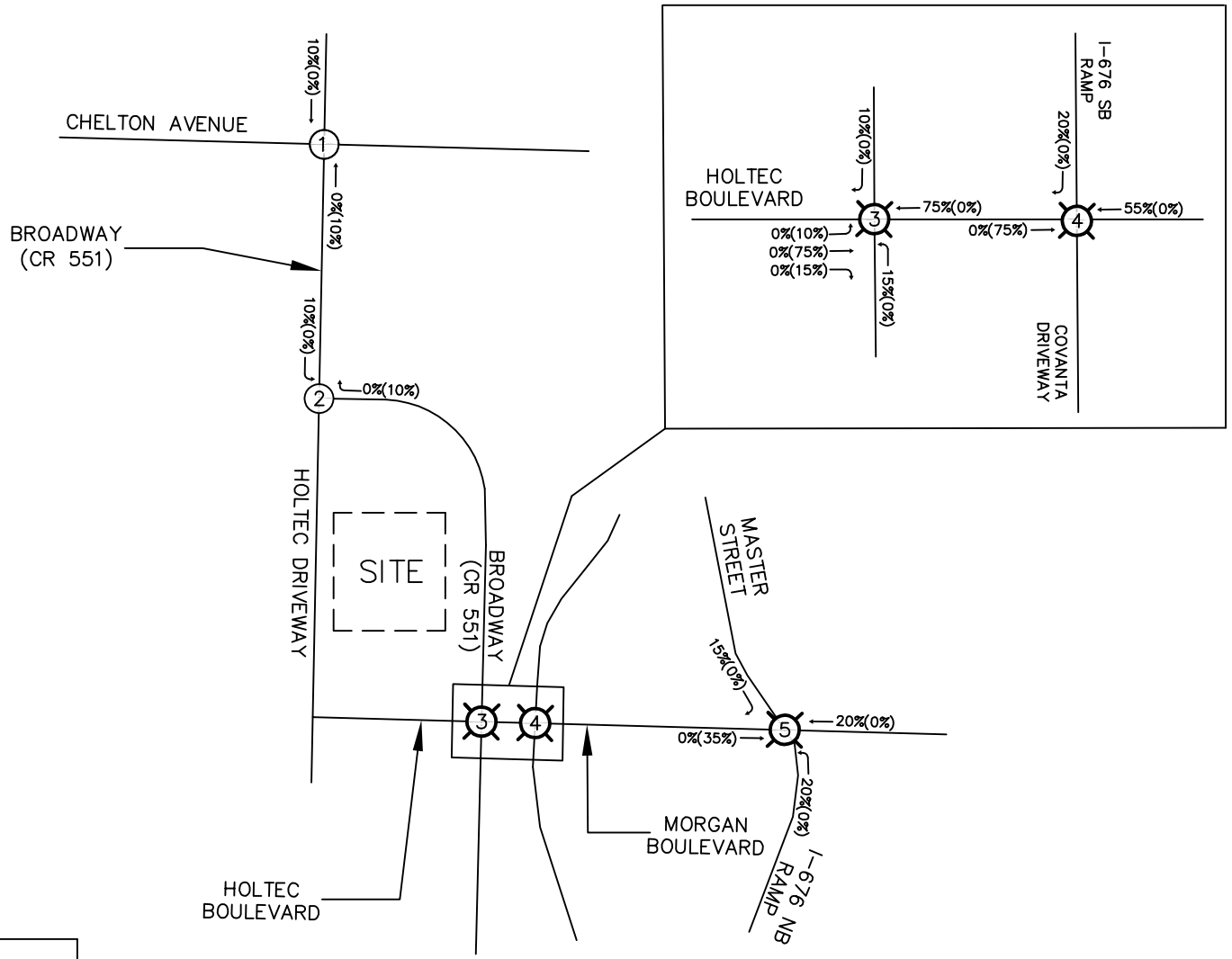
PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
515 GROVE STREET
HADDON HEIGHTS, NJ

HOLTEC EXPANSION

Camden, New Jersey

FIGURE 3

2025 Existing Condition
Peak Hour Traffic Volumes



LEGEND:

- (#) STUDY INTERSECTION NO.
- ← AM(PM)VOLUMES
- TRAFFIC SIGNAL

NOT TO SCALE

Pennoni

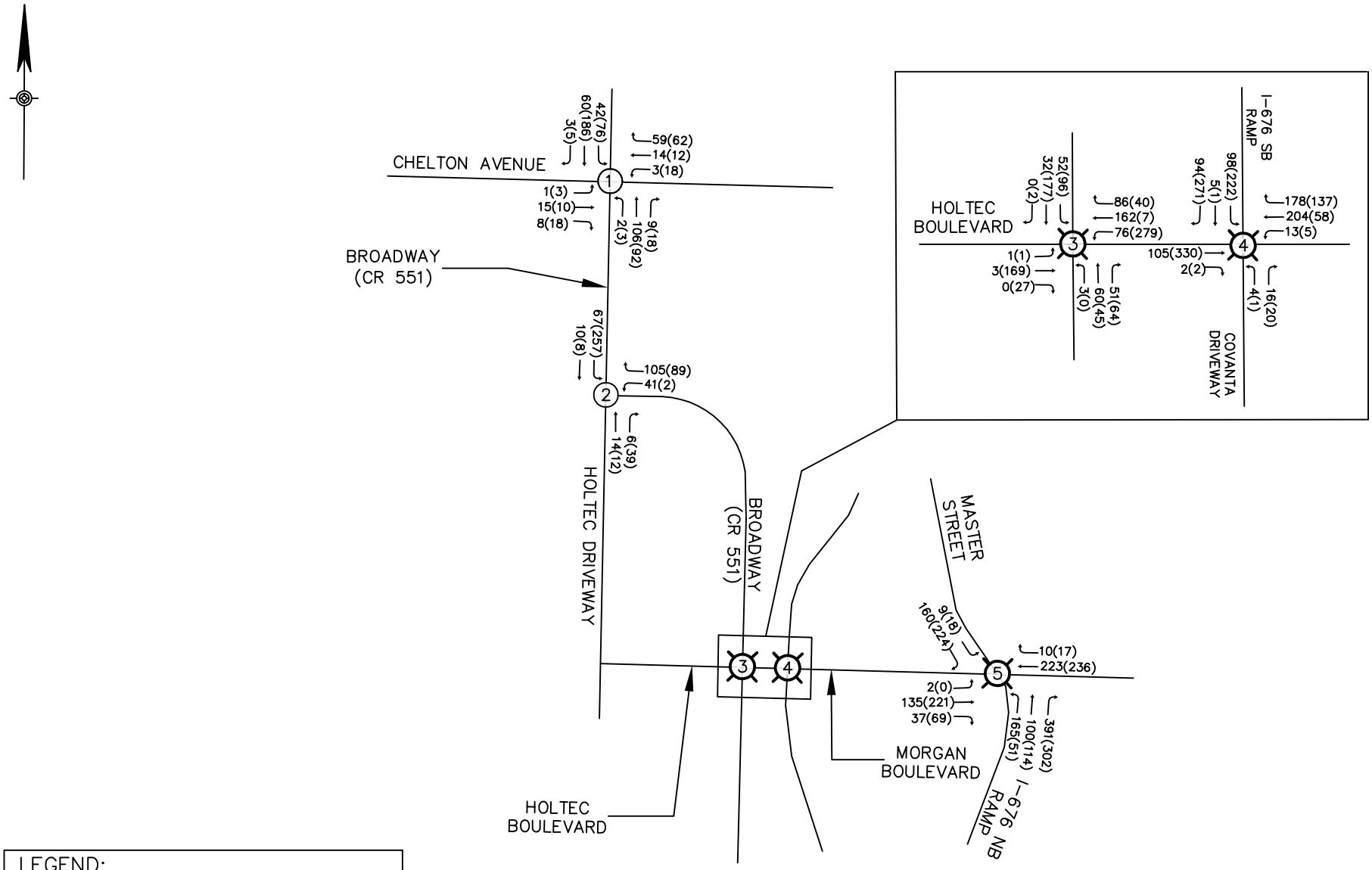
PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
515 GROVE STREET
HADDON HEIGHTS, NJ

HOLTEC EXPANSION

Camden, New Jersey

FIGURE 5

Trip Distribution



LEGEND:

- (#) STUDY INTERSECTION NO.
- ⟵ AM(PM)VOLUMES
- TRAFFIC SIGNAL

NOT TO SCALE

Pennoni

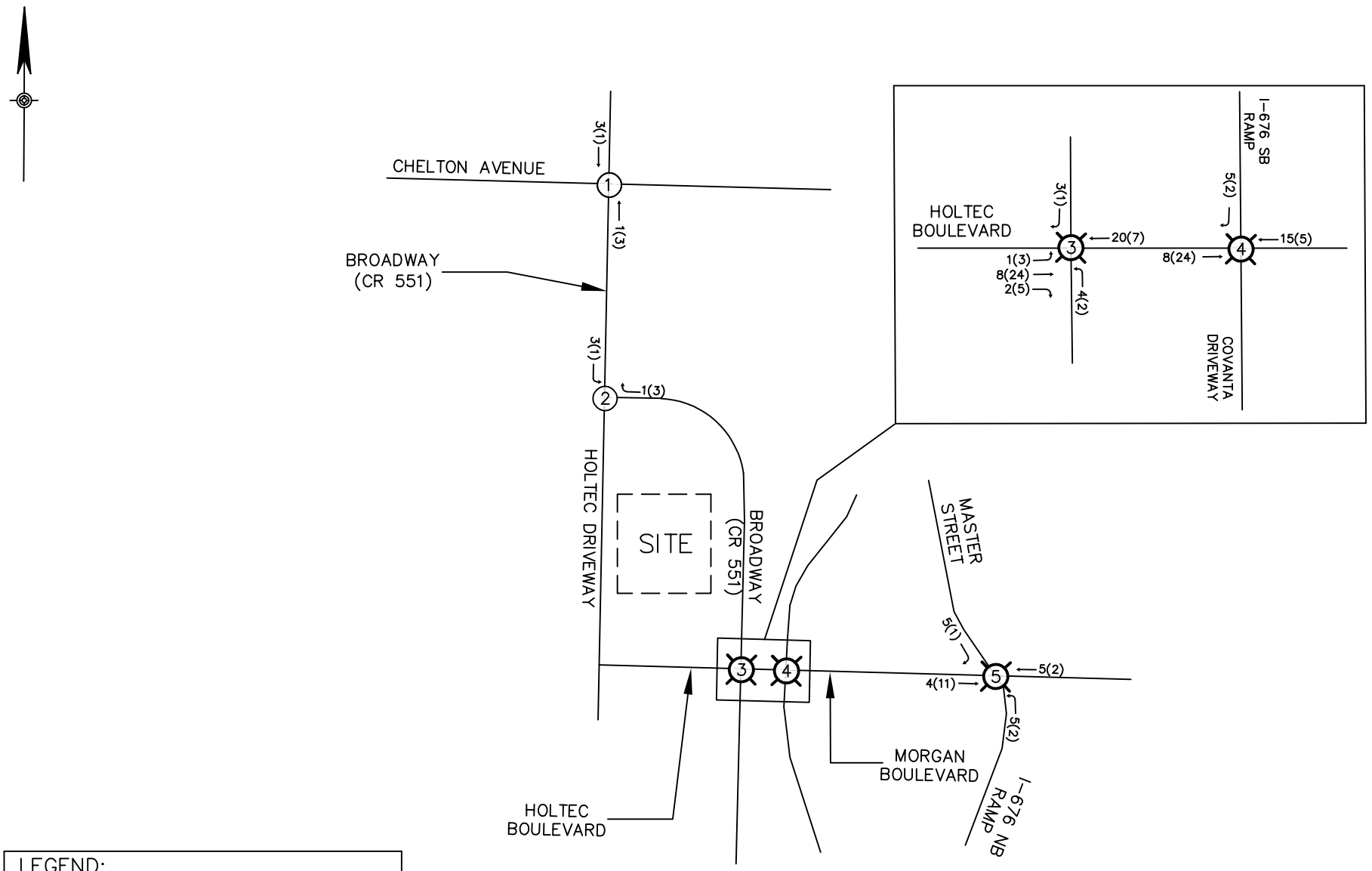
PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
515 GROVE STREET
HADDON HEIGHTS, NJ

HOLTEC EXPANSION

Camden, New Jersey

FIGURE 4

2027 No-Build Condition
Peak Hour Traffic Volumes



LEGEND:

- (#) STUDY INTERSECTION NO.
- ← AM(PM)VOLUMES
- TRAFFIC SIGNAL

NOT TO SCALE

Pennoni

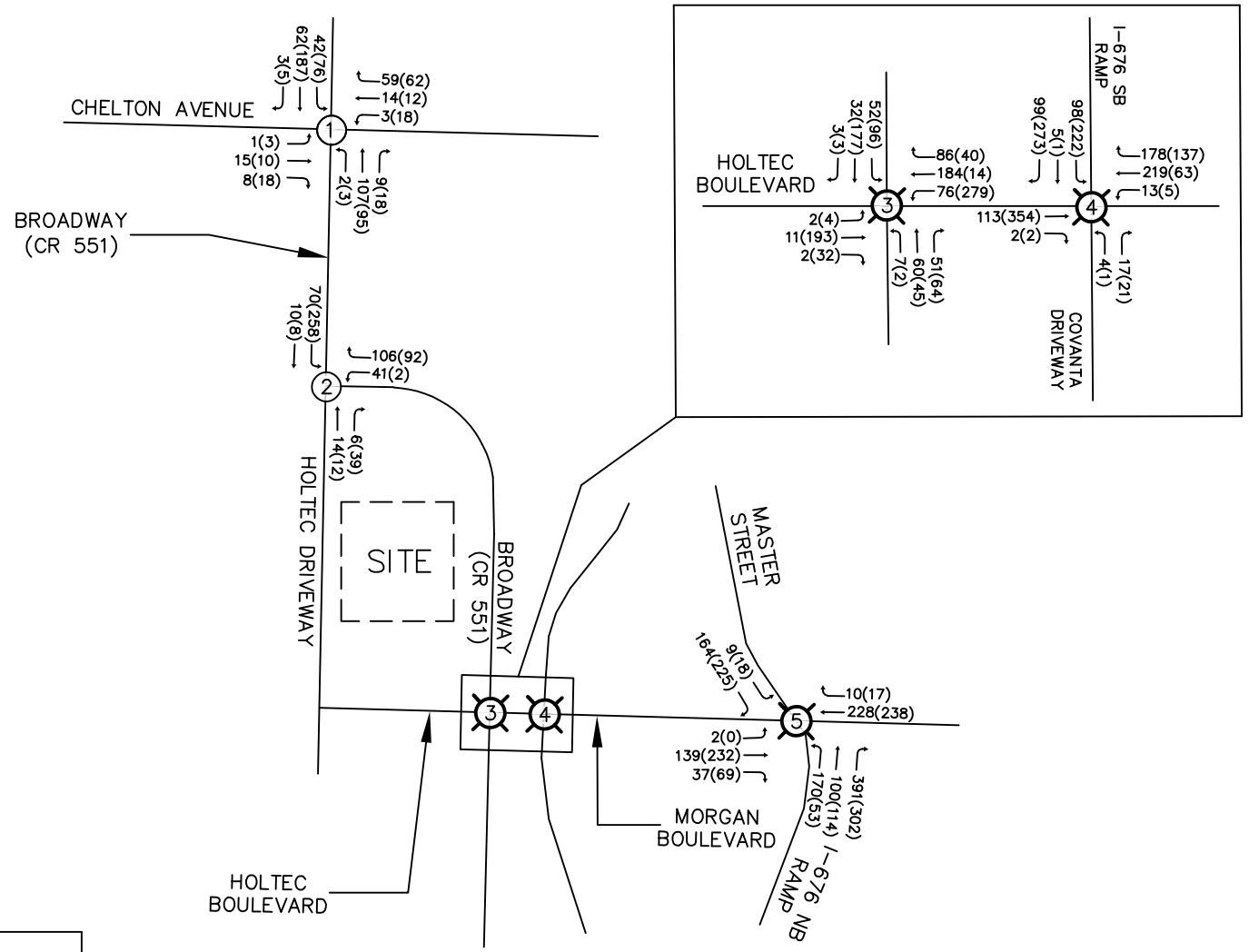
PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
515 GROVE STREET
HADDON HEIGHTS, NJ

HOLTEC EXPANSION

Camden, New Jersey

FIGURE 6

Peak Hour Site Trips



LEGEND:

- (#) STUDY INTERSECTION NO.
- ⟵ AM(PM)VOLUMES
- TRAFFIC SIGNAL

NOT TO SCALE

Pennoni

PENNONI ASSOCIATES INC.
CONSULTING ENGINEERS
515 GROVE STREET
HADDON HEIGHTS, NJ

HOLTEC EXPANSION

Camden, New Jersey

FIGURE 7

2027 Build Condition
Peak Hour Traffic Volumes

HOLTEC TECHNOLOGY CENTER ROAD WIDENING AND BUILDING EXPANSION

APPENDIX A

Data Collection

1. Broadway & Chelton Street - TMC

Tue Jun 17, 2025
Full Length (7 AM-9 AM, 2 PM-6 PM)
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1311406, Location: 39.918285, -75.119794, Site Code: 1

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US

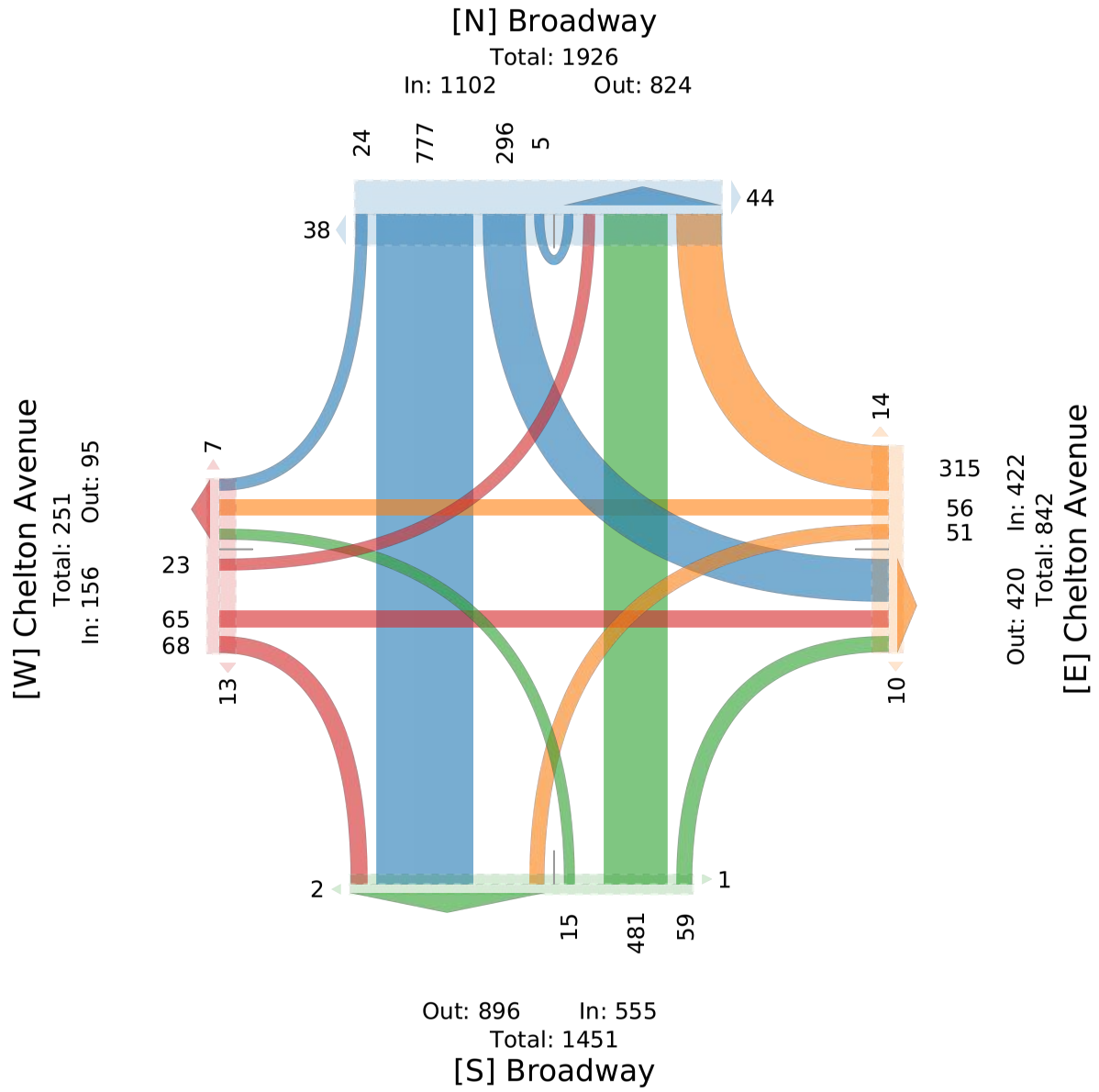
Leg Direction	Broadway Northbound						Broadway Southbound						Chelton Avenue Eastbound						Chelton Avenue Westbound						
Time	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	Int
2025-06-17 7:00AM	0	13	1	0	**14**	0	8	17	0	0	**25**	4	1	0	2	0	**3**	1	0	4	5	0	**9**	2	**51**
7:15AM	0	23	0	0	**23**	0	11	11	1	0	**23**	3	1	3	1	0	**5**	1	1	3	6	0	**10**	1	**61**
7:30AM	1	27	2	0	**30**	0	12	16	1	0	**29**	0	0	5	1	0	**6**	0	0	5	7	0	**12**	0	**77**
7:45AM	0	21	2	0	**23**	0	12	12	1	0	**25**	0	0	2	3	0	**5**	1	1	3	16	0	**20**	0	**73**
Hourly Total	1	84	5	0	**90**	0	43	56	3	0	**102**	7	2	10	7	0	**19**	3	2	15	34	0	**51**	3	**262**
8:00AM	1	35	3	0	**39**	0	9	18	0	0	**27**	0	1	2	3	0	**6**	1	1	4	15	0	**20**	1	**92**
8:15AM	0	18	2	0	**20**	0	6	11	1	1	**19**	2	0	5	1	0	**6**	0	1	1	18	0	**20**	0	**65**
8:30AM	0	14	1	0	**15**	0	6	18	0	0	**24**	0	1	1	1	0	**3**	0	4	1	9	0	**14**	0	**56**
8:45AM	1	28	1	0	**30**	0	10	18	0	0	**28**	0	1	2	0	0	**3**	0	0	2	16	0	**18**	0	**79**
Hourly Total	2	95	7	0	**104**	0	31	65	1	1	**98**	2	3	10	5	0	**18**	1	6	8	58	0	**72**	1	**292**
2:00PM	1	24	2	0	**27**	0	10	28	1	1	**40**	5	5	5	2	0	**12**	1	2	1	11	0	**14**	4	**93**
2:15PM	1	22	2	0	**25**	0	11	28	1	0	**40**	7	2	2	0	0	**4**	1	2	1	10	0	**13**	1	**82**
2:30PM	0	19	6	0	**25**	0	12	29	0	0	**41**	3	2	4	3	0	**9**	1	1	0	13	0	**14**	0	**89**
2:45PM	1	12	3	0	**16**	0	14	24	3	0	**41**	1	2	9	0	0	**11**	0	1	3	17	0	**21**	0	**89**
Hourly Total	3	77	13	0	**93**	0	47	109	5	1	**162**	16	11	20	5	0	**36**	3	6	5	51	0	**62**	5	**353**
3:00PM	1	19	1	0	**21**	1	12	41	0	0	**53**	4	0	2	7	0	**9**	4	6	4	16	0	**26**	0	**109**
3:15PM	1	19	2	0	**22**	0	20	43	1	0	**64**	5	1	0	4	0	**5**	0	8	5	17	0	**30**	0	**121**
3:30PM	0	28	7	0	**35**	0	26	38	0	1	**65**	1	0	8	4	0	**12**	0	6	1	20	0	**27**	0	**139**
3:45PM	1	17	4	0	**22**	0	11	43	0	0	**54**	3	1	2	6	0	**9**	1	1	5	13	0	**19**	1	**104**
Hourly Total	3	83	14	0	**100**	1	69	165	1	1	**236**	13	2	12	21	0	**35**	5	21	15	66	0	**102**	1	**473**
4:00PM	1	24	4	0	**29**	1	14	54	4	1	**73**	9	1	0	3	0	**4**	2	2	0	9	0	**11**	5	**117**
4:15PM	1	20	3	0	**24**	0	10	59	2	0	**71**	10	0	2	4	0	**6**	2	2	0	14	0	**16**	3	**117**
4:30PM	0	23	2	0	**25**	0	15	60	1	1	**77**	8	0	1	4	0	**5**	1	2	0	16	0	**18**	2	**125**
4:45PM	1	18	2	0	**21**	0	10	57	3	0	**70**	9	1	1	4	0	**6**	1	0	1	16	0	**17**	0	**114**
Hourly Total	3	85	11	0	**99**	1	49	230	10	2	**291**	36	2	4	15	0	**21**	6	6	1	55	0	**62**	10	**473**
5:00PM	0	9	1	0	**10**	1	18	48	0	0	**66**	2	0	1	4	0	**5**	1	3	4	14	0	**21**	1	**102**
5:15PM	0	18	4	0	**22**	0	20	43	0	0	**63**	3	1	6	2	0	**9**	1	0	4	8	0	**12**	1	**106**
5:30PM	2	20	2	0	**24**	0	9	33	1	0	**43**	3	2	1	5	0	**8**	0	3	4	13	0	**20**	1	**95**
5:45PM	1	10	2	0	**13**	0	10	28	3	0	**41**	0	0	1	4	0	**5**	0	4	0	16	0	**20**	1	**79**
Hourly Total	3	57	9	0	**69**	1	57	152	4	0	**213**	8	3	9	15	0	**27**	2	10	12	51	0	**73**	4	**382**
Total	15	481	59	0	**555**	3	296	777	24	5	**1102**	82	23	65	68	0	**156**	20	51	56	315	0	**422**	24	**2235**
% Approach	2.7%	86.7%	10.6%	0%	**-**	-	26.9%	70.5%	2.2%	0.5%	**-**	-	14.7%	41.7%	43.6%	0%	**-**	-	12.1%	13.3%	74.6%	0%	**-**	-	-
% Total	0.7%	21.5%	2.6%	0%	**24.8%**	-	13.2%	34.8%	1.1%	0.2%	**49.3%**	-	1.0%	2.9%	3.0%	0%	**7.0%**	-	2.3%	2.5%	14.1%	0%	**18.9%**	-	-
Lights	10	412	54	0	**476**	-	288	701	24	5	**1018**	-	23	51	62	0	**136**	-	49	41	302	0	**392**	-	2022
% Lights	66.7%	85.7%	91.5%	0%	**85.8%**	-	97.3%	90.2%	100%	100%	**92.4%**	-	100%	78.5%	91.2%	0%	**87.2%**	-	96.1%	73.2%	95.9%	0%	**92.9%**	-	90.5%
Articulated Trucks and Single-Unit Trucks	5	32	4	0	**41**	-	4	40	0	0	**44**	-	0	12	6	0	**18**	-	2	12	10	0	**24**	-	127
% Articulated Trucks and Single-Unit Trucks	33.3%	6.7%	6.8%	0%	**7.4%**	-	1.4%	5.1%	0%	0%	**4.0%**	-	0%	18.5%	8.8%	0%	**11.5%**	-	3.9%	21.4%	3.2%	0%	**5.7%**	-	5.7%
Buses	0	37	1	0	**38**	-	4	36	0	0	**40**	-	0	2	0	0	**2**	-	0	3	3	0	**6**	-	86

Leg Direction	Broadway Northbound						Broadway Southbound						Chelton Avenue Eastbound						Chelton Avenue Westbound						
Time	L	T	R	U	**App**	Ped*	L	T	R	U	**App**	Ped*	L	T	R	U	**App**	Ped*	L	T	R	U	**App**	Ped*	**Int**
% Buses	0%	7.7%	1.7%	0%	**6.8%**	-	1.4%	4.6%	0%	0%	**3.6%**	-	0%	3.1%	0%	0%	**1.3%**	-	0%	5.4%	1.0%	0%	**1.4%**	-	3.8%
Pedestrians	-	-	-	-	-	3	-	-	-	-	-	81	-	-	-	-	-	20	-	-	-	-	-	24	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	98.8%	-	-	-	-	-	100%	-	-	-	-	-	100%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	1	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	1.2%	-	-	-	-	-	0%	-	-	-	-	-	0%	-

*Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

1. Broadway & Chelton Street - TMC
Tue Jun 17, 2025
Full Length (7 AM-9 AM, 2 PM-6 PM)
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1311406, Location: 39.918285, -75.119794, Site Code: 1

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US



1. Broadway & Chelton Street - TMC

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US

Tue Jun 17, 2025
AM Peak (7:30 AM - 8:30 AM)
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1311406, Location: 39.918285, -75.119794, Site Code: 1

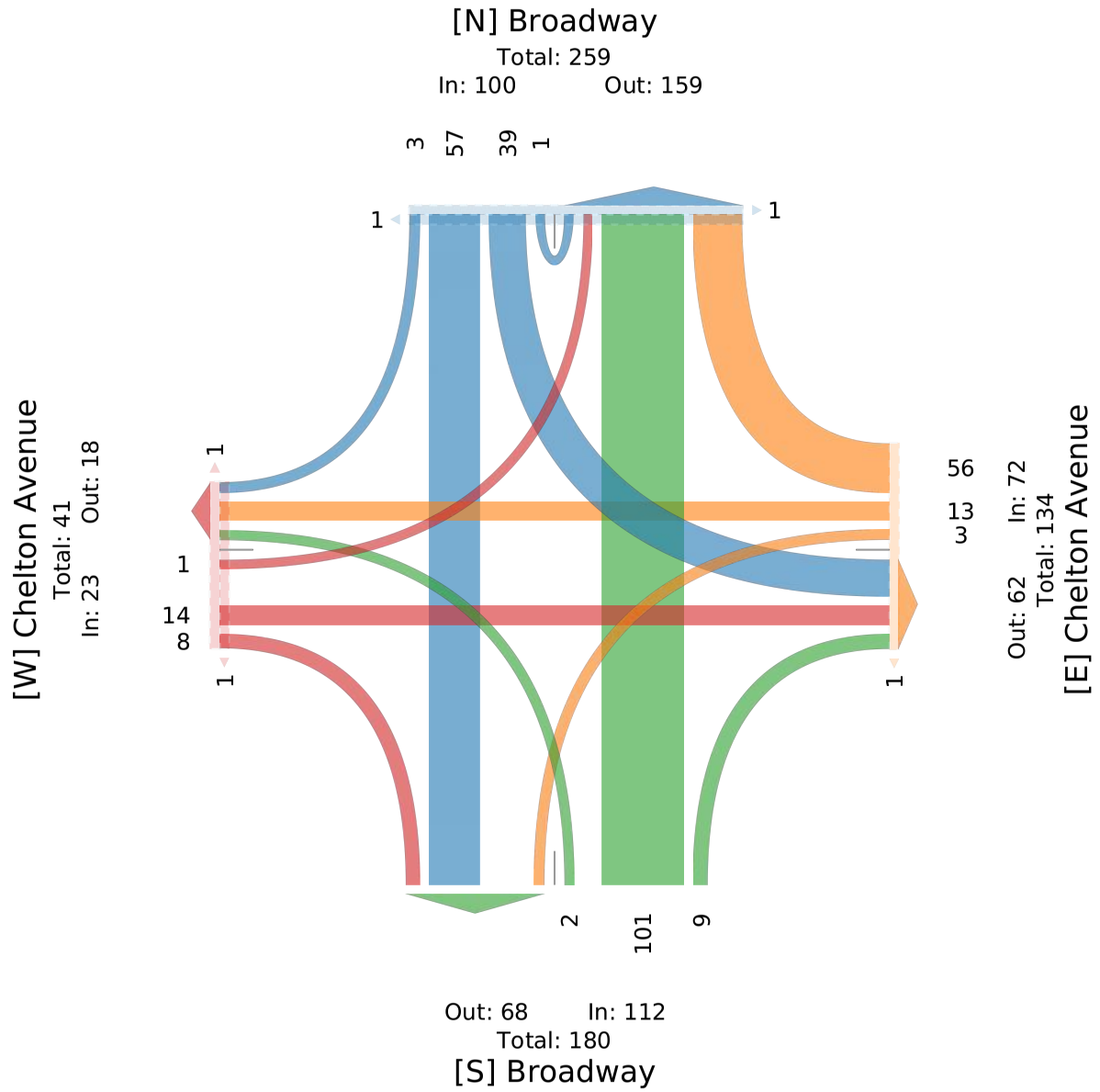
Leg Direction	Broadway Northbound						Broadway Southbound						Chelton Avenue Eastbound						Chelton Avenue Westbound						
Time	L	T	R	U	**App**	Ped*	L	T	R	U	**App**	Ped*	L	T	R	U	**App**	Ped*	L	T	R	U	**App**	Ped*	**Int**
2025-06-17 7:30AM	1	27	2	0	**30**	0	12	16	1	0	**29**	0	0	5	1	0	**6**	0	0	5	7	0	**12**	0	**77**
7:45AM	0	21	2	0	**23**	0	12	12	1	0	**25**	0	0	2	3	0	**5**	1	1	3	16	0	**20**	0	**73**
8:00AM	1	35	3	0	**39**	0	9	18	0	0	**27**	0	1	2	3	0	**6**	1	1	4	15	0	**20**	1	**92**
8:15AM	0	18	2	0	**20**	0	6	11	1	1	**19**	2	0	5	1	0	**6**	0	1	1	18	0	**20**	0	**65**
Total	2	101	9	0	**112**	0	39	57	3	1	**100**	2	1	14	8	0	**23**	2	3	13	56	0	**72**	1	**307**
% Approach	1.8%	90.2%	8.0%	0%	**-**	-	39.0%	57.0%	3.0%	1.0%	**-**	-	4.3%	60.9%	34.8%	0%	**-**	-	4.2%	18.1%	77.8%	0%	**-**	-	-
% Total	0.7%	32.9%	2.9%	0%	**36.5%**	-	12.7%	18.6%	1.0%	0.3%	**32.6%**	-	0.3%	4.6%	2.6%	0%	**7.5%**	-	1.0%	4.2%	18.2%	0%	**23.5%**	-	-
PHF	0.500	0.721	0.750	-	**0.718**	-	0.813	0.792	0.750	0.250	**0.862**	-	0.250	0.700	0.667	-	**0.958**	-	0.750	0.650	0.778	-	**0.900**	-	0.834
Lights	1	85	8	0	**94**	-	36	42	3	1	**82**	-	1	9	7	0	**17**	-	3	9	53	0	**65**	-	258
% Lights	50.0%	84.2%	88.9%	0%	**83.9%**	-	92.3%	73.7%	100%	100%	**82.0%**	-	100%	64.3%	87.5%	0%	**73.9%**	-	100%	69.2%	94.6%	0%	**90.3%**	-	84.0%
Articulated Trucks and Single-Unit Trucks	1	8	1	0	**10**	-	1	6	0	0	**7**	-	0	4	1	0	**5**	-	0	2	1	0	**3**	-	25
% Articulated Trucks and Single-Unit Trucks	50.0%	7.9%	11.1%	0%	**8.9%**	-	2.6%	10.5%	0%	0%	**7.0%**	-	0%	28.6%	12.5%	0%	**21.7%**	-	0%	15.4%	1.8%	0%	**4.2%**	-	8.1%
Buses	0	8	0	0	**8**	-	2	9	0	0	**11**	-	0	1	0	0	**1**	-	0	2	2	0	**4**	-	24
% Buses	0%	7.9%	0%	0%	**7.1%**	-	5.1%	15.8%	0%	0%	**11.0%**	-	0%	7.1%	0%	0%	**4.3%**	-	0%	15.4%	3.6%	0%	**5.6%**	-	7.8%
Pedestrians	-	-	-	-	-	0	-	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-	1	
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	50.0%	-	-	-	-	-	100%	-	-	-	-	-	100%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	1	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	-	-	-	-	-	-	50.0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-

*Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

1. Broadway & Chelton Street - TMC

Tue Jun 17, 2025
AM Peak (7:30 AM - 8:30 AM)
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1311406, Location: 39.918285, -75.119794, Site Code: 1

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US



1. Broadway & Chelton Street - TMC

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US

Tue Jun 17, 2025
PM Peak (3:15 PM - 4:15 PM) - Overall Peak Hour
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1311406, Location: 39.918285, -75.119794, Site Code: 1

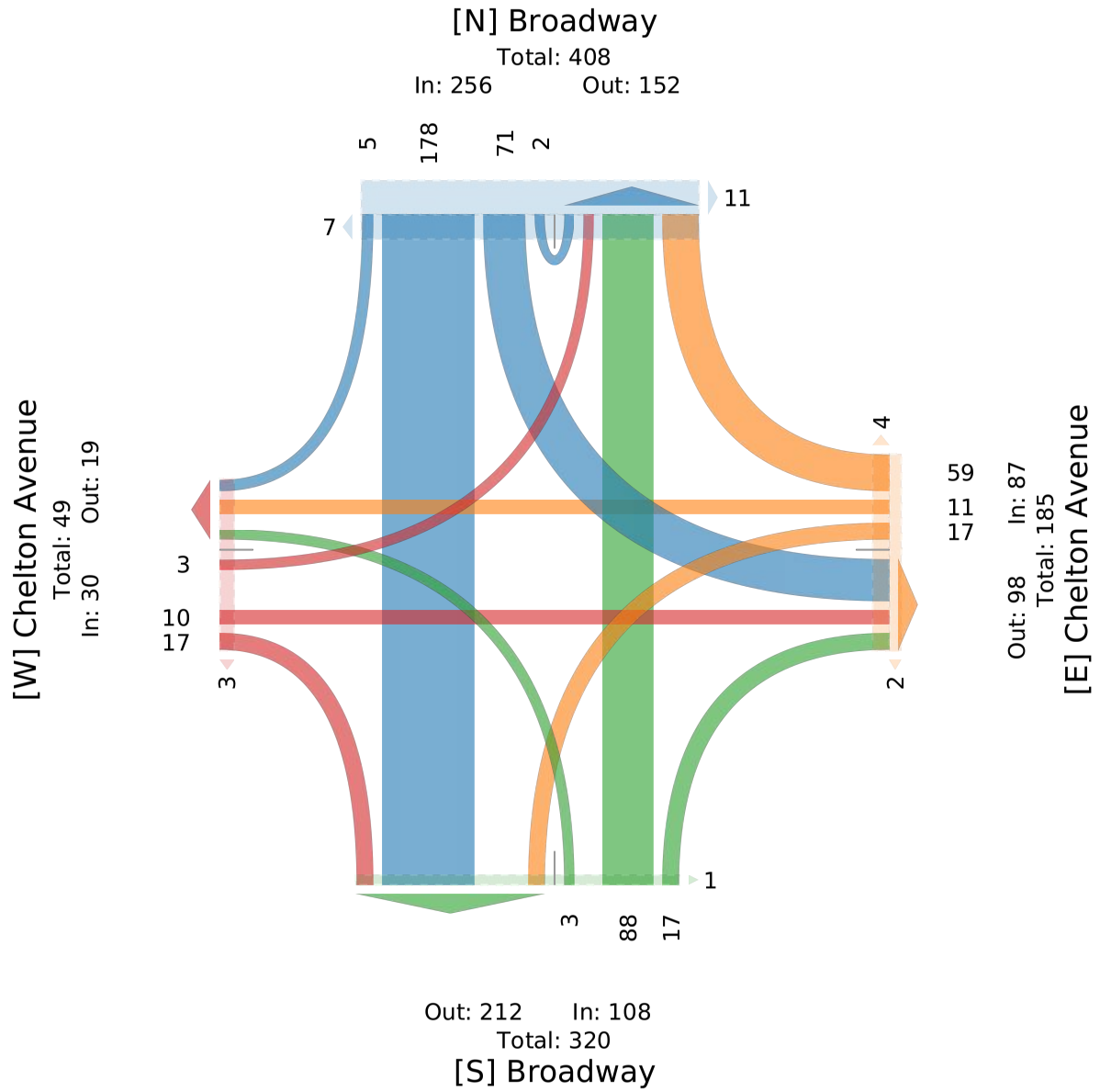
Leg / Direction	Broadway Northbound						Broadway Southbound						Chelton Avenue Eastbound						Chelton Avenue Westbound						
Time	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	Int
2025-06-17 3:15PM	1	19	2	0	**22**	0	20	43	1	0	**64**	5	1	0	4	0	**5**	0	8	5	17	0	**30**	0	**121**
3:30PM	0	28	7	0	**35**	0	26	38	0	1	**65**	1	0	8	4	0	**12**	0	6	1	20	0	**27**	0	**139**
3:45PM	1	17	4	0	**22**	0	11	43	0	0	**54**	3	1	2	6	0	**9**	1	1	5	13	0	**19**	1	**104**
4:00PM	1	24	4	0	**29**	1	14	54	4	1	**73**	9	1	0	3	0	**4**	2	2	0	9	0	**11**	5	**117**
Total	3	88	17	0	**108**	1	71	178	5	2	**256**	18	3	10	17	0	**30**	3	17	11	59	0	**87**	6	**481**
% Approach	2.8%	81.5%	15.7%	0%	**-**	-	27.7%	69.5%	2.0%	0.8%	**-**	-	10.0%	33.3%	56.7%	0%	**-**	-	19.5%	12.6%	67.8%	0%	**-**	-	-
% Total	0.6%	18.3%	3.5%	0%	**22.5%**	-	14.8%	37.0%	1.0%	0.4%	**53.2%**	-	0.6%	2.1%	3.5%	0%	**6.2%**	-	3.5%	2.3%	12.3%	0%	**18.1%**	-	-
PHF	0.750	0.786	0.607	-	**0.771**	-	0.683	0.824	0.313	0.500	**0.877**	-	0.750	0.313	0.708	-	**0.625**	-	0.531	0.550	0.738	-	**0.725**	-	0.865
Lights	3	79	17	0	**99**	-	71	165	5	2	**243**	-	3	8	16	0	**27**	-	16	8	58	0	**82**	-	451
% Lights	100%	89.8%	100%	0%	**91.7%**	-	100%	92.7%	100%	100%	**94.9%**	-	100%	80.0%	94.1%	0%	**90.0%**	-	94.1%	72.7%	98.3%	0%	**94.3%**	-	93.8%
Articulated Trucks and Single-Unit Trucks	0	2	0	0	**2**	-	0	7	0	0	**7**	-	0	1	1	0	**2**	-	1	2	0	0	**3**	-	14
% Articulated Trucks and Single-Unit Trucks	0%	2.3%	0%	0%	**1.9%**	-	0%	3.9%	0%	0%	**2.7%**	-	0%	10.0%	5.9%	0%	**6.7%**	-	5.9%	18.2%	0%	0%	**3.4%**	-	2.9%
Buses	0	7	0	0	**7**	-	0	6	0	0	**6**	-	0	1	0	0	**1**	-	0	1	1	0	**2**	-	16
% Buses	0%	8.0%	0%	0%	**6.5%**	-	0%	3.4%	0%	0%	**2.3%**	-	0%	10.0%	0%	0%	**3.3%**	-	0%	9.1%	1.7%	0%	**2.3%**	-	3.3%
Pedestrians	-	-	-	-	-	1	-	-	-	-	-	18	-	-	-	-	-	3	-	-	-	-	-	6	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	100%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-

*Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

1. Broadway & Chelton Street - TMC

Tue Jun 17, 2025
PM Peak (3:15 PM - 4:15 PM) - Overall Peak Hour
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1311406, Location: 39.918285, -75.119794, Site Code: 1

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US



2. Broadway & Holt Driveway - TMC

Tue Jun 17, 2025
Full Length (7 AM-9 AM, 2 PM-6 PM)
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1310738, Location: 39.915402, -75.119763, Site Code: 2

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US

Leg / Direction	Holt Driveway Northbound					Broadway Southbound					Broadway Westbound					
Time	T	R	U	**App**	Ped*	L	T	U	**App**	Ped*	L	R	U	**App**	Ped*	**Int**
2025-06-17 7:00AM	0	2	0	**2**	0	20	3	0	**23**	0	17	15	0	**32**	1	**57**
7:15AM	1	1	0	**2**	0	11	2	0	**13**	0	9	20	0	**29**	0	**44**
7:30AM	4	2	0	**6**	0	19	1	0	**20**	0	9	28	0	**37**	0	**63**
7:45AM	3	1	1	**5**	0	14	5	0	**19**	0	12	20	0	**32**	0	**56**
Hourly Total	8	6	1	**15**	0	64	11	0	**75**	0	47	83	0	**130**	1	**220**
8:00AM	5	2	2	**9**	0	20	2	0	**22**	0	9	32	0	**41**	0	**72**
8:15AM	0	1	0	**1**	0	12	1	0	**13**	0	5	22	0	**27**	0	**41**
8:30AM	2	2	0	**4**	0	24	0	0	**24**	0	2	16	0	**18**	0	**46**
8:45AM	2	1	0	**3**	0	17	1	1	**19**	0	4	28	0	**32**	0	**54**
Hourly Total	9	6	2	**17**	0	73	4	1	**78**	0	20	98	0	**118**	0	**213**
2:00PM	2	3	0	**5**	0	28	2	1	**31**	0	1	25	0	**26**	0	**62**
2:15PM	4	3	0	**7**	1	29	1	0	**30**	2	5	21	0	**26**	0	**63**
2:30PM	0	5	0	**5**	0	31	1	0	**32**	0	2	23	0	**25**	0	**62**
2:45PM	1	4	0	**5**	0	22	1	0	**23**	0	1	15	0	**16**	0	**44**
Hourly Total	7	15	0	**22**	1	110	5	1	**116**	2	9	84	0	**93**	0	**231**
3:00PM	2	12	0	**14**	0	45	2	0	**47**	0	1	19	0	**20**	0	**81**
3:15PM	1	7	0	**8**	0	49	1	0	**50**	0	1	22	1	**24**	0	**82**
3:30PM	5	16	0	**21**	0	50	3	0	**53**	0	1	26	0	**27**	1	**101**
3:45PM	2	6	0	**8**	0	44	2	0	**46**	0	1	16	0	**17**	0	**71**
Hourly Total	10	41	0	**51**	0	188	8	0	**196**	0	4	83	1	**88**	1	**335**
4:00PM	5	24	0	**29**	0	60	4	0	**64**	0	0	25	1	**26**	0	**119**
4:15PM	3	4	0	**7**	0	55	2	0	**57**	0	0	20	0	**20**	0	**84**
4:30PM	2	4	0	**6**	0	72	1	0	**73**	0	0	24	0	**24**	0	**103**
4:45PM	1	5	0	**6**	0	59	1	0	**60**	0	1	16	0	**17**	0	**83**
Hourly Total	11	37	0	**48**	0	246	8	0	**254**	0	1	85	1	**87**	0	**389**
5:00PM	1	17	0	**18**	0	57	0	0	**57**	1	0	12	0	**12**	0	**87**
5:15PM	1	2	0	**3**	0	46	0	0	**46**	0	1	24	0	**25**	0	**74**
5:30PM	0	1	0	**1**	0	40	0	0	**40**	0	1	21	0	**22**	0	**63**
5:45PM	1	2	0	**3**	0	34	2	0	**36**	0	0	10	0	**10**	0	**49**
Hourly Total	3	22	0	**25**	0	177	2	0	**179**	1	2	67	0	**69**	0	**273**
Total	48	127	3	**178**	1	858	38	2	**898**	3	83	500	2	**585**	2	**1661**
% Approach	27.0%	71.3%	1.7%	**-**	-	95.5%	4.2%	0.2%	**-**	-	14.2%	85.5%	0.3%	**-**	-	-
% Total	2.9%	7.6%	0.2%	**10.7%**	-	51.7%	2.3%	0.1%	**54.1%**	-	5.0%	30.1%	0.1%	**35.2%**	-	-
Lights	41	117	2	**160**	-	777	34	0	**811**	-	69	428	2	**499**	-	1470
% Lights	85.4%	92.1%	66.7%	**89.9%**	-	90.6%	89.5%	0%	**90.3%**	-	83.1%	85.6%	100%	**85.3%**	-	88.5%
Articulated Trucks and Single-Unit Trucks	7	10	1	**18**	-	47	4	2	**53**	-	14	33	0	**47**	-	118
% Articulated Trucks and Single-Unit Trucks	14.6%	7.9%	33.3%	**10.1%**	-	5.5%	10.5%	100%	**5.9%**	-	16.9%	6.6%	0%	**8.0%**	-	7.1%
Buses	0	0	0	**0**	-	34	0	0	**34**	-	0	39	0	**39**	-	73

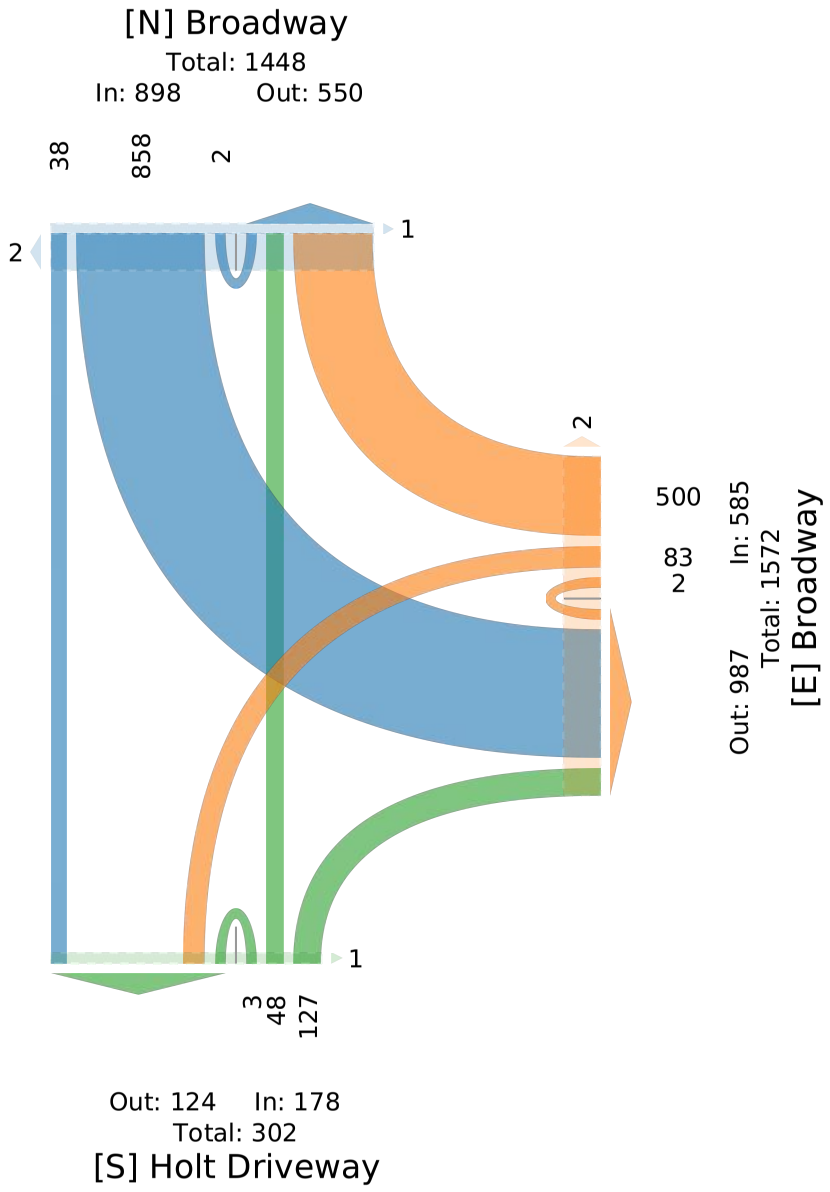
Leg Direction	Holt Driveway Northbound					Broadway Southbound					Broadway Westbound					
Time	T	R	U	**App**	Ped*	L	T	U	**App**	Ped*	L	R	U	**App**	Ped*	**Int**
% Buses	0%	0%	0%	**0%**	-	4.0%	0%	0%	**3.8%**	-	0%	7.8%	0%	**6.7%**	-	4.4%
Pedestrians	-	-	-	-	1	-	-	-	-	3	-	-	-	-	2	
% Pedestrians	-	-	-	-	100%	-	-	-	-	100%	-	-	-	-	100%	-
Bicycles on Crosswalk	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	0%	-	-	-	-	0%	-	-	-	-	0%	-

*Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

2. Broadway & Holt Driveway - TMC

Tue Jun 17, 2025
Full Length (7 AM-9 AM, 2 PM-6 PM)
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1310738, Location: 39.915402, -75.119763, Site Code: 2

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US



2. Broadway & Holt Driveway - TMC

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US

Tue Jun 17, 2025
AM Peak (7:15 AM - 8:15 AM)
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1310738, Location: 39.915402, -75.119763, Site Code: 2

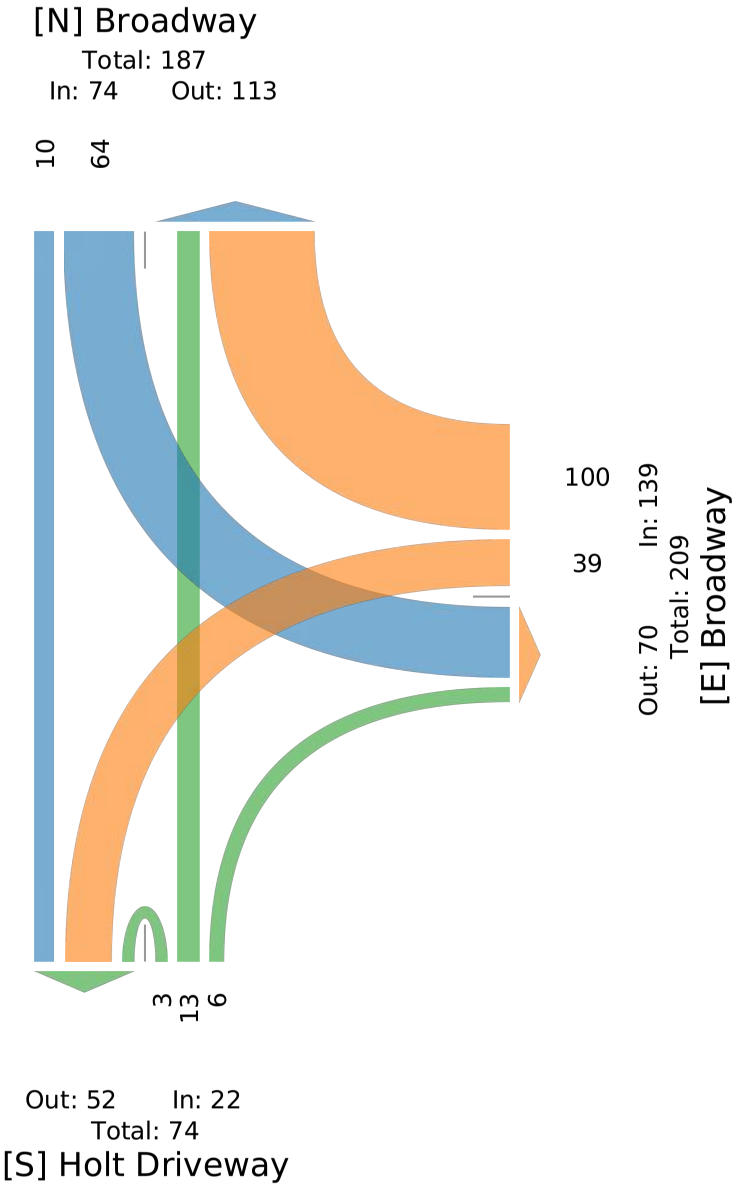
Leg Direction	Holt Driveway Northbound					Broadway Southbound					Broadway Westbound					
Time	T	R	U	**App**	Ped*	L	T	U	**App**	Ped*	L	R	U	**App**	Ped*	**Int**
2025-06-17 7:15AM	1	1	0	**2**	0	11	2	0	**13**	0	9	20	0	**29**	0	**44**
7:30AM	4	2	0	**6**	0	19	1	0	**20**	0	9	28	0	**37**	0	**63**
7:45AM	3	1	1	**5**	0	14	5	0	**19**	0	12	20	0	**32**	0	**56**
8:00AM	5	2	2	**9**	0	20	2	0	**22**	0	9	32	0	**41**	0	**72**
Total	13	6	3	**22**	0	64	10	0	**74**	0	39	100	0	**139**	0	**235**
% Approach	59.1%	27.3%	13.6%	**-**	-	86.5%	13.5%	0%	**-**	-	28.1%	71.9%	0%	**-**	-	-
% Total	5.5%	2.6%	1.3%	**9.4%**	-	27.2%	4.3%	0%	**31.5%**	-	16.6%	42.6%	0%	**59.1%**	-	-
PHF	0.650	0.750	0.375	**0.611**	-	0.800	0.500	-	**0.841**	-	0.813	0.781	-	**0.848**	-	0.816
Lights	12	4	2	**18**	-	51	8	0	**59**	-	30	79	0	**109**	-	186
% Lights	92.3%	66.7%	66.7%	**81.8%**	-	79.7%	80.0%	0%	**79.7%**	-	76.9%	79.0%	0%	**78.4%**	-	79.1%
Articulated Trucks and Single-Unit Trucks	1	2	1	**4**	-	7	2	0	**9**	-	9	12	0	**21**	-	34
% Articulated Trucks and Single-Unit Trucks	7.7%	33.3%	33.3%	**18.2%**	-	10.9%	20.0%	0%	**12.2%**	-	23.1%	12.0%	0%	**15.1%**	-	14.5%
Buses	0	0	0	**0**	-	6	0	0	**6**	-	0	9	0	**9**	-	15
% Buses	0%	0%	0%	**0%**	-	9.4%	0%	0%	**8.1%**	-	0%	9.0%	0%	**6.5%**	-	6.4%
Pedestrians	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bicycles on Crosswalk	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

2. Broadway & Holt Driveway - TMC

Tue Jun 17, 2025
AM Peak (7:15 AM - 8:15 AM)
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1310738, Location: 39.915402, -75.119763, Site Code: 2

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US



2. Broadway & Holt Driveway - TMC

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US

Tue Jun 17, 2025
PM Peak (4 PM - 5 PM) - Overall Peak Hour
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1310738, Location: 39.915402, -75.119763, Site Code: 2

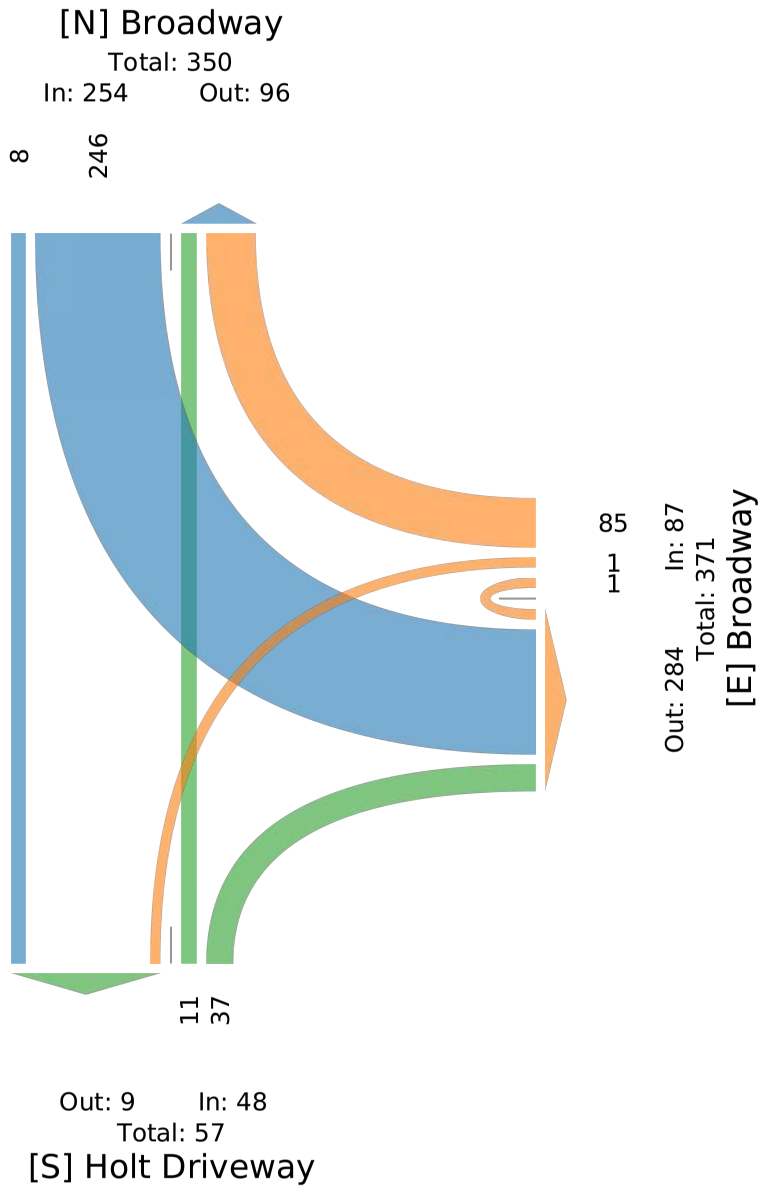
Leg Direction	Holt Driveway Northbound					Broadway Southbound					Broadway Westbound					
Time	T	R	U	**App**	Ped*	L	T	U	**App**	Ped*	L	R	U	**App**	Ped*	**Int**
2025-06-17 4:00PM	5	24	0	**29**	0	60	4	0	**64**	0	0	25	1	**26**	0	**119**
4:15PM	3	4	0	**7**	0	55	2	0	**57**	0	0	20	0	**20**	0	**84**
4:30PM	2	4	0	**6**	0	72	1	0	**73**	0	0	24	0	**24**	0	**103**
4:45PM	1	5	0	**6**	0	59	1	0	**60**	0	1	16	0	**17**	0	**83**
Total	11	37	0	**48**	0	246	8	0	**254**	0	1	85	1	**87**	0	**389**
% Approach	22.9%	77.1%	0%	**-**	-	96.9%	3.1%	0%	**-**	-	1.1%	97.7%	1.1%	**-**	-	-
% Total	2.8%	9.5%	0%	**12.3%**	-	63.2%	2.1%	0%	**65.3%**	-	0.3%	21.9%	0.3%	**22.4%**	-	-
PHF	0.550	0.385	-	**0.414**	-	0.854	0.500	-	**0.870**	-	0.250	0.850	0.250	**0.837**	-	0.817
Lights	10	36	0	**46**	-	235	8	0	**243**	-	1	77	1	**79**	-	368
% Lights	90.9%	97.3%	0%	**95.8%**	-	95.5%	100%	0%	**95.7%**	-	100%	90.6%	100%	**90.8%**	-	94.6%
Articulated Trucks and Single-Unit Trucks	1	1	0	**2**	-	6	0	0	**6**	-	0	1	0	**1**	-	9
% Articulated Trucks and Single-Unit Trucks	9.1%	2.7%	0%	**4.2%**	-	2.4%	0%	0%	**2.4%**	-	0%	1.2%	0%	**1.1%**	-	2.3%
Buses	0	0	0	**0**	-	5	0	0	**5**	-	0	7	0	**7**	-	12
% Buses	0%	0%	0%	**0%**	-	2.0%	0%	0%	**2.0%**	-	0%	8.2%	0%	**8.0%**	-	3.1%
Pedestrians	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	
% Pedestrians	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bicycles on Crosswalk	-	-	-	-	0	-	-	-	-	0	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

2. Broadway & Holt Driveway - TMC

Tue Jun 17, 2025
PM Peak (4 PM - 5 PM) - Overall Peak Hour
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1310738, Location: 39.915402, -75.119763, Site Code: 2

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US



3. Broadway & Holtec Boulevard - TMC

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US

Tue Jun 17, 2025
Full Length (7 AM-9 AM, 2 PM-6 PM)
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1310742, Location: 39.912662, -75.118036, Site Code: 3

Leg / Direction	Broadway Northbound						Broadway Southbound						Holtec Boulevard Eastbound						Holtec Boulevard Westbound						
Time	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	Int
2025-06-17 7:00AM	1	9	12	0	**22**	0	15	11	0	0	**26**	1	0	0	0	0	**0**	0	14	34	19	0	**67**	1	**115**
7:15AM	0	17	9	0	**26**	0	15	3	0	0	**18**	0	0	2	0	0	**2**	0	22	35	19	0	**76**	0	**122**
7:30AM	1	17	7	0	**25**	1	11	9	0	0	**20**	0	0	1	0	0	**1**	2	19	32	22	0	**73**	1	**119**
7:45AM	1	14	21	0	**36**	0	9	8	0	0	**17**	1	1	0	0	0	**1**	0	18	54	22	0	**94**	0	**148**
Hourly Total	3	57	49	0	**109**	1	50	31	0	0	**81**	2	1	3	0	0	**4**	2	73	155	82	0	**310**	2	**504**
8:00AM	0	19	12	0	**31**	1	17	7	1	0	**25**	0	2	0	1	0	**3**	0	15	21	16	0	**52**	0	**111**
8:15AM	0	9	10	0	**19**	0	6	7	1	0	**14**	0	0	2	0	0	**2**	0	18	25	11	0	**54**	0	**89**
8:30AM	0	9	12	0	**21**	1	16	7	3	0	**26**	0	0	1	0	0	**1**	0	21	23	10	0	**54**	0	**102**
8:45AM	0	15	6	0	**21**	0	14	5	0	0	**19**	0	0	2	1	0	**3**	0	14	31	19	0	**64**	0	**107**
Hourly Total	0	52	40	0	**92**	2	53	26	5	0	**84**	0	2	5	2	0	**9**	0	68	100	56	0	**224**	0	**409**
2:00PM	0	10	19	0	**29**	0	23	12	0	0	**35**	0	0	8	0	0	**8**	1	13	6	7	0	**26**	0	**98**
2:15PM	1	9	21	0	**31**	0	18	17	0	0	**35**	0	0	10	0	0	**10**	0	23	13	13	0	**49**	0	**125**
2:30PM	1	16	21	0	**38**	0	21	18	0	0	**39**	0	1	6	2	0	**9**	1	22	14	8	0	**44**	0	**130**
2:45PM	0	5	12	0	**17**	0	20	6	0	0	**26**	1	0	7	1	0	**8**	1	20	3	13	0	**36**	0	**87**
Hourly Total	2	40	73	0	**115**	0	82	53	0	0	**135**	1	1	31	3	0	**35**	3	78	36	41	0	**155**	0	**440**
3:00PM	0	8	15	0	**23**	0	37	20	2	0	**59**	1	1	13	2	0	**16**	1	24	0	9	0	**33**	0	**131**
3:15PM	0	8	20	0	**28**	0	21	27	0	0	**48**	1	0	6	1	0	**7**	1	34	2	10	0	**46**	0	**129**
3:30PM	0	10	10	0	**20**	1	35	31	0	0	**66**	4	0	64	8	0	**72**	1	43	2	13	0	**58**	0	**216**
3:45PM	0	9	25	0	**34**	0	17	35	0	0	**52**	0	0	15	5	0	**20**	0	47	1	9	0	**57**	0	**163**
Hourly Total	0	35	70	0	**105**	1	110	113	2	0	**225**	6	1	98	16	0	**115**	3	148	5	41	0	**194**	0	**639**
4:00PM	0	14	16	0	**30**	1	29	44	0	0	**73**	1	1	51	7	0	**59**	0	24	2	8	0	**34**	0	**196**
4:15PM	0	7	13	0	**20**	1	19	36	1	0	**56**	3	0	48	6	0	**54**	1	81	1	12	0	**94**	1	**224**
4:30PM	0	13	12	0	**25**	0	19	43	1	0	**63**	1	0	43	9	0	**52**	0	75	2	11	0	**88**	0	**228**
4:45PM	0	9	20	0	**29**	0	25	46	0	0	**71**	1	0	20	4	0	**24**	1	87	2	7	0	**96**	0	**220**
Hourly Total	0	43	61	0	**104**	2	92	169	2	0	**263**	6	1	162	26	0	**189**	2	267	7	38	0	**312**	1	**868**
5:00PM	0	8	12	0	**20**	0	31	28	0	0	**59**	0	0	43	3	0	**46**	0	60	1	4	0	**65**	0	**190**
5:15PM	0	9	9	0	**18**	0	19	17	0	0	**36**	0	0	30	8	0	**38**	0	49	5	12	0	**66**	1	**158**
5:30PM	0	12	9	0	**21**	0	24	12	0	0	**36**	0	0	16	1	0	**17**	0	55	0	8	0	**63**	0	**137**
5:45PM	0	5	8	0	**13**	0	14	18	0	0	**32**	0	0	12	0	0	**12**	0	34	0	6	0	**40**	0	**97**
Hourly Total	0	34	38	0	**72**	0	88	75	0	0	**163**	0	0	101	12	0	**113**	0	198	6	30	0	**234**	1	**582**
Total	5	261	331	0	**597**	6	475	467	9	0	**951**	15	6	400	59	0	**465**	10	832	309	288	0	**1429**	4	**3442**
% Approach	0.8%	43.7%	55.4%	0%	**-**	-	49.9%	49.1%	0.9%	0%	**-**	-	1.3%	86.0%	12.7%	0%	**-**	-	58.2%	21.6%	20.2%	0%	**-**	-	-
% Total	0.1%	7.6%	9.6%	0%	**17.3%**	-	13.8%	13.6%	0.3%	0%	**27.6%**	-	0.2%	11.6%	1.7%	0%	**13.5%**	-	24.2%	9.0%	8.4%	0%	**41.5%**	-	-
Lights	4	234	202	0	**440**	-	405	426	6	0	**837**	-	5	395	58	0	**458**	-	734	301	224	0	**1259**	-	2994
% Lights	80.0%	89.7%	61.0%	0%	**73.7%**	-	85.3%	91.2%	66.7%	0%	**88.0%**	-	83.3%	98.8%	98.3%	0%	**98.5%**	-	88.2%	97.4%	77.8%	0%	**88.1%**	-	87.0%
Articulated Trucks and Single-Unit Trucks	1	3	129	0	**133**	-	60	16	3	0	**79**	-	1	5	1	0	**7**	-	95	8	53	0	**156**	-	375
% Articulated Trucks and Single-Unit Trucks	20.0%	1.1%	39.0%	0%	**22.3%**	-	12.6%	3.4%	33.3%	0%	**8.3%**	-	16.7%	1.3%	1.7%	0%	**1.5%**	-	11.4%	2.6%	18.4%	0%	**10.9%**	-	10.9%
Buses	0	24	0	0	**24**	-	10	25	0	0	**35**	-	0	0	0	0	**0**	-	3	0	11	0	**14**	-	73

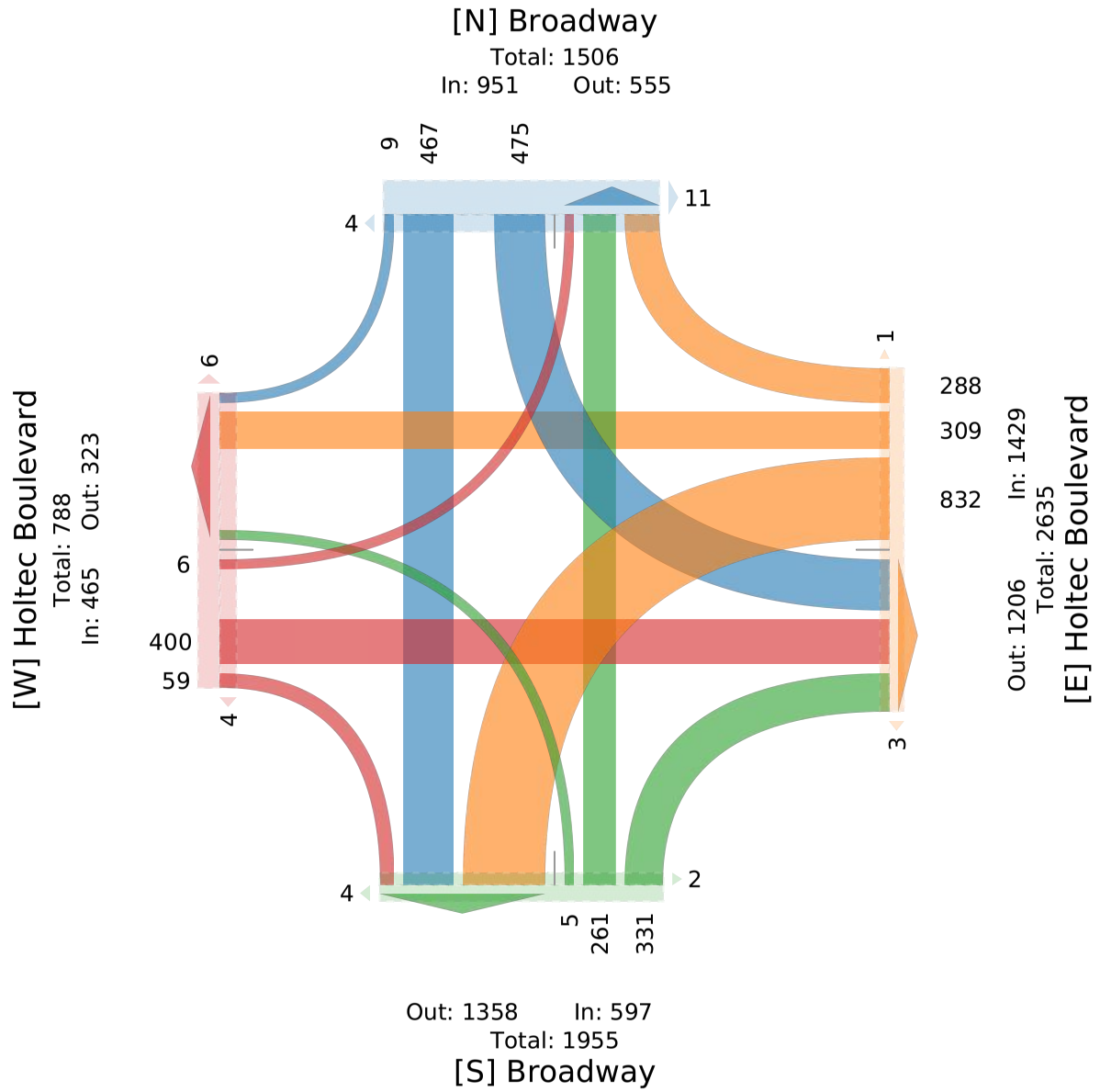
Leg Direction	Broadway Northbound						Broadway Southbound						Holtec Boulevard Eastbound						Holtec Boulevard Westbound						
Time	L	T	R	U	**App**	Ped*	L	T	R	U	**App**	Ped*	L	T	R	U	**App**	Ped*	L	T	R	U	**App**	Ped*	**Int**
% Buses	0%	9.2%	0%	0%	**4.0%**	-	2.1%	5.4%	0%	0%	**3.7%**	-	0%	0%	0%	0%	**0%**	-	0.4%	0%	3.8%	0%	**1.0%**	-	2.1%
Pedestrians	-	-	-	-	-	5	-	-	-	-	-	13	-	-	-	-	-	9	-	-	-	-	-	4	
% Pedestrians	-	-	-	-	-	83.3%	-	-	-	-	-	86.7%	-	-	-	-	-	90.0%	-	-	-	-	-	100%	-
Bicycles on Crosswalk	-	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-	1	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	16.7%	-	-	-	-	-	13.3%	-	-	-	-	-	10.0%	-	-	-	-	-	0%	-

*Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

3. Broadway & Holtec Boulevard - TMC

Tue Jun 17, 2025
Full Length (7 AM-9 AM, 2 PM-6 PM)
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1310742, Location: 39.912662, -75.118036, Site Code: 3

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US



3. Broadway & Holtec Boulevard - TMC

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US

Tue Jun 17, 2025
AM Peak (7 AM - 8 AM)
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1310742, Location: 39.912662, -75.118036, Site Code: 3

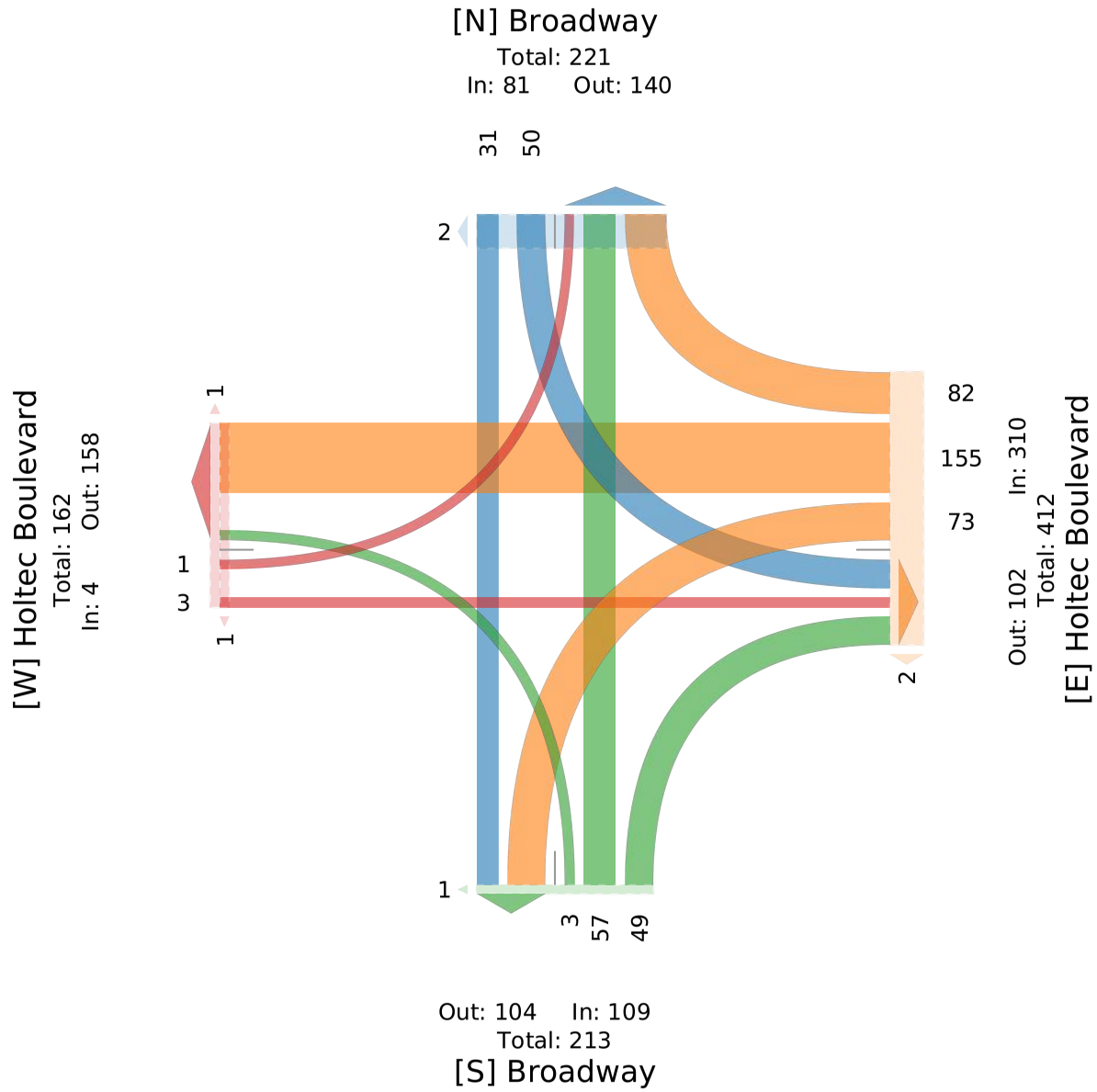
Leg Direction	Broadway Northbound						Broadway Southbound						Holtec Boulevard Eastbound						Holtec Boulevard Westbound						
Time	L	T	R	U	**App**	Ped*	L	T	R	U	**App**	Ped*	L	T	R	U	**App**	Ped*	L	T	R	U	**App**	Ped*	**Int**
2025-06-17 7:00AM	1	9	12	0	**22**	0	15	11	0	0	**26**	1	0	0	0	0	**0**	0	14	34	19	0	**67**	1	**115**
7:15AM	0	17	9	0	**26**	0	15	3	0	0	**18**	0	0	2	0	0	**2**	0	22	35	19	0	**76**	0	**122**
7:30AM	1	17	7	0	**25**	1	11	9	0	0	**20**	0	0	1	0	0	**1**	2	19	32	22	0	**73**	1	**119**
7:45AM	1	14	21	0	**36**	0	9	8	0	0	**17**	1	1	0	0	0	**1**	0	18	54	22	0	**94**	0	**148**
Total	3	57	49	0	**109**	1	50	31	0	0	**81**	2	1	3	0	0	**4**	2	73	155	82	0	**310**	2	**504**
% Approach	2.8%	52.3%	45.0%	0%	**-**	-	61.7%	38.3%	0%	0%	**-**	-	25.0%	75.0%	0%	0%	**-**	-	23.5%	50.0%	26.5%	0%	**-**	-	-
% Total	0.6%	11.3%	9.7%	0%	**21.6%**	-	9.9%	6.2%	0%	0%	**16.1%**	-	0.2%	0.6%	0%	0%	**0.8%**	-	14.5%	30.8%	16.3%	0%	**61.5%**	-	-
PHF	0.750	0.838	0.583	-	**0.757**	-	0.833	0.705	-	-	**0.779**	-	0.250	0.375	-	-	**0.500**	-	0.830	0.718	0.932	-	**0.824**	-	0.851
Lights	3	51	41	0	**95**	-	34	27	0	0	**61**	-	1	2	0	0	**3**	-	48	151	57	0	**256**	-	415
% Lights	100%	89.5%	83.7%	0%	**87.2%**	-	68.0%	87.1%	0%	0%	**75.3%**	-	100%	66.7%	0%	0%	**75.0%**	-	65.8%	97.4%	69.5%	0%	**82.6%**	-	82.3%
Articulated Trucks and Single-Unit Trucks	0	0	8	0	**8**	-	15	0	0	0	**15**	-	0	1	0	0	**1**	-	24	4	23	0	**51**	-	75
% Articulated Trucks and Single-Unit Trucks	0%	0%	16.3%	0%	**7.3%**	-	30.0%	0%	0%	0%	**18.5%**	-	0%	33.3%	0%	0%	**25.0%**	-	32.9%	2.6%	28.0%	0%	**16.5%**	-	14.9%
Buses	0	6	0	0	**6**	-	1	4	0	0	**5**	-	0	0	0	0	**0**	-	1	0	2	0	**3**	-	14
% Buses	0%	10.5%	0%	0%	**5.5%**	-	2.0%	12.9%	0%	0%	**6.2%**	-	0%	0%	0%	0%	**0%**	-	1.4%	0%	2.4%	0%	**1.0%**	-	2.8%
Pedestrians	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-	2	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	50.0%	-	-	-	-	-	100%	-	-	-	-	-	100%	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	1	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	50.0%	-	-	-	-	-	0%	-	-	-	-	-	0%	-

*Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

3. Broadway & Holtec Boulevard - TMC

Tue Jun 17, 2025
AM Peak (7 AM - 8 AM)
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1310742, Location: 39.912662, -75.118036, Site Code: 3

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US



3. Broadway & Holtec Boulevard - TMC

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US

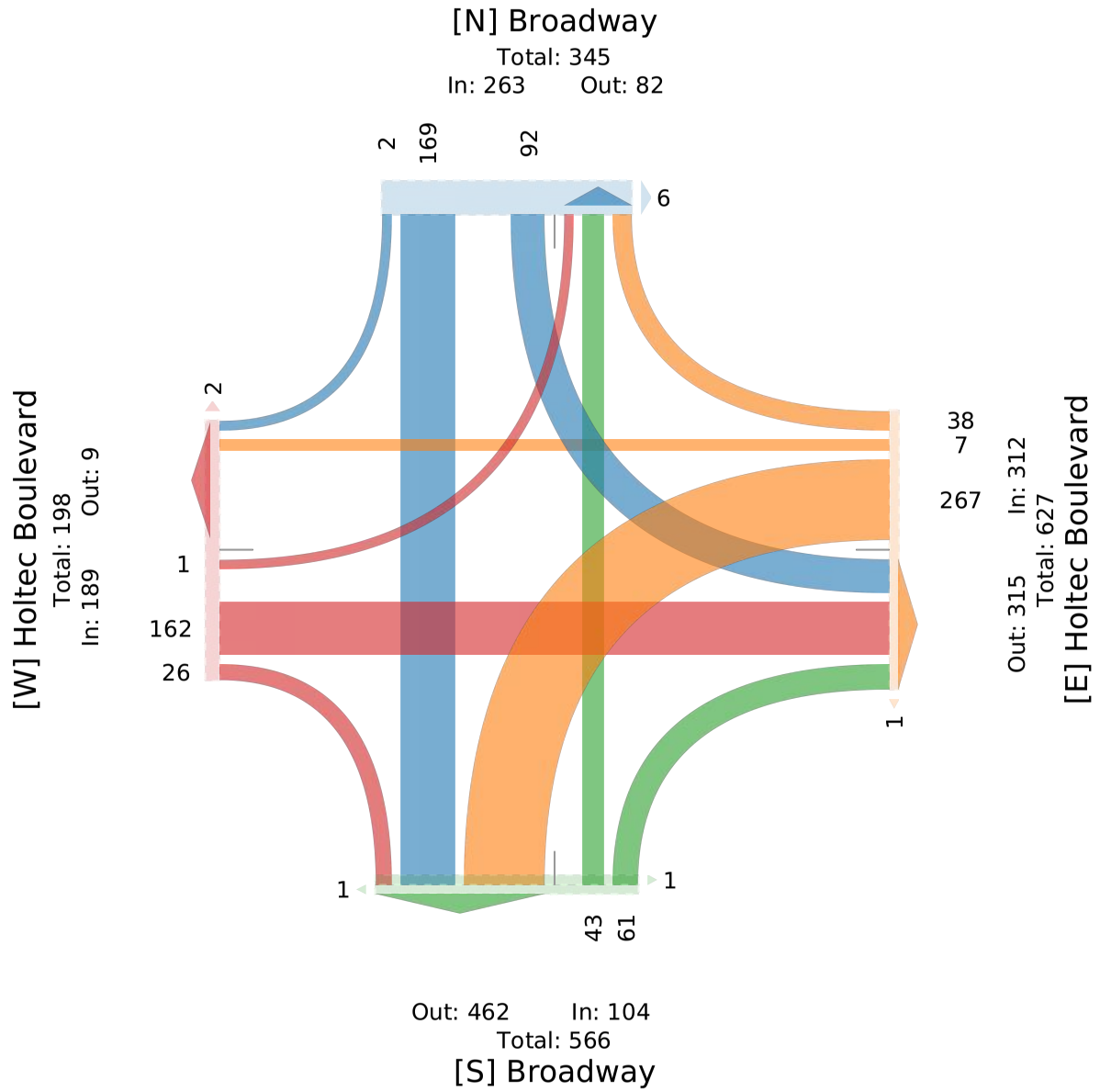
Tue Jun 17, 2025
PM Peak (4 PM - 5 PM) - Overall Peak Hour
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1310742, Location: 39.912662, -75.118036, Site Code: 3

Leg	Broadway						Broadway						Holtec Boulevard						Holtec Boulevard						
Direction	Northbound						Southbound						Eastbound						Westbound						
Time	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	Int
2025-06-17 4:00PM	0	14	16	0	**30**	1	29	44	0	0	**73**	1	1	51	7	0	**59**	0	24	2	8	0	**34**	0	**196**
4:15PM	0	7	13	0	**20**	1	19	36	1	0	**56**	3	0	48	6	0	**54**	1	81	1	12	0	**94**	1	**224**
4:30PM	0	13	12	0	**25**	0	19	43	1	0	**63**	1	0	43	9	0	**52**	0	75	2	11	0	**88**	0	**228**
4:45PM	0	9	20	0	**29**	0	25	46	0	0	**71**	1	0	20	4	0	**24**	1	87	2	7	0	**96**	0	**220**
Total	0	43	61	0	**104**	2	92	169	2	0	**263**	6	1	162	26	0	**189**	2	267	7	38	0	**312**	1	**868**
% Approach	0%	41.3%	58.7%	0%	**-**	-	35.0%	64.3%	0.8%	0%	**-**	-	0.5%	85.7%	13.8%	0%	**-**	-	85.6%	2.2%	12.2%	0%	**-**	-	-
% Total	0%	5.0%	7.0%	0%	**12.0%**	-	10.6%	19.5%	0.2%	0%	**30.3%**	-	0.1%	18.7%	3.0%	0%	**21.8%**	-	30.8%	0.8%	4.4%	0%	**35.9%**	-	-
PHF	-	0.768	0.763	-	**0.867**	-	0.793	0.918	0.500	-	**0.901**	-	0.250	0.794	0.722	-	**0.801**	-	0.767	0.875	0.792	-	**0.813**	-	0.952
Lights	0	39	37	0	**76**	-	87	163	2	0	**252**	-	1	161	26	0	**188**	-	263	7	35	0	**305**	-	821
% Lights	0%	90.7%	60.7%	0%	**73.1%**	-	94.6%	96.4%	100%	0%	**95.8%**	-	100%	99.4%	100%	0%	**99.5%**	-	98.5%	100%	92.1%	0%	**97.8%**	-	94.6%
Articulated Trucks and Single-Unit Trucks	0	0	24	0	**24**	-	4	3	0	0	**7**	-	0	1	0	0	**1**	-	4	0	1	0	**5**	-	37
% Articulated Trucks and Single-Unit Trucks	0%	0%	39.3%	0%	**23.1%**	-	4.3%	1.8%	0%	0%	**2.7%**	-	0%	0.6%	0%	0%	**0.5%**	-	1.5%	0%	2.6%	0%	**1.6%**	-	4.3%
Buses	0	4	0	0	**4**	-	1	3	0	0	**4**	-	0	0	0	0	**0**	-	0	0	2	0	**2**	-	10
% Buses	0%	9.3%	0%	0%	**3.8%**	-	1.1%	1.8%	0%	0%	**1.5%**	-	0%	0%	0%	0%	**0%**	-	0%	0%	5.3%	0%	**0.6%**	-	1.2%
Pedestrians	-	-	-	-	-	1	-	-	-	-	-	5	-	-	-	-	-	1	-	-	-	-	-	1	
% Pedestrians	-	-	-	-	-	50.0%	-	-	-	-	-	83.3%	-	-	-	-	-	50.0%	-	-	-	-	-	100%	-
Bicycles on Crosswalk	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	50.0%	-	-	-	-	-	16.7%	-	-	-	-	-	50.0%	-	-	-	-	-	0%	-

*Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

3. Broadway & Holtec Boulevard - TMC
Tue Jun 17, 2025
PM Peak (4 PM - 5 PM) - Overall Peak Hour
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1310742, Location: 39.912662, -75.118036, Site Code: 3

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US



4. Holtec Boulevard & I-676 SB Ramps - TMC

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US

Tue Jun 17, 2025
Full Length (7 AM-9 AM, 2 PM-6 PM)
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1310746, Location: 39.912686, -75.117386, Site Code: 4

Leg	Covanta Recycling Center Driveway						I-676 SB Ramps						Holtec Boulevard						Holtec Boulevard						
Direction	Northbound						Southbound						Eastbound						Westbound						
Time	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	Int
2025-06-17 7:00AM	0	0	1	0	**1**	0	16	1	23	0	**40**	2	0	26	0	0	**26**	0	6	45	38	0	**89**	0	**156**
7:15AM	4	0	4	0	**8**	0	23	0	21	0	**44**	0	0	26	0	0	**26**	0	3	56	42	0	**101**	0	**179**
7:30AM	0	0	3	0	**3**	4	12	1	24	0	**37**	1	0	18	1	0	**19**	0	0	47	40	0	**87**	0	**146**
7:45AM	0	0	3	0	**3**	1	34	0	28	0	**62**	3	0	27	1	0	**28**	0	4	61	46	0	**111**	0	**204**
Hourly Total	4	0	11	0	**15**	5	85	2	96	0	**183**	6	0	97	2	0	**99**	0	13	209	166	0	**388**	0	**685**
8:00AM	0	0	6	0	**6**	2	25	4	17	0	**46**	2	0	29	0	0	**29**	3	5	31	42	0	**78**	0	**159**
8:15AM	1	0	2	0	**3**	0	22	0	16	0	**38**	1	0	18	0	0	**18**	0	5	37	45	0	**87**	0	**146**
8:30AM	0	0	9	0	**9**	1	23	0	17	0	**40**	1	0	30	0	0	**30**	0	2	39	42	0	**83**	0	**162**
8:45AM	0	0	2	0	**2**	0	29	0	22	0	**51**	0	0	21	0	0	**21**	0	5	40	37	3	**85**	0	**159**
Hourly Total	1	0	19	0	**20**	3	99	4	72	0	**175**	4	0	98	0	0	**98**	3	17	147	166	3	**333**	0	**626**
2:00PM	1	0	6	0	**7**	0	15	0	13	0	**28**	1	0	47	1	0	**48**	0	5	15	50	0	**70**	0	**153**
2:15PM	1	0	6	0	**7**	0	35	3	20	0	**58**	1	0	48	0	0	**48**	0	2	28	46	0	**76**	0	**189**
2:30PM	1	0	3	0	**4**	0	39	0	18	0	**57**	2	0	52	0	0	**52**	0	3	26	51	0	**80**	0	**193**
2:45PM	0	0	10	0	**10**	0	34	1	9	0	**44**	5	0	40	0	0	**40**	0	6	26	49	0	**81**	0	**175**
Hourly Total	3	0	25	0	**28**	0	123	4	60	0	**187**	9	0	187	1	0	**188**	0	16	95	196	0	**307**	0	**710**
3:00PM	0	0	5	0	**5**	0	37	0	15	0	**52**	1	0	64	0	0	**64**	0	3	19	71	0	**93**	0	**214**
3:15PM	0	0	10	0	**10**	0	44	0	26	0	**70**	1	0	47	0	0	**47**	0	2	16	81	0	**99**	0	**226**
3:30PM	0	0	6	0	**6**	1	41	0	38	0	**79**	2	0	112	0	0	**112**	0	4	25	60	1	**90**	0	**287**
3:45PM	0	0	4	0	**4**	3	38	0	36	0	**74**	0	0	58	0	0	**58**	1	4	19	34	0	**57**	0	**193**
Hourly Total	0	0	25	0	**25**	4	160	0	115	0	**275**	4	0	281	0	0	**281**	1	13	79	246	1	**339**	0	**920**
4:00PM	0	0	7	0	**7**	0	57	0	18	0	**75**	3	0	96	1	0	**97**	0	4	16	43	0	**63**	0	**242**
4:15PM	0	0	4	0	**4**	1	54	1	71	0	**126**	2	0	81	0	0	**81**	0	1	20	35	0	**56**	0	**267**
4:30PM	0	0	4	0	**4**	0	47	0	82	0	**129**	4	0	75	1	0	**76**	0	0	8	29	0	**37**	0	**246**
4:45PM	1	0	5	0	**6**	0	54	0	88	0	**142**	1	0	64	0	0	**64**	0	0	11	24	0	**35**	0	**247**
Hourly Total	1	0	20	0	**21**	1	212	1	259	0	**472**	10	0	316	2	0	**318**	0	5	55	131	0	**191**	0	**1002**
5:00PM	0	0	0	0	**0**	0	40	0	54	0	**94**	0	0	82	0	0	**82**	0	0	14	42	0	**56**	0	**232**
5:15PM	0	0	1	0	**1**	0	37	0	43	0	**80**	3	0	60	0	0	**60**	0	1	24	33	0	**58**	0	**199**
5:30PM	0	0	0	0	**0**	0	33	0	39	0	**72**	0	0	50	0	0	**50**	0	3	22	38	0	**63**	0	**185**
5:45PM	0	0	3	0	**3**	1	23	0	28	0	**51**	0	0	34	0	0	**34**	1	2	12	34	0	**48**	0	**136**
Hourly Total	0	0	4	0	**4**	1	133	0	164	0	**297**	3	0	226	0	0	**226**	1	6	72	147	0	**225**	0	**752**
Total	9	0	104	0	**113**	14	812	11	766	0	**1589**	36	0	1205	5	0	**1210**	5	70	657	1052	4	**1783**	0	**4695**
% Approach	8.0%	0%	92.0%	0%	**-**	-	51.1%	0.7%	48.2%	0%	**-**	-	0%	99.6%	0.4%	0%	**-**	-	3.9%	36.8%	59.0%	0.2%	**-**	-	-
% Total	0.2%	0%	2.2%	0%	**2.4%**	-	17.3%	0.2%	16.3%	0%	**33.8%**	-	0%	25.7%	0.1%	0%	**25.8%**	-	1.5%	14.0%	22.4%	0.1%	**38.0%**	-	-
Lights	1	0	38	0	**39**	-	760	3	727	0	**1490**	-	0	1003	3	0	**1006**	-	18	537	989	4	**1548**	-	4083
% Lights	11.1%	0%	36.5%	0%	**34.5%**	-	93.6%	27.3%	94.9%	0%	**93.8%**	-	0%	83.2%	60.0%	0%	**83.1%**	-	25.7%	81.7%	94.0%	100%	**86.8%**	-	87.0%
Articulated Trucks and Single-Unit Trucks	8	0	65	0	**73**	-	31	8	36	0	**75**	-	0	192	2	0	**194**	-	51	109	54	0	**214**	-	556
% Articulated Trucks and Single-Unit Trucks	88.9%	0%	62.5%	0%	**64.6%**	-	3.8%	72.7%	4.7%	0%	**4.7%**	-	0%	15.9%	40.0%	0%	**16.0%**	-	72.9%	16.6%	5.1%	0%	**12.0%**	-	11.8%
Buses	0	0	1	0	**1**	-	21	0	3	0	**24**	-	0	10	0	0	**10**	-	1	11	9	0	**21**	-	56

Leg Direction	Covanta Recycling Center Driveway Northbound						I-676 SB Ramps Southbound						Holtec Boulevard Eastbound						Holtec Boulevard Westbound						
Time	L	T	R	U	**App**	Ped*	L	T	R	U	**App**	Ped*	L	T	R	U	**App**	Ped*	L	T	R	U	**App**	Ped*	**Int**
% Buses	0%	0%	1.0%	0%	**0.9%**	-	2.6%	0%	0.4%	0%	**1.5%**	-	0%	0.8%	0%	0%	**0.8%**	-	1.4%	1.7%	0.9%	0%	**1.2%**	-	1.2%
Pedestrians	-	-	-	-	-	14	-	-	-	-	-	33	-	-	-	-	-	5	-	-	-	-	-	0	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	91.7%	-	-	-	-	-	100%	-	-	-	-	-	-	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	3	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	8.3%	-	-	-	-	-	0%	-	-	-	-	-	-	-

*Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

4. Holtec Boulevard & I-676 SB Ramps - TMC

Tue Jun 17, 2025

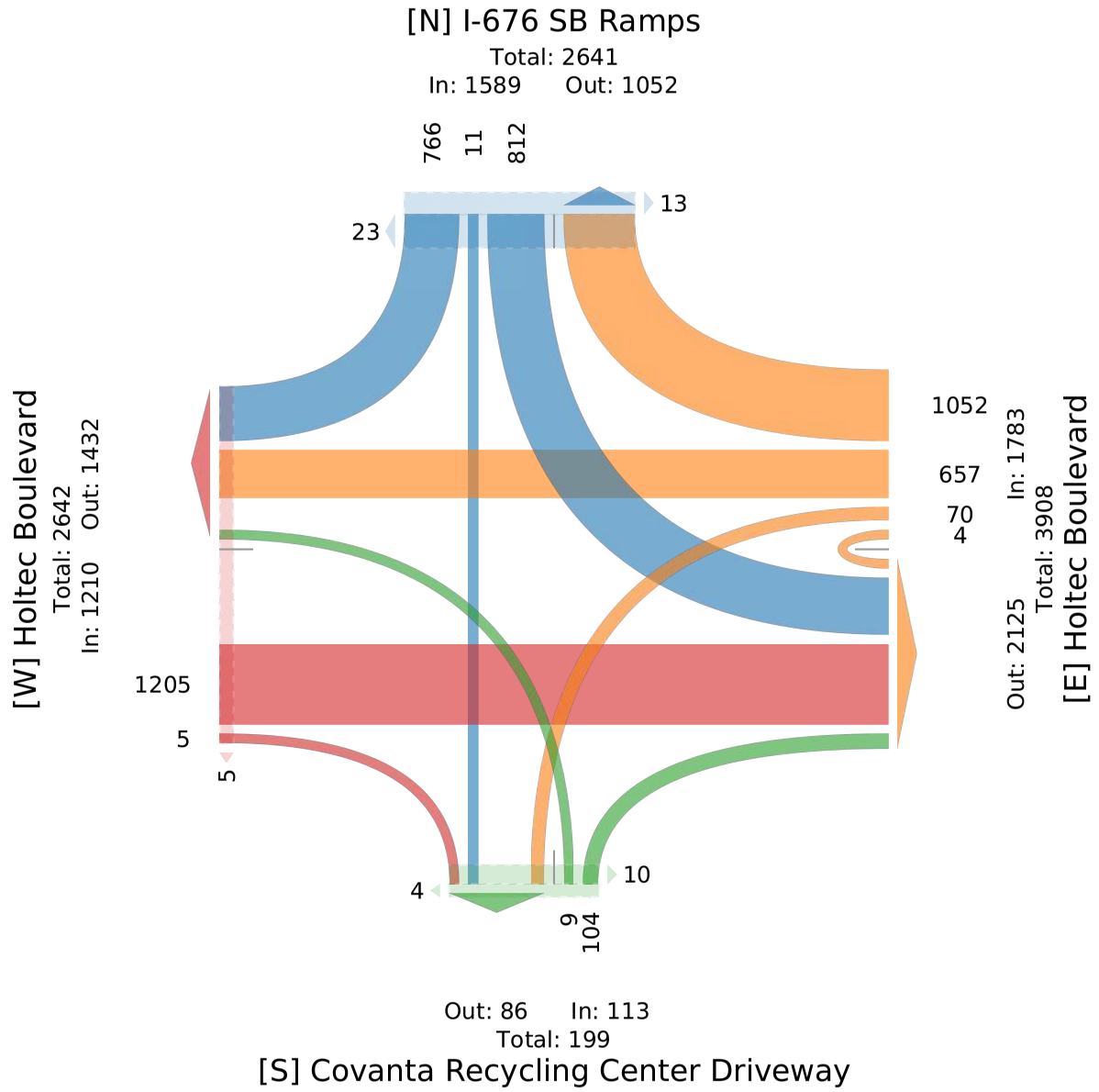
Full Length (7 AM-9 AM, 2 PM-6 PM)

All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)

All Movements

ID: 1310746, Location: 39.912686, -75.117386, Site Code: 4

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US



4. Holtec Boulevard & I-676 SB Ramps - TMC

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US

Tue Jun 17, 2025
AM Peak (7:15 AM - 8:15 AM)
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1310746, Location: 39.912686, -75.117386, Site Code: 4

Leg Direction	Covanta Recycling Center Driveway Northbound						I-676 SB Ramps Southbound						Holtec Boulevard Eastbound						Holtec Boulevard Westbound						
Time	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	Int
2025-06-17 7:15AM	4	0	4	0	**8**	0	23	0	21	0	**44**	0	0	26	0	0	**26**	0	3	56	42	0	**101**	0	**179**
7:30AM	0	0	3	0	**3**	4	12	1	24	0	**37**	1	0	18	1	0	**19**	0	0	47	40	0	**87**	0	**146**
7:45AM	0	0	3	0	**3**	1	34	0	28	0	**62**	3	0	27	1	0	**28**	0	4	61	46	0	**111**	0	**204**
8:00AM	0	0	6	0	**6**	2	25	4	17	0	**46**	2	0	29	0	0	**29**	3	5	31	42	0	**78**	0	**159**
Total	4	0	16	0	**20**	7	94	5	90	0	**189**	6	0	100	2	0	**102**	3	12	195	170	0	**377**	0	**688**
% Approach	20.0%	0%	80.0%	0%	**-**	-	49.7%	2.6%	47.6%	0%	**-**	-	0%	98.0%	2.0%	0%	**-**	-	3.2%	51.7%	45.1%	0%	**-**	-	-
% Total	0.6%	0%	2.3%	0%	**2.9%**	-	13.7%	0.7%	13.1%	0%	**27.5%**	-	0%	14.5%	0.3%	0%	**14.8%**	-	1.7%	28.3%	24.7%	0%	**54.8%**	-	-
PHF	0.250	-	0.667	-	**0.625**	-	0.691	0.313	0.804	-	**0.762**	-	-	0.862	0.500	-	**0.879**	-	0.600	0.799	0.924	-	**0.849**	-	0.843
Lights	0	0	3	0	**3**	-	83	1	77	0	**161**	-	0	63	2	0	**65**	-	2	156	153	0	**311**	-	540
% Lights	0%	0%	18.8%	0%	**15.0%**	-	88.3%	20.0%	85.6%	0%	**85.2%**	-	0%	63.0%	100%	0%	**63.7%**	-	16.7%	80.0%	90.0%	0%	**82.5%**	-	78.5%
Articulated Trucks and Single-Unit Trucks	4	0	13	0	**17**	-	4	4	12	0	**20**	-	0	34	0	0	**34**	-	10	37	13	0	**60**	-	131
% Articulated Trucks and Single-Unit Trucks	100%	0%	81.3%	0%	**85.0%**	-	4.3%	80.0%	13.3%	0%	**10.6%**	-	0%	34.0%	0%	0%	**33.3%**	-	83.3%	19.0%	7.6%	0%	**15.9%**	-	19.0%
Buses	0	0	0	0	**0**	-	7	0	1	0	**8**	-	0	3	0	0	**3**	-	0	2	4	0	**6**	-	17
% Buses	0%	0%	0%	0%	**0%**	-	7.4%	0%	1.1%	0%	**4.2%**	-	0%	3.0%	0%	0%	**2.9%**	-	0%	1.0%	2.4%	0%	**1.6%**	-	2.5%
Pedestrians	-	-	-	-	-	7	-	-	-	-	-	5	-	-	-	-	-	3	-	-	-	-	-	0	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	83.3%	-	-	-	-	-	100%	-	-	-	-	-	-	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	1	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	16.7%	-	-	-	-	-	0%	-	-	-	-	-	-	-

*Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

4. Holtec Boulevard & I-676 SB Ramps - TMC

Tue Jun 17, 2025

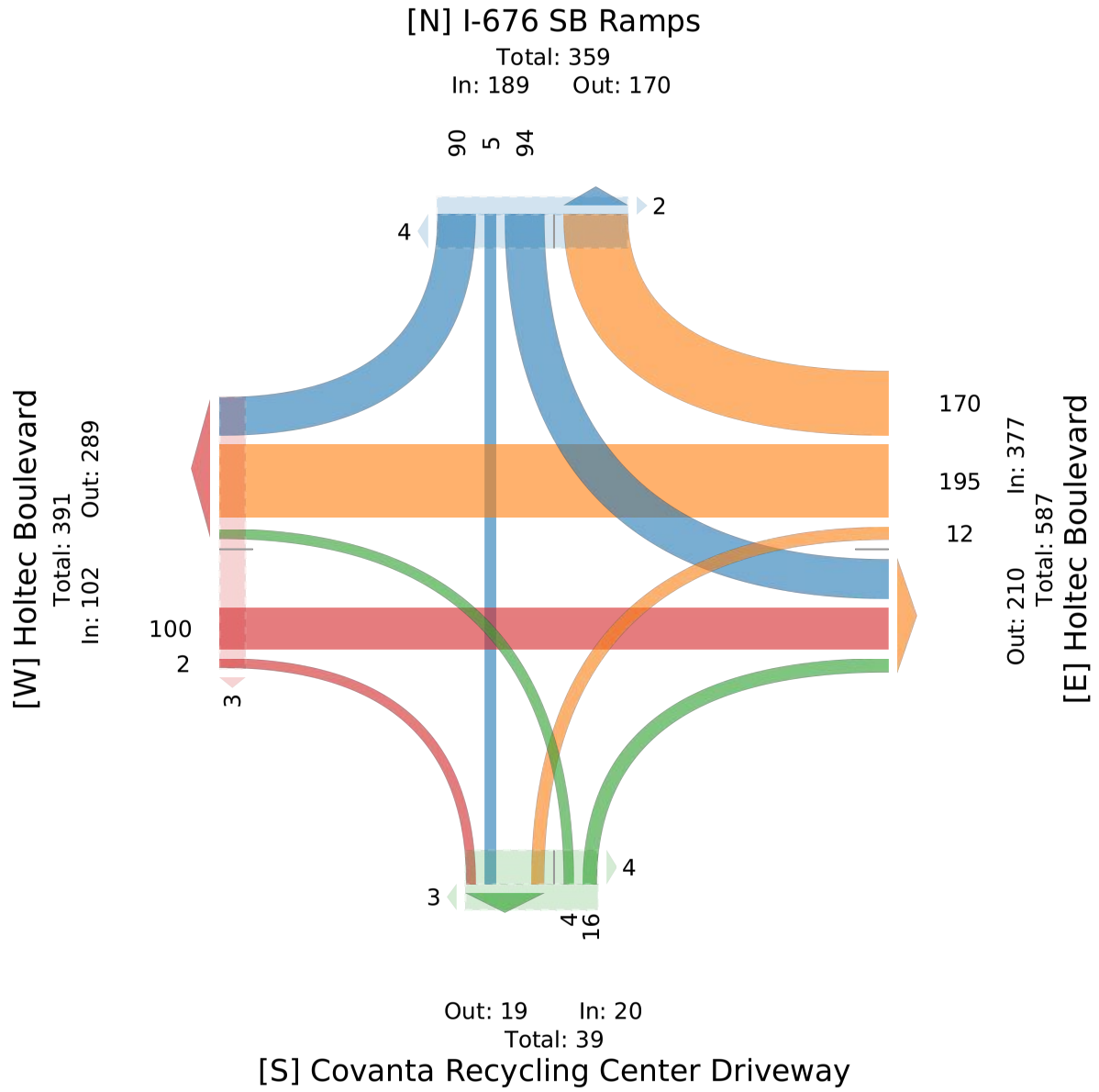
AM Peak (7:15 AM - 8:15 AM)

All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)

All Movements

ID: 1310746, Location: 39.912686, -75.117386, Site Code: 4

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US



4. Holtec Boulevard & I-676 SB Ramps - TMC

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US

Tue Jun 17, 2025
PM Peak (4 PM - 5 PM) - Overall Peak Hour
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1310746, Location: 39.912686, -75.117386, Site Code: 4

Leg	Covanta Recycling Center Driveway						I-676 SB Ramps						Holtec Boulevard						Holtec Boulevard						
Direction	Northbound						Southbound						Eastbound						Westbound						
Time	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	Int
2025-06-17 4:00PM	0	0	7	0	**7**	0	57	0	18	0	**75**	3	0	96	1	0	**97**	0	4	16	43	0	**63**	0	**242**
4:15PM	0	0	4	0	**4**	1	54	1	71	0	**126**	2	0	81	0	0	**81**	0	1	20	35	0	**56**	0	**267**
4:30PM	0	0	4	0	**4**	0	47	0	82	0	**129**	4	0	75	1	0	**76**	0	0	8	29	0	**37**	0	**246**
4:45PM	1	0	5	0	**6**	0	54	0	88	0	**142**	1	0	64	0	0	**64**	0	0	11	24	0	**35**	0	**247**
Total	1	0	20	0	**21**	1	212	1	259	0	**472**	10	0	316	2	0	**318**	0	5	55	131	0	**191**	0	**1002**
% Approach	4.8%	0%	95.2%	0%	**-**	-	44.9%	0.2%	54.9%	0%	**-**	-	0%	99.4%	0.6%	0%	**-**	-	2.6%	28.8%	68.6%	0%	**-**	-	-
% Total	0.1%	0%	2.0%	0%	**2.1%**	-	21.2%	0.1%	25.8%	0%	**47.1%**	-	0%	31.5%	0.2%	0%	**31.7%**	-	0.5%	5.5%	13.1%	0%	**19.1%**	-	-
PHF	0.250	-	0.714	-	**0.750**	-	0.930	0.250	0.736	-	**0.831**	-	-	0.823	0.500	-	**0.820**	-	0.313	0.688	0.762	-	**0.758**	-	0.938
Lights	0	0	12	0	**12**	-	205	0	256	0	**461**	-	0	288	1	0	**289**	-	2	52	128	0	**182**	-	944
% Lights	0%	0%	60.0%	0%	**57.1%**	-	96.7%	0%	98.8%	0%	**97.7%**	-	0%	91.1%	50.0%	0%	**90.9%**	-	40.0%	94.5%	97.7%	0%	**95.3%**	-	94.2%
Articulated Trucks and Single-Unit Trucks	1	0	8	0	**9**	-	4	1	2	0	**7**	-	0	27	1	0	**28**	-	2	2	3	0	**7**	-	51
% Articulated Trucks and Single-Unit Trucks	100%	0%	40.0%	0%	**42.9%**	-	1.9%	100%	0.8%	0%	**1.5%**	-	0%	8.5%	50.0%	0%	**8.8%**	-	40.0%	3.6%	2.3%	0%	**3.7%**	-	5.1%
Buses	0	0	0	0	**0**	-	3	0	1	0	**4**	-	0	1	0	0	**1**	-	1	1	0	0	**2**	-	7
% Buses	0%	0%	0%	0%	**0%**	-	1.4%	0%	0.4%	0%	**0.8%**	-	0%	0.3%	0%	0%	**0.3%**	-	20.0%	1.8%	0%	0%	**1.0%**	-	0.7%
Pedestrians	-	-	-	-	-	1	-	-	-	-	-	9	-	-	-	-	-	0	-	-	-	-	-	0	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	90.0%	-	-	-	-	-	-	-	-	-	-	-	-	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	1	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	10.0%	-	-	-	-	-	-	-	-	-	-	-	-	-

*Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

4. Holtec Boulevard & I-676 SB Ramps - TMC

Tue Jun 17, 2025

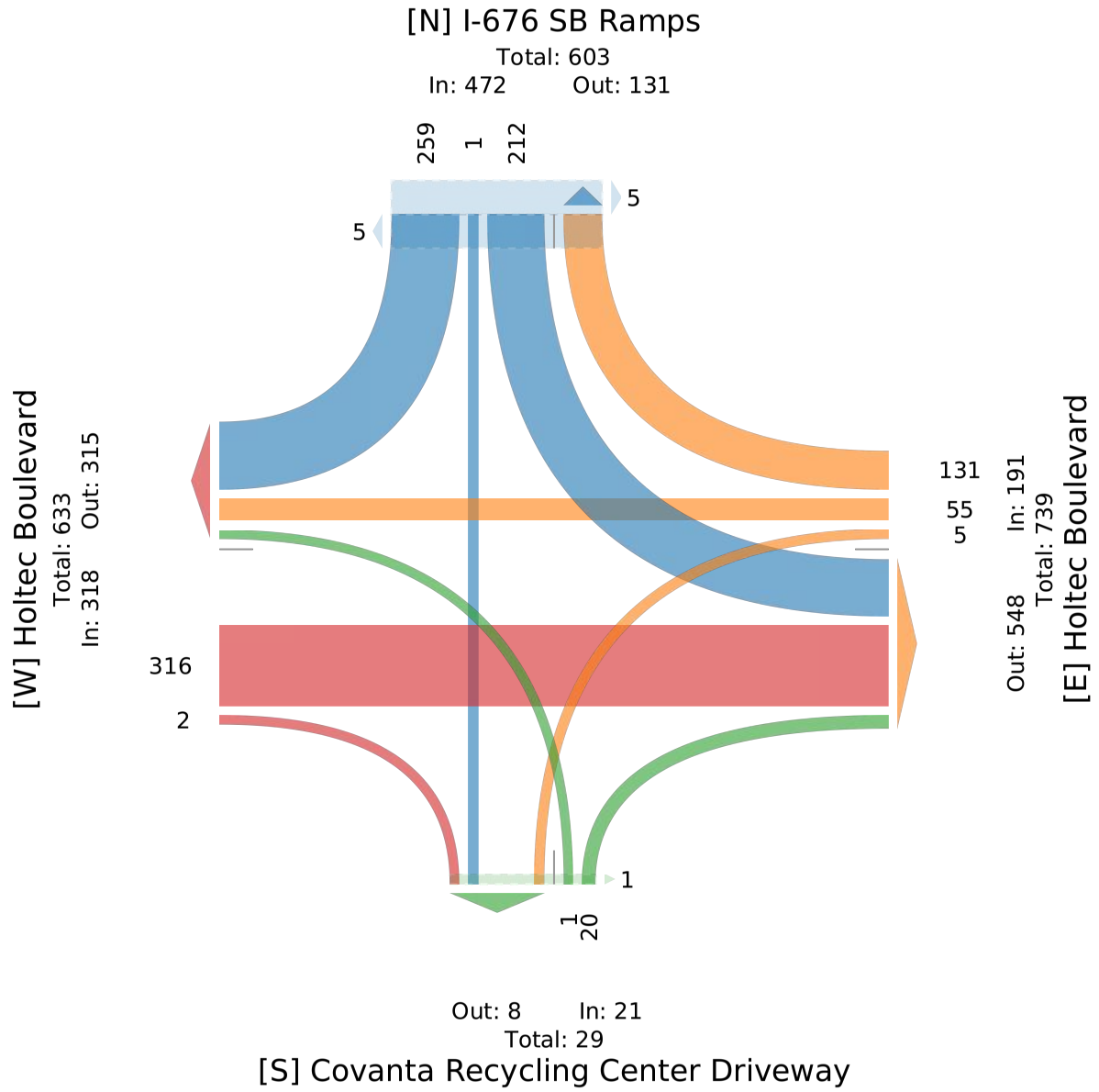
PM Peak (4 PM - 5 PM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)

All Movements

ID: 1310746, Location: 39.912686, -75.117386, Site Code: 4

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US



5. Holtec Boulevard/Morgan Street & I-676 NB... - TMC

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US

Tue Jun 17, 2025
Full Length (7 AM-9 AM, 2 PM-6 PM)
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1310749, Location: 39.91259, -75.114578, Site Code: 5

Leg	I-676 NB Ramps						Master Street						Holtec Boulevard						Morgan Street						
Direction	Northbound						Southbound						Eastbound						Westbound						
Time	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	Int
2025-06-17 7:00AM	41	9	70	0	**120**	0	1	0	22	0	**23**	0	0	24	12	0	**36**	0	0	39	0	0	**39**	0	**218**
7:15AM	49	18	70	0	**137**	0	1	0	31	0	**32**	0	0	29	6	0	**35**	0	0	37	2	0	**39**	0	**243**
7:30AM	42	18	89	0	**149**	2	5	0	43	0	**48**	2	0	16	2	0	**18**	1	0	36	1	0	**37**	0	**252**
7:45AM	51	26	110	0	**187**	0	2	0	36	0	**38**	0	0	42	9	0	**51**	0	0	49	4	0	**53**	0	**329**
Hourly Total	183	71	339	0	**593**	2	9	0	132	0	**141**	2	0	111	29	0	**140**	1	0	161	7	0	**168**	0	**1042**
8:00AM	35	26	92	0	**153**	1	4	0	30	0	**34**	1	0	34	8	0	**42**	0	0	59	2	0	**61**	0	**290**
8:15AM	34	22	96	0	**152**	1	2	0	40	0	**42**	1	1	23	6	0	**30**	0	0	57	2	0	**59**	0	**283**
8:30AM	38	22	76	0	**136**	0	1	0	47	0	**48**	0	1	30	12	0	**43**	0	0	48	2	0	**50**	0	**277**
8:45AM	43	28	60	0	**131**	0	5	0	30	0	**35**	0	1	35	7	0	**43**	0	0	42	1	0	**43**	0	**252**
Hourly Total	150	98	324	0	**572**	2	12	0	147	0	**159**	2	3	122	33	0	**158**	0	0	206	7	0	**213**	0	**1102**
2:00PM	17	21	57	0	**95**	0	3	0	33	0	**36**	1	0	22	17	0	**39**	0	0	45	3	1	**49**	0	**219**
2:15PM	26	25	82	0	**133**	1	1	0	31	0	**32**	0	1	46	11	0	**58**	0	0	42	2	0	**44**	0	**267**
2:30PM	14	33	65	0	**112**	1	3	0	43	0	**46**	0	1	41	17	0	**59**	0	0	54	2	0	**56**	0	**273**
2:45PM	16	37	79	0	**132**	1	6	0	55	0	**61**	0	0	45	8	0	**53**	0	0	48	2	1	**51**	0	**297**
Hourly Total	73	116	283	0	**472**	3	13	0	162	0	**175**	1	2	154	53	0	**209**	0	0	189	9	2	**200**	0	**1056**
3:00PM	13	24	67	0	**104**	0	5	0	48	0	**53**	0	0	42	14	0	**56**	0	0	63	3	0	**66**	0	**279**
3:15PM	6	16	66	0	**88**	0	2	0	54	0	**56**	1	0	64	12	0	**76**	0	0	63	3	0	**66**	0	**286**
3:30PM	14	32	77	0	**123**	1	4	0	57	0	**61**	2	0	60	32	0	**92**	0	0	52	8	0	**60**	0	**336**
3:45PM	8	27	71	0	**106**	3	6	0	42	0	**48**	0	1	55	11	0	**67**	0	0	37	3	0	**40**	0	**261**
Hourly Total	41	99	281	0	**421**	4	17	0	201	0	**218**	3	1	221	69	0	**291**	0	0	215	17	0	**232**	0	**1162**
4:00PM	5	23	80	0	**108**	0	4	0	41	0	**45**	2	2	73	22	0	**97**	0	0	51	2	0	**53**	0	**303**
4:15PM	9	28	78	0	**115**	2	6	0	35	0	**41**	2	0	68	21	0	**89**	0	0	38	1	0	**39**	0	**284**
4:30PM	3	21	62	0	**86**	1	8	0	27	0	**35**	1	2	57	21	0	**80**	0	0	36	4	1	**41**	0	**242**
4:45PM	4	26	66	0	**96**	1	8	0	20	0	**28**	1	1	63	23	1	**88**	0	0	39	3	0	**42**	0	**254**
Hourly Total	21	98	286	0	**405**	4	26	0	123	0	**149**	6	5	261	87	1	**354**	0	0	164	10	1	**175**	0	**1083**
5:00PM	4	17	77	0	**98**	0	6	0	36	0	**42**	0	2	61	30	0	**93**	0	0	50	7	0	**57**	0	**290**
5:15PM	11	17	54	0	**82**	0	11	0	28	0	**39**	2	0	51	14	0	**65**	0	0	46	3	0	**49**	0	**235**
5:30PM	10	26	74	0	**110**	0	6	0	39	0	**45**	0	0	45	11	0	**56**	0	0	45	3	0	**48**	0	**259**
5:45PM	6	20	64	0	**90**	1	5	0	31	1	**37**	0	0	35	14	0	**49**	0	0	43	3	0	**46**	0	**222**
Hourly Total	31	80	269	0	**380**	1	28	0	134	1	**163**	2	2	192	69	0	**263**	0	0	184	16	0	**200**	0	**1006**
Total	499	562	1782	0	**2843**	16	105	0	899	1	**1005**	16	13	1061	340	1	**1415**	1	0	1119	66	3	**1188**	0	**6451**
% Approach	17.6%	19.8%	62.7%	0%	**-**	-	10.4%	0%	89.5%	0.1%	**-**	-	0.9%	75.0%	24.0%	0.1%	**-**	-	0%	94.2%	5.6%	0.3%	**-**	-	-
% Total	7.7%	8.7%	27.6%	0%	**44.1%**	-	1.6%	0%	13.9%	0%	**15.6%**	-	0.2%	16.4%	5.3%	0%	**21.9%**	-	0%	17.3%	1.0%	0%	**18.4%**	-	-
Lights	350	528	1677	0	**2555**	-	96	0	869	1	**966**	-	13	973	271	1	**1258**	-	0	1010	63	3	**1076**	-	5855
% Lights	70.1%	94.0%	94.1%	0%	**89.9%**	-	91.4%	0%	96.7%	100%	**96.1%**	-	100%	91.7%	79.7%	100%	**88.9%**	-	0%	90.3%	95.5%	100%	**90.6%**	-	90.8%
Articulated Trucks and Single-Unit Trucks	146	29	75	0	**250**	-	1	0	28	0	**29**	-	0	59	67	0	**126**	-	0	74	1	0	**75**	-	480
% Articulated Trucks and Single-Unit Trucks	29.3%	5.2%	4.2%	0%	**8.8%**	-	1.0%	0%	3.1%	0%	**2.9%**	-	0%	5.6%	19.7%	0%	**8.9%**	-	0%	6.6%	1.5%	0%	**6.3%**	-	7.4%
Buses	3	5	30	0	**38**	-	8	0	2	0	**10**	-	0	29	2	0	**31**	-	0	35	2	0	**37**	-	116

Leg Direction	I-676 NB Ramps Northbound						Master Street Southbound						Holtec Boulevard Eastbound						Morgan Street Westbound						
Time	L	T	R	U	**App**	Ped*	L	T	R	U	**App**	Ped*	L	T	R	U	**App**	Ped*	L	T	R	U	**App**	Ped*	**Int**
% Buses	0.6%	0.9%	1.7%	0%	**1.3%**	-	7.6%	0%	0.2%	0%	**1.0%**	-	0%	2.7%	0.6%	0%	**2.2%**	-	0%	3.1%	3.0%	0%	**3.1%**	-	1.8%
Pedestrians	-	-	-	-	-	14	-	-	-	-	-	15	-	-	-	-	-	1	-	-	-	-	-	0	
% Pedestrians	-	-	-	-	-	87.5%	-	-	-	-	-	93.8%	-	-	-	-	-	100%	-	-	-	-	-	-	-
Bicycles on Crosswalk	-	-	-	-	-	2	-	-	-	-	-	1	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	12.5%	-	-	-	-	-	6.3%	-	-	-	-	-	0%	-	-	-	-	-	-	-

*Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

5. Holtec Boulevard/Morgan Street & I-676 NB... - TMC

Tue Jun 17, 2025

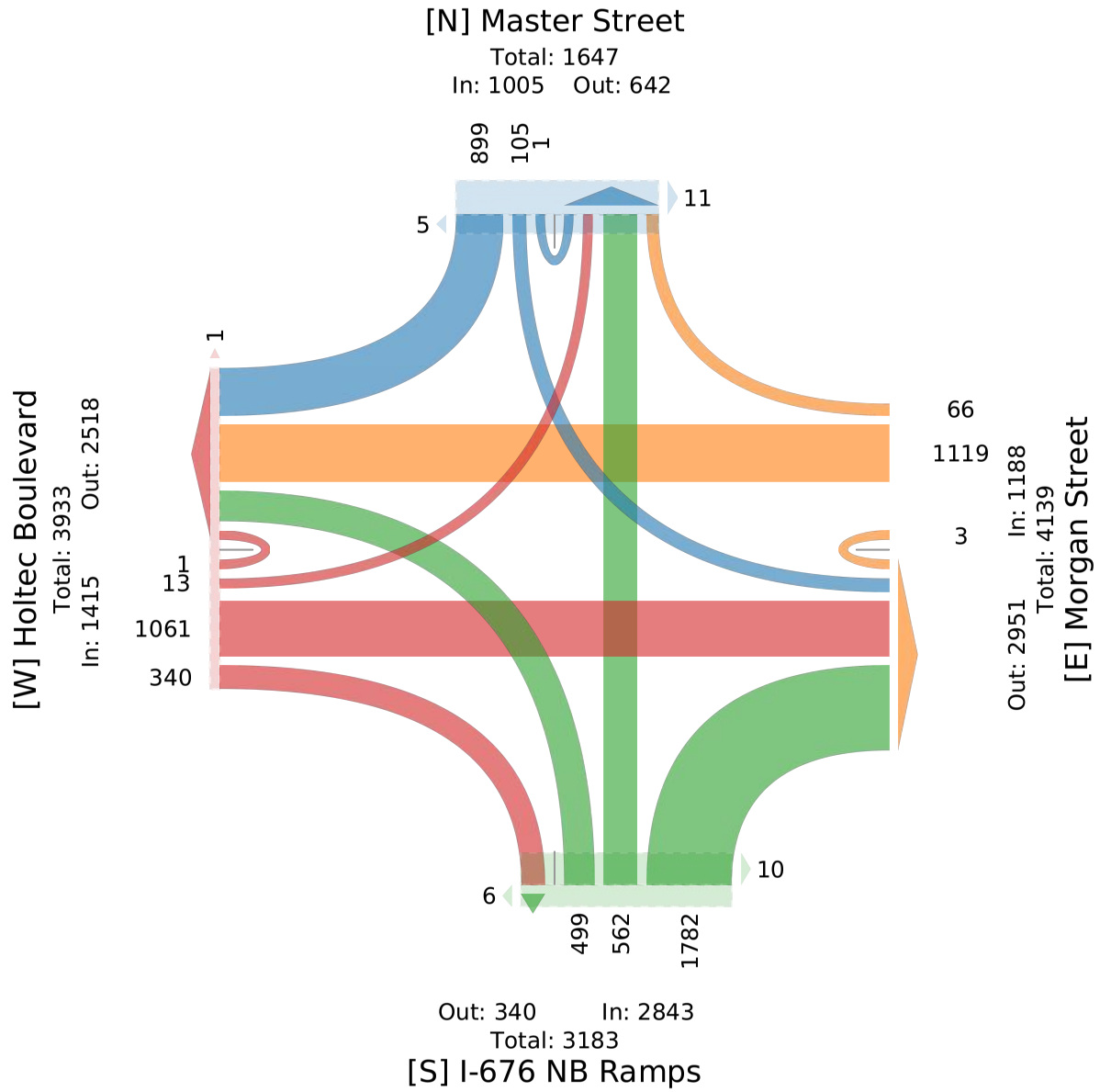
Full Length (7 AM-9 AM, 2 PM-6 PM)

All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)

All Movements

ID: 1310749, Location: 39.91259, -75.114578, Site Code: 5

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US



5. Holtec Boulevard/Morgan Street & I-676 NB... - TMC

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US

Tue Jun 17, 2025
AM Peak (7:45 AM - 8:45 AM)
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1310749, Location: 39.91259, -75.114578, Site Code: 5

Leg	I-676 NB Ramps						Master Street						Holtec Boulevard						Morgan Street						
Direction	Northbound						Southbound						Eastbound						Westbound						
Time	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	Int
2025-06-17 7:45AM	51	26	110	0	**187**	0	2	0	36	0	**38**	0	0	42	9	0	**51**	0	0	49	4	0	**53**	0	**329**
8:00AM	35	26	92	0	**153**	1	4	0	30	0	**34**	1	0	34	8	0	**42**	0	0	59	2	0	**61**	0	**290**
8:15AM	34	22	96	0	**152**	1	2	0	40	0	**42**	1	1	23	6	0	**30**	0	0	57	2	0	**59**	0	**283**
8:30AM	38	22	76	0	**136**	0	1	0	47	0	**48**	0	1	30	12	0	**43**	0	0	48	2	0	**50**	0	**277**
Total	158	96	374	0	**628**	2	9	0	153	0	**162**	2	2	129	35	0	**166**	0	0	213	10	0	**223**	0	**1179**
% Approach	25.2%	15.3%	59.6%	0%	**-**	-	5.6%	0%	94.4%	0%	**-**	-	1.2%	77.7%	21.1%	0%	**-**	-	0%	95.5%	4.5%	0%	**-**	-	-
% Total	13.4%	8.1%	31.7%	0%	**53.3%**	-	0.8%	0%	13.0%	0%	**13.7%**	-	0.2%	10.9%	3.0%	0%	**14.1%**	-	0%	18.1%	0.8%	0%	**18.9%**	-	-
PHF	0.775	0.923	0.850	-	**0.840**	-	0.563	-	0.814	-	**0.844**	-	0.500	0.768	0.729	-	**0.814**	-	-	0.903	0.625	-	**0.914**	-	0.896
Lights	112	88	352	0	**552**	-	9	0	144	0	**153**	-	2	111	21	0	**134**	-	0	176	9	0	**185**	-	1024
% Lights	70.9%	91.7%	94.1%	0%	**87.9%**	-	100%	0%	94.1%	0%	**94.4%**	-	100%	86.0%	60.0%	0%	**80.7%**	-	0%	82.6%	90.0%	0%	**83.0%**	-	86.9%
Articulated Trucks and Single-Unit Trucks	44	5	12	0	**61**	-	0	0	9	0	**9**	-	0	10	14	0	**24**	-	0	22	0	0	**22**	-	116
% Articulated Trucks and Single-Unit Trucks	27.8%	5.2%	3.2%	0%	**9.7%**	-	0%	0%	5.9%	0%	**5.6%**	-	0%	7.8%	40.0%	0%	**14.5%**	-	0%	10.3%	0%	0%	**9.9%**	-	9.8%
Buses	2	3	10	0	**15**	-	0	0	0	0	**0**	-	0	8	0	0	**8**	-	0	15	1	0	**16**	-	39
% Buses	1.3%	3.1%	2.7%	0%	**2.4%**	-	0%	0%	0%	0%	**0%**	-	0%	6.2%	0%	0%	**4.8%**	-	0%	7.0%	10.0%	0%	**7.2%**	-	3.3%
Pedestrians	-	-	-	-	-	2	-	-	-	-	-	2	-	-	-	-	-	0	-	-	-	-	-	0	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	-	-	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	-	-	-	-	-	-	-	-

*Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

5. Holtec Boulevard/Morgan Street & I-676 NB... - TMC

Tue Jun 17, 2025

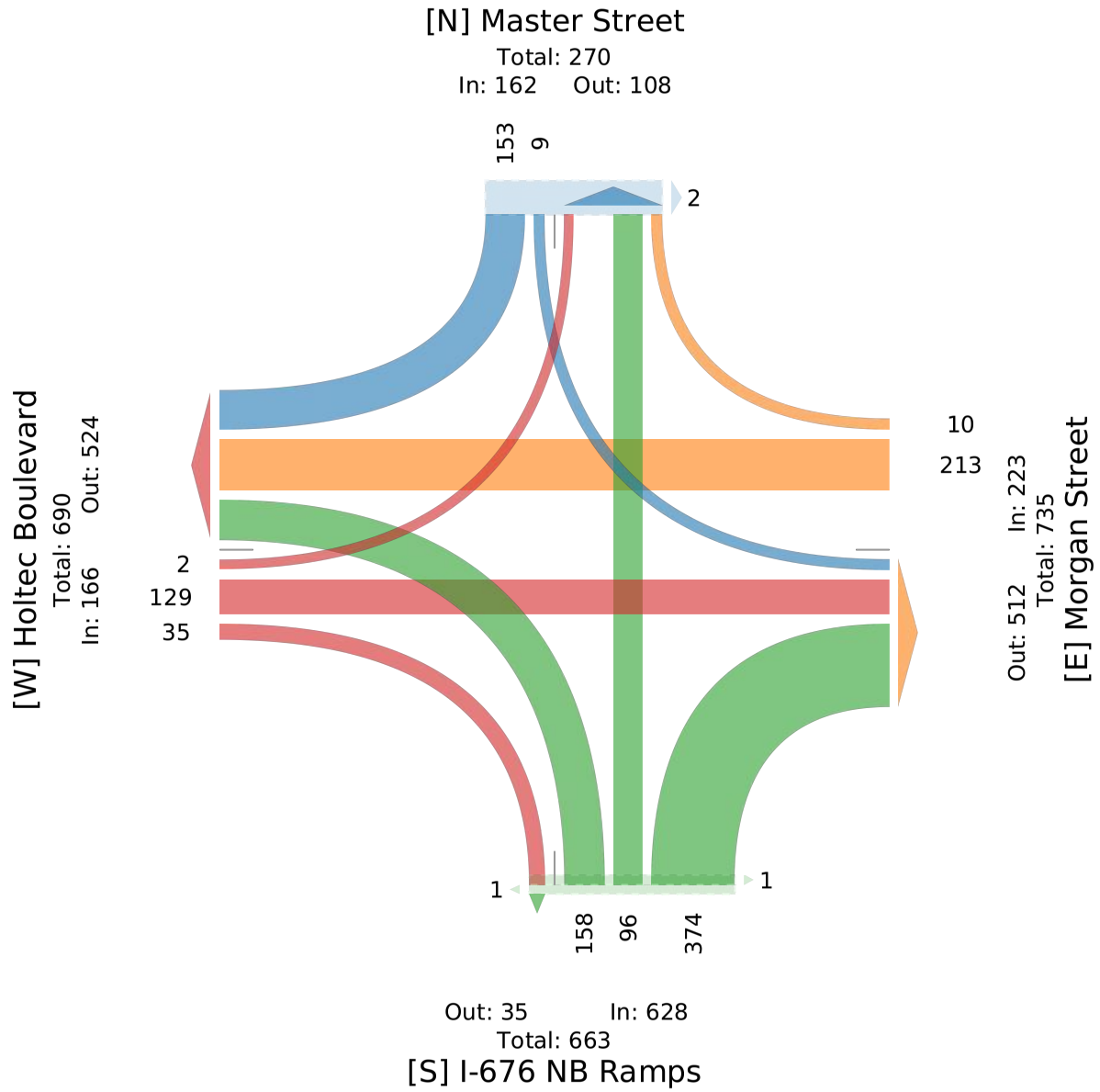
AM Peak (7:45 AM - 8:45 AM)

All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)

All Movements

ID: 1310749, Location: 39.91259, -75.114578, Site Code: 5

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US



5. Holtec Boulevard/Morgan Street & I-676 NB... - TMC

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US

Tue Jun 17, 2025
PM Peak (2:45 PM - 3:45 PM) - Overall Peak Hour
All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)
All Movements
ID: 1310749, Location: 39.91259, -75.114578, Site Code: 5

Leg	I-676 NB Ramps						Master Street						Holtec Boulevard						Morgan Street						
Direction	Northbound						Southbound						Eastbound						Westbound						
Time	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	L	T	R	U	App	Ped*	Int
2025-06-17 2:45PM	16	37	79	0	**132**	1	6	0	55	0	**61**	0	0	45	8	0	**53**	0	0	48	2	1	**51**	0	**297**
3:00PM	13	24	67	0	**104**	0	5	0	48	0	**53**	0	0	42	14	0	**56**	0	0	63	3	0	**66**	0	**279**
3:15PM	6	16	66	0	**88**	0	2	0	54	0	**56**	1	0	64	12	0	**76**	0	0	63	3	0	**66**	0	**286**
3:30PM	14	32	77	0	**123**	1	4	0	57	0	**61**	2	0	60	32	0	**92**	0	0	52	8	0	**60**	0	**336**
Total	49	109	289	0	**447**	2	17	0	214	0	**231**	3	0	211	66	0	**277**	0	0	226	16	1	**243**	0	**1198**
% Approach	11.0%	24.4%	64.7%	0%	**-**	-	7.4%	0%	92.6%	0%	**-**	-	0%	76.2%	23.8%	0%	**-**	-	0%	93.0%	6.6%	0.4%	**-**	-	-
% Total	4.1%	9.1%	24.1%	0%	**37.3%**	-	1.4%	0%	17.9%	0%	**19.3%**	-	0%	17.6%	5.5%	0%	**23.1%**	-	0%	18.9%	1.3%	0.1%	**20.3%**	-	-
PHF	0.766	0.736	0.915	-	**0.847**	-	0.708	-	0.939	-	**0.947**	-	-	0.824	0.516	-	**0.753**	-	-	0.897	0.500	0.250	**0.920**	-	0.891
Lights	22	103	266	0	**391**	-	16	0	209	0	**225**	-	0	191	56	0	**247**	-	0	199	16	1	**216**	-	1079
% Lights	44.9%	94.5%	92.0%	0%	**87.5%**	-	94.1%	0%	97.7%	0%	**97.4%**	-	0%	90.5%	84.8%	0%	**89.2%**	-	0%	88.1%	100%	100%	**88.9%**	-	90.1%
Articulated Trucks and Single-Unit Trucks	27	4	16	0	**47**	-	0	0	5	0	**5**	-	0	15	10	0	**25**	-	0	18	0	0	**18**	-	95
% Articulated Trucks and Single-Unit Trucks	55.1%	3.7%	5.5%	0%	**10.5%**	-	0%	0%	2.3%	0%	**2.2%**	-	0%	7.1%	15.2%	0%	**9.0%**	-	0%	8.0%	0%	0%	**7.4%**	-	7.9%
Buses	0	2	7	0	**9**	-	1	0	0	0	**1**	-	0	5	0	0	**5**	-	0	9	0	0	**9**	-	24
% Buses	0%	1.8%	2.4%	0%	**2.0%**	-	5.9%	0%	0%	0%	**0.4%**	-	0%	2.4%	0%	0%	**1.8%**	-	0%	4.0%	0%	0%	**3.7%**	-	2.0%
Pedestrians	-	-	-	-	-	2	-	-	-	-	-	3	-	-	-	-	-	0	-	-	-	-	-	0	
% Pedestrians	-	-	-	-	-	100%	-	-	-	-	-	100%	-	-	-	-	-	-	-	-	-	-	-	-	-
Bicycles on Crosswalk	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-	-	-	-	0	
% Bicycles on Crosswalk	-	-	-	-	-	0%	-	-	-	-	-	0%	-	-	-	-	-	-	-	-	-	-	-	-	-

*Pedestrians and Bicycles on Crosswalk. L: Left, R: Right, T: Thru, U: U-Turn

5. Holtec Boulevard/Morgan Street & I-676 NB... - TMC

Tue Jun 17, 2025

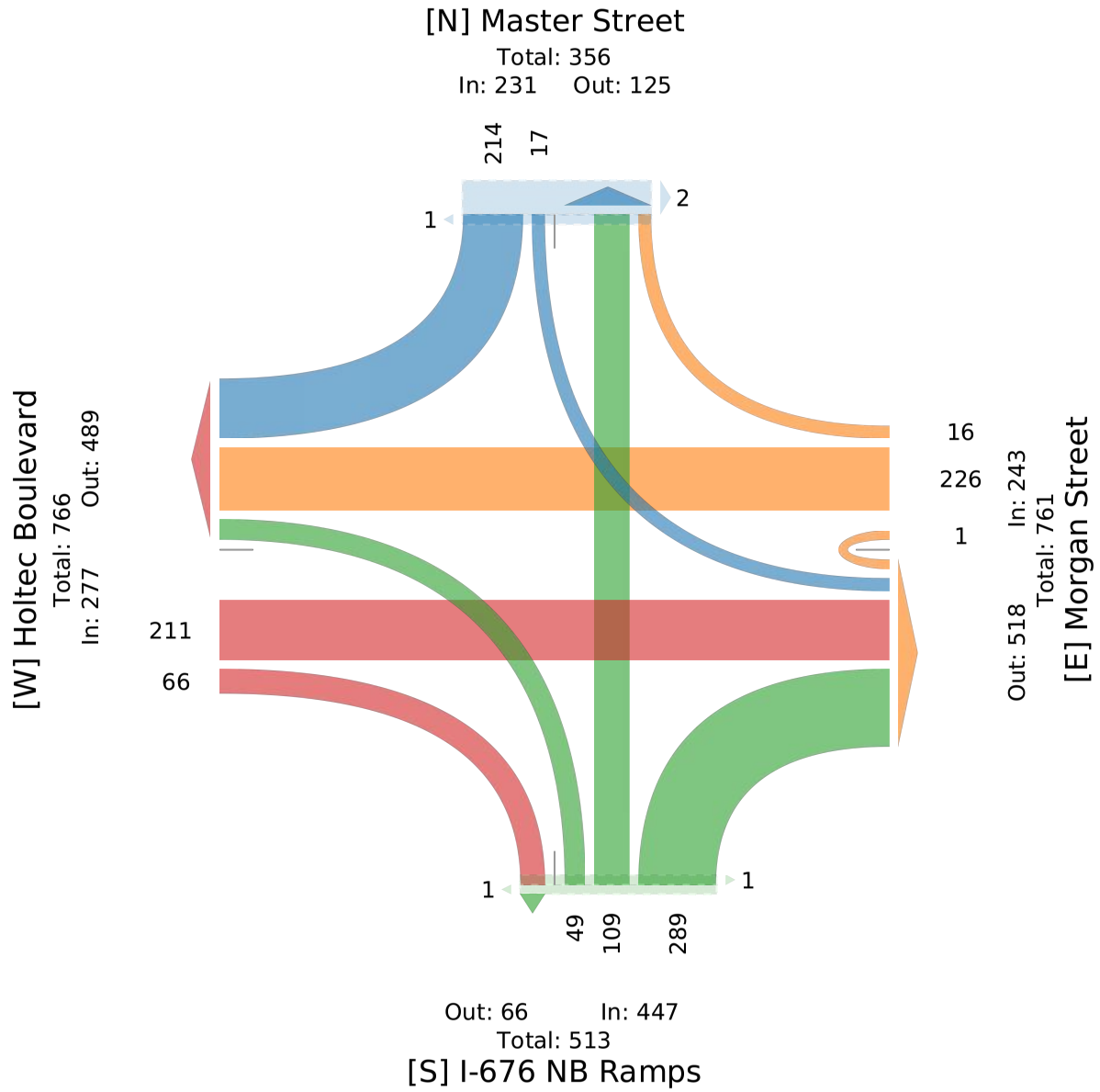
PM Peak (2:45 PM - 3:45 PM) - Overall Peak Hour

All Classes (Lights, Articulated Trucks and Single-Unit Trucks, Buses, Pedestrians, Bicycles on Crosswalk)

All Movements

ID: 1310749, Location: 39.91259, -75.114578, Site Code: 5

Provided by: Imperial Traffic & Data Collection
PO Box 4637, Cherry Hill, NJ, 08003, US



ROUTE 551 (South to North)

Mile Posts: 32.000 - 34.570



Pavement

Shoulder

Number of Lanes

Speed Limit

Street Name

Interstate Route

US Route

NJ Route

County Road

Interchange Number

Grade Separated Interchange

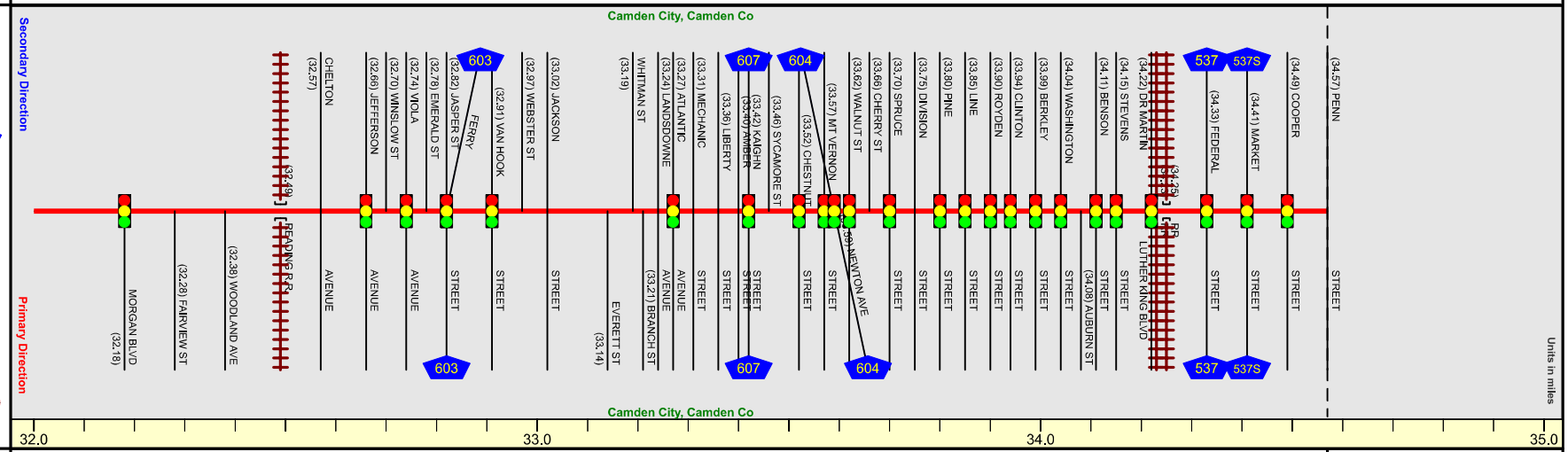
Traffic Signal

Traffic Monitoring Sites

Road Underpass

Road Overpass

Dyn Msg Sign



Street Name	Broadway
Jurisdiction	County
Functional Class	Urban Minor Arterial / Urban Principal Arterial
Federal Aid - NHS Sy	NHS / IM - Transit Term.
Control Section	
Speed Limit	25
Number of Lanes	2
Med. Type	None
Med. Width	
Pavement	36
Shoulder	
Traffic Volume	3,792 (2019) / 4,511 (2018)
Traffic Sta. ID	7-4660 / 7-4453
Structure No.	0455160
Enlarged Views	See Enlarged View #14

End Rt. 551 MP=34.57

SRI = 00000551__

Date last inventoried: June 2012

Page Created: June, 2020

MP 1.00 - 1.30



Beginning of Ramp

End of Ramp

Ramp

SRI RAMP IDENTIFICATION

I 676 at Morgan Boulevard

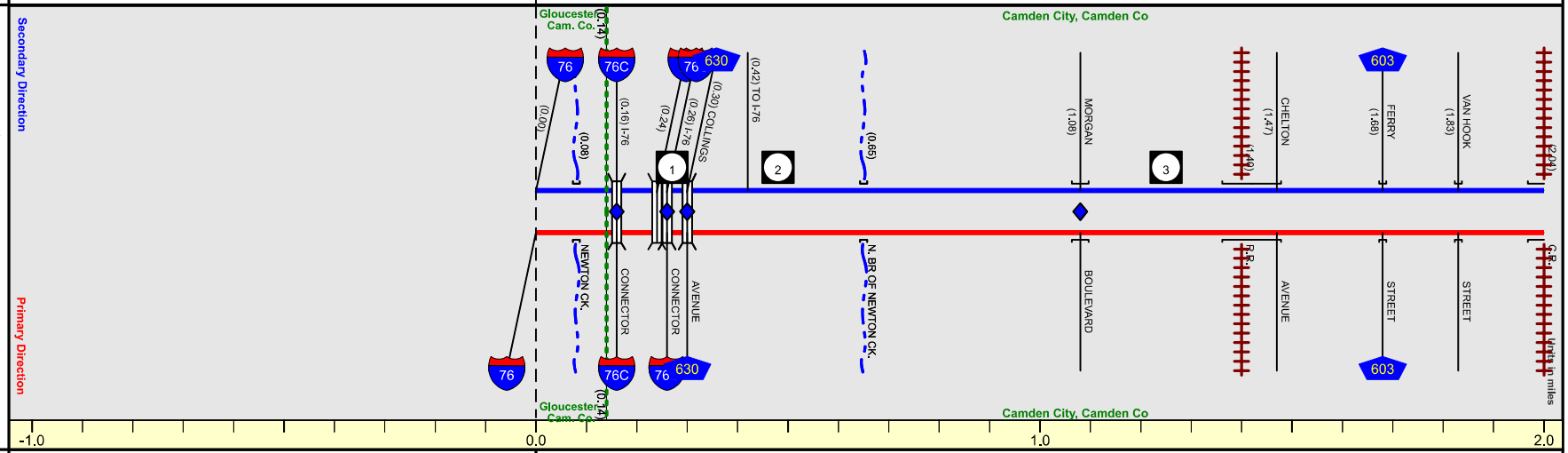
SRI = 00000676__

I-676 (South to North)

Mile Posts: 0.000 - 2.000



Pavement	36	48	36
Shoulder	12		
Number of Lanes	3	4	3
Speed Limit	55		
Street Name	Martin Luther King Memorial Highway		



Street Name	Martin Luther King Memorial Highway		
Jurisdiction	N.J.D.O.T.		
Functional Class	Urban Interstate		
Federal Aid - NHS Sy	STRAHNET Inter.		
Control Section	0417	0418	
Speed Limit	55		
Number of Lanes	3	4	3
Med. Type	Positive		
Med. Width	VAR		26
Pavement	36	48	36
Shoulder	12	10	12
Traffic Volume			
Traffic Sta. ID			
Structure No.	0418163 0418162	0418150 4500008 0418151	0418154 0418153 0418155 0418156 0418156 0418156 0418157 0418158
Enlarged Views	See Enlarged View #43		

Begin I-676 MP=0.00

SRI = 00000676__

Date last inventoried: May 2018

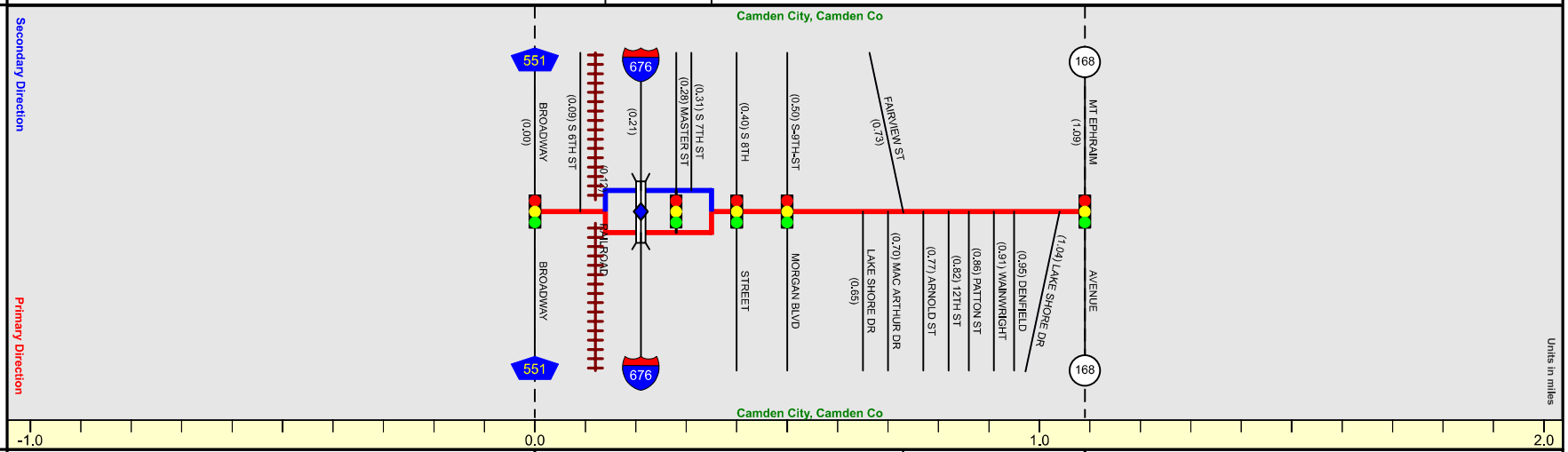
Page Created: June, 2020

MORGAN BLVD (West to East)

Mile Posts: 0.000 - 1.090



Pavement		24	
Shoulder			
Number of Lanes		2	
Speed Limit		25	
Street Name		Morgan Boulevard	



Street Name		Morgan Boulevard		Fairview Street	
Jurisdiction		Municipal			
Functional Class		Urban Principal Arterial	Urban Minor Arterial		
Federal Aid - NHS Sy		NHS	STP		
Control Section	Begin Morgan Blvd MP=0.00				End Morgan Blvd MP=1.09
Speed Limit		25			
Number of Lanes		2			
Med. Type		None	Positive	None	
Med. Width			4		
Pavement		60	24	48	28
Shoulder					
Traffic Volume					
Traffic Sta. ID					
Structure No.			0418155		
Enlarged Views					

SRI = 04081537__

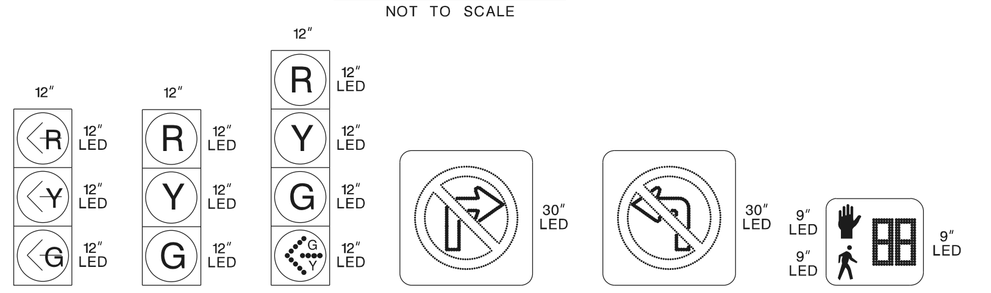
Date last inventoried: May 2014

Page Created: June, 2020

STATE	FEDERAL PROJECT NO.
N.J.	*

SIGNAL LEGEND

NOT TO SCALE



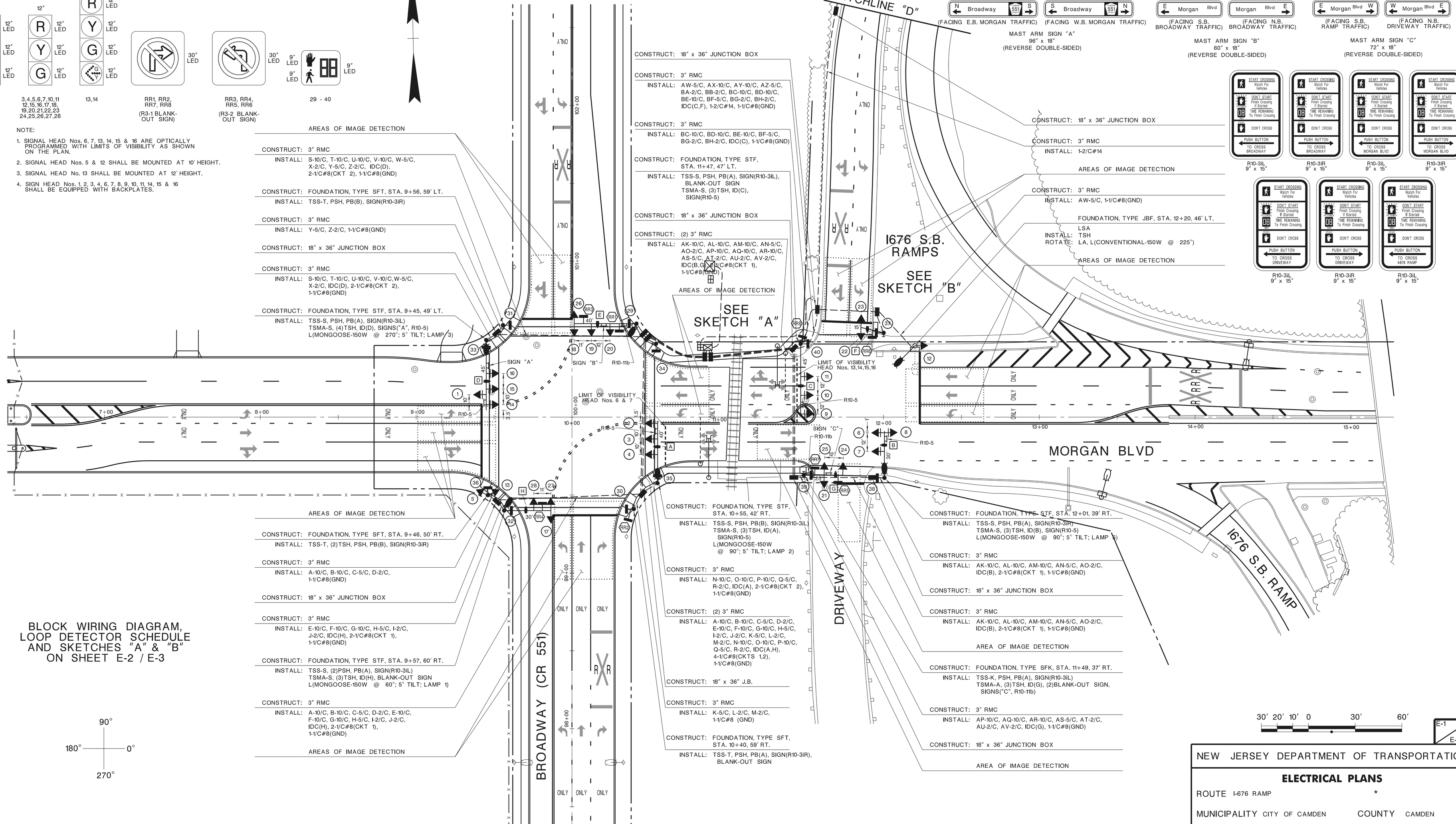
1,2,8,9 | 3,4,5,6,7,10,11 12,15,16,17,18, 19,20,21,22,23 24,25,26,27,28 | 13,14 | RR1, RR2, RR7, RR8 (R3-1 BLANK-OUT SIGN) | RR3, RR4, RR5, RR6 (R3-2 BLANK-OUT SIGN) | 29 - 40

NOTE:

1. SIGNAL HEAD Nos. 6, 7, 13, 14, 15 & 16 ARE OPTICALLY PROGRAMMED WITH LIMITS OF VISIBILITY AS SHOWN ON THE PLAN.
2. SIGNAL HEAD Nos. 5 & 12 SHALL BE MOUNTED AT 10' HEIGHT.
3. SIGNAL HEAD No. 13 SHALL BE MOUNTED AT 12' HEIGHT.
4. SIGN HEAD Nos. 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 14, 15 & 16 SHALL BE EQUIPPED WITH BACKPLATES.

SIGN LEGEND

NOT TO SCALE



CONSTRUCT: 18" x 36" JUNCTION BOX

CONSTRUCT: 3" RMC
INSTALL: AW-5/C, AX-10/C, AY-10/C, AZ-5/C, BA-2/C, BB-2/C, BC-10/C, BD-10/C, BE-10/C, BF-5/C, BG-2/C, BH-2/C, IDC(C,F), 1-2/C#14, 1-1/C#8(GND)

CONSTRUCT: 3" RMC
INSTALL: BC-10/C, BD-10/C, BE-10/C, BF-5/C, BG-2/C, BH-2/C, IDC(C), 1-1/C#8(GND)

CONSTRUCT: FOUNDATION, TYPE STF, STA. 11+47, 47' LT.
INSTALL: TSS-S, PSH, PB(A), SIGN(R10-3IL), BLANK-OUT SIGN TSMA-S, (3)TSH, ID(C), SIGN(R10-5)

CONSTRUCT: 18" x 36" JUNCTION BOX

CONSTRUCT: (2) 3" RMC
INSTALL: AK-10/C, AL-10/C, AM-10/C, AN-5/C, AO-2/C, AP-10/C, AQ-10/C, AR-10/C, AS-5/C, AT-2/C, AU-2/C, AV-2/C, IDC(B,G,H,L)C#8(CKT 1), 1-1/C#8(GND)

AREAS OF IMAGE DETECTION

CONSTRUCT: 18" x 36" JUNCTION BOX

CONSTRUCT: 3" RMC
INSTALL: 1-2/C#14

AREAS OF IMAGE DETECTION

CONSTRUCT: 3" RMC
INSTALL: AW-5/C, 1-1/C#8(GND)

FOUNDATION, TYPE JBF, STA. 12+20, 46' LT.
LSA
INSTALL: TSH
ROTATE: LA, L(CONVENTIONAL-150W @ 225°)

AREAS OF IMAGE DETECTION

R10-3IL 9" x 15" | R10-3IR 9" x 15" | R10-3IL 9" x 15" | R10-3IR 9" x 15"

R10-3IL 9" x 15" | R10-3IR 9" x 15" | R10-3IL 9" x 15"

AREAS OF IMAGE DETECTION

CONSTRUCT: FOUNDATION, TYPE SFT, STA. 9+56, 59' LT.
INSTALL: TSS-T, PSH, PB(B), SIGN(R10-3IR)

CONSTRUCT: 3" RMC
INSTALL: Y-5/C, Z-2/C, 1-1/C#8(GND)

CONSTRUCT: 18" x 36" JUNCTION BOX

CONSTRUCT: 3" RMC
INSTALL: S-10/C, T-10/C, U-10/C, V-10/C,W-5/C, X-2/C, IDC(D), 2-1/C#8(CKT 2), 1-1/C#8(GND)

CONSTRUCT: FOUNDATION, TYPE STF, STA. 9+45, 49' LT.
INSTALL: TSS-S, PSH, PB(A), SIGN(R10-3IL) TSMA-S, (4)TSH, ID(D), SIGNS("A", R10-5) L(MONGOOSE-150W @ 270°; 5° TILT; LAMP 3)

AREAS OF IMAGE DETECTION

CONSTRUCT: FOUNDATION, TYPE SFT, STA. 9+46, 50' RT.
INSTALL: TSS-T, (2)TSH, PSH, PB(B), SIGN(R10-3IR)

CONSTRUCT: 3" RMC
INSTALL: A-10/C, B-10/C, C-5/C, D-2/C, 1-1/C#8(GND)

CONSTRUCT: 18" x 36" JUNCTION BOX

CONSTRUCT: 3" RMC
INSTALL: E-10/C, F-10/C, G-10/C, H-5/C, I-2/C, J-2/C, IDC(H), 2-1/C#8(CKT 1), 1-1/C#8(GND)

CONSTRUCT: FOUNDATION, TYPE STF, STA. 9+57, 60' RT.
INSTALL: TSS-S, (2)PSH, PB(A), SIGN(R10-3IL) TSMA-S, (3)TSH, ID(H), BLANK-OUT SIGN L(MONGOOSE-150W @ 60°; 5° TILT; LAMP 1)

CONSTRUCT: 3" RMC
INSTALL: A-10/C, B-10/C, C-5/C, D-2/C, E-10/C, F-10/C, G-10/C, H-5/C, I-2/C, J-2/C, IDC(H), 2-1/C#8(CKT 1), 1-1/C#8(GND)

AREAS OF IMAGE DETECTION

CONSTRUCT: FOUNDATION, TYPE STF, STA. 10+55, 42' RT.
INSTALL: TSS-S, PSH, PB(B), SIGN(R10-3IL) TSMA-S, (3)TSH, ID(A), SIGN(R10-5) L(MONGOOSE-150W @ 90°; 5° TILT; LAMP 2)

CONSTRUCT: 3" RMC
INSTALL: N-10/C, O-10/C, P-10/C, Q-5/C, R-2/C, IDC(A), 2-1/C#8(CKT 2), 1-1/C#8(GND)

CONSTRUCT: (2) 3" RMC
INSTALL: A-10/C, B-10/C, C-5/C, D-2/C, E-10/C, F-10/C, G-10/C, H-5/C, I-2/C, J-2/C, K-5/C, L-2/C, M-2/C, N-10/C, O-10/C, P-10/C, Q-5/C, R-2/C, IDC(A,H), 4-1/C#8(CKTS 1,2), 1-1/C#8(GND)

CONSTRUCT: 18" x 36" J.B.

CONSTRUCT: 3" RMC
INSTALL: K-5/C, L-2/C, M-2/C, 1-1/C#8 (GND)

CONSTRUCT: FOUNDATION, TYPE SFT, STA. 10+40, 59' RT.
INSTALL: TSS-T, PSH, PB(A), SIGN(R10-3IR), BLANK-OUT SIGN

CONSTRUCT: FOUNDATION, TYPE STF, STA. 12+01, 39' RT.
INSTALL: TSS-S, PSH, PB(A), SIGN(R10-3IR) TSMA-S, (3)TSH, ID(B), SIGN(R10-5) L(MONGOOSE-150W @ 90°; 5° TILT; LAMP 1)

CONSTRUCT: 3" RMC
INSTALL: AK-10/C, AL-10/C, AM-10/C, AN-5/C, AO-2/C, IDC(B), 2-1/C#8(CKT 1), 1-1/C#8(GND)

CONSTRUCT: 18" x 36" JUNCTION BOX

CONSTRUCT: 3" RMC
INSTALL: AK-10/C, AL-10/C, AM-10/C, AN-5/C, AO-2/C, IDC(B), 2-1/C#8(CKT 1), 1-1/C#8(GND)

AREA OF IMAGE DETECTION

CONSTRUCT: FOUNDATION, TYPE SFK, STA. 11+49, 37' RT.
INSTALL: TSS-K, PSH, PB(A), SIGN(R10-3IL) TSMA-A, (3)TSH, ID(G), (2)BLANK-OUT SIGN, SIGNS("C", R10-11b)

CONSTRUCT: 3" RMC
INSTALL: AP-10/C, AQ-10/C, AR-10/C, AS-5/C, AT-2/C, AU-2/C, AV-2/C, IDC(G), 1-1/C#8(GND)

CONSTRUCT: 18" x 36" JUNCTION BOX

AREA OF IMAGE DETECTION

BLOCK WIRING DIAGRAM, LOOP DETECTOR SCHEDULE AND SKETCHES "A" & "B" ON SHEET E-2 / E-3

30' 20' 10' 0 30' 60'

E-1 / E-3

NEW JERSEY DEPARTMENT OF TRANSPORTATION

ELECTRICAL PLANS

ROUTE I-676 RAMP *

MUNICIPALITY CITY OF CAMDEN COUNTY CAMDEN

BROADWAY (CR 551) / I-676 RAMP & MORGAN BLVD

Shropshire Associates LLC
220 White Horse Pike, Suite 203, Atco, NJ 08004
P: 609.768.9696 F: 609.774.9944 www.sallc.org

RANDAL C. BARRANGER
New Jersey Professional Engineer License No. 48333
24 JUN 16
DATE

CONTROL SECTION NO. *

DATE	CHECKED	BY	REVISION DESCRIPTION

REFERENCE

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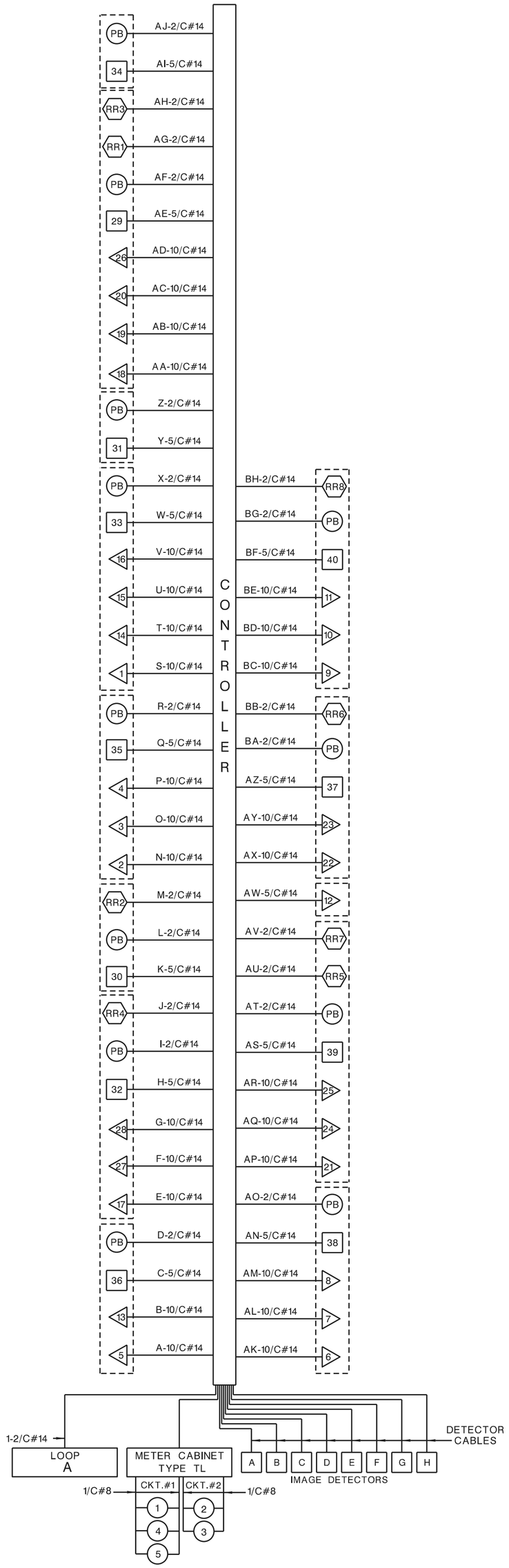
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STATE	FEDERAL PROJECT NO.
N.J.	*

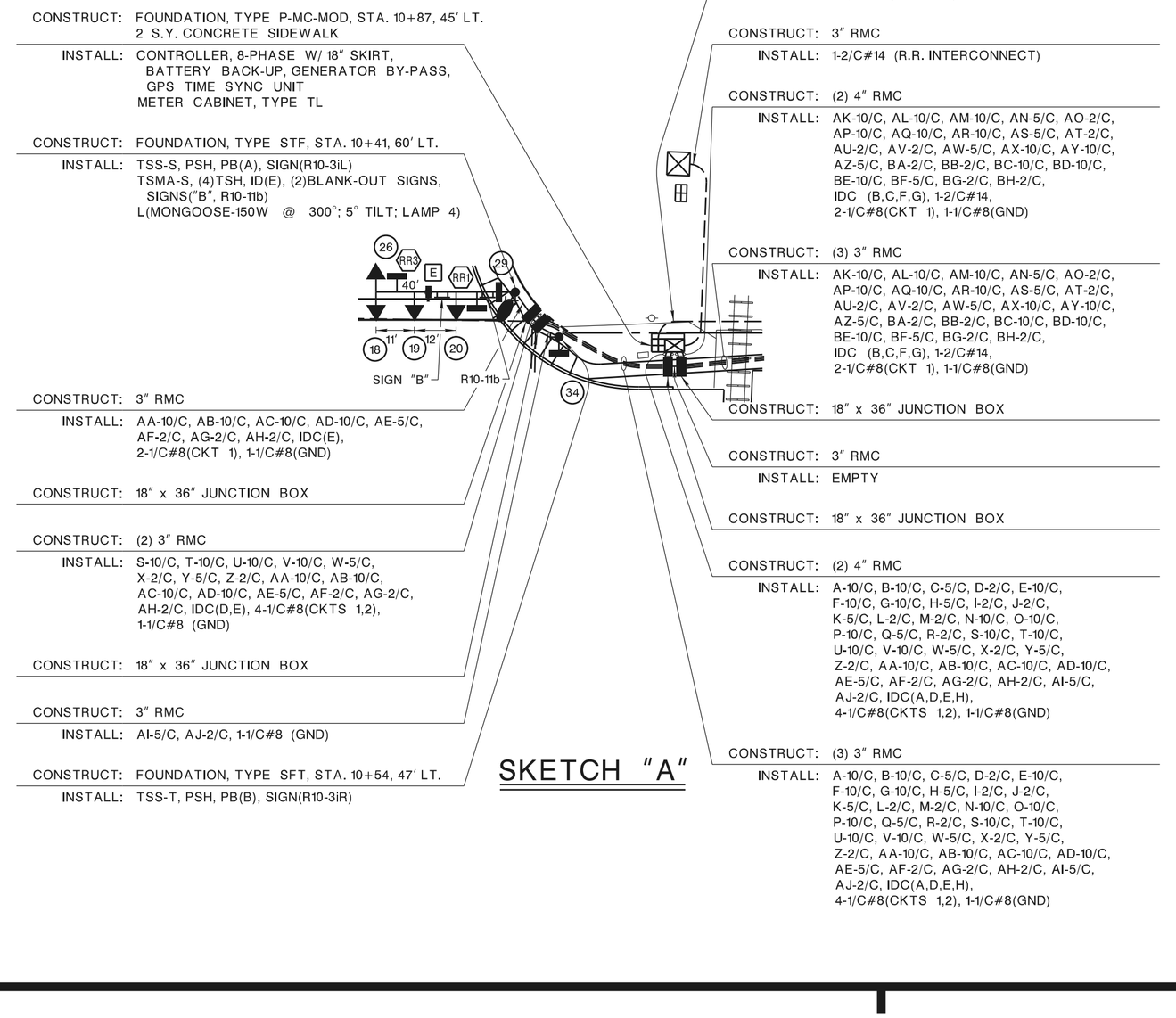
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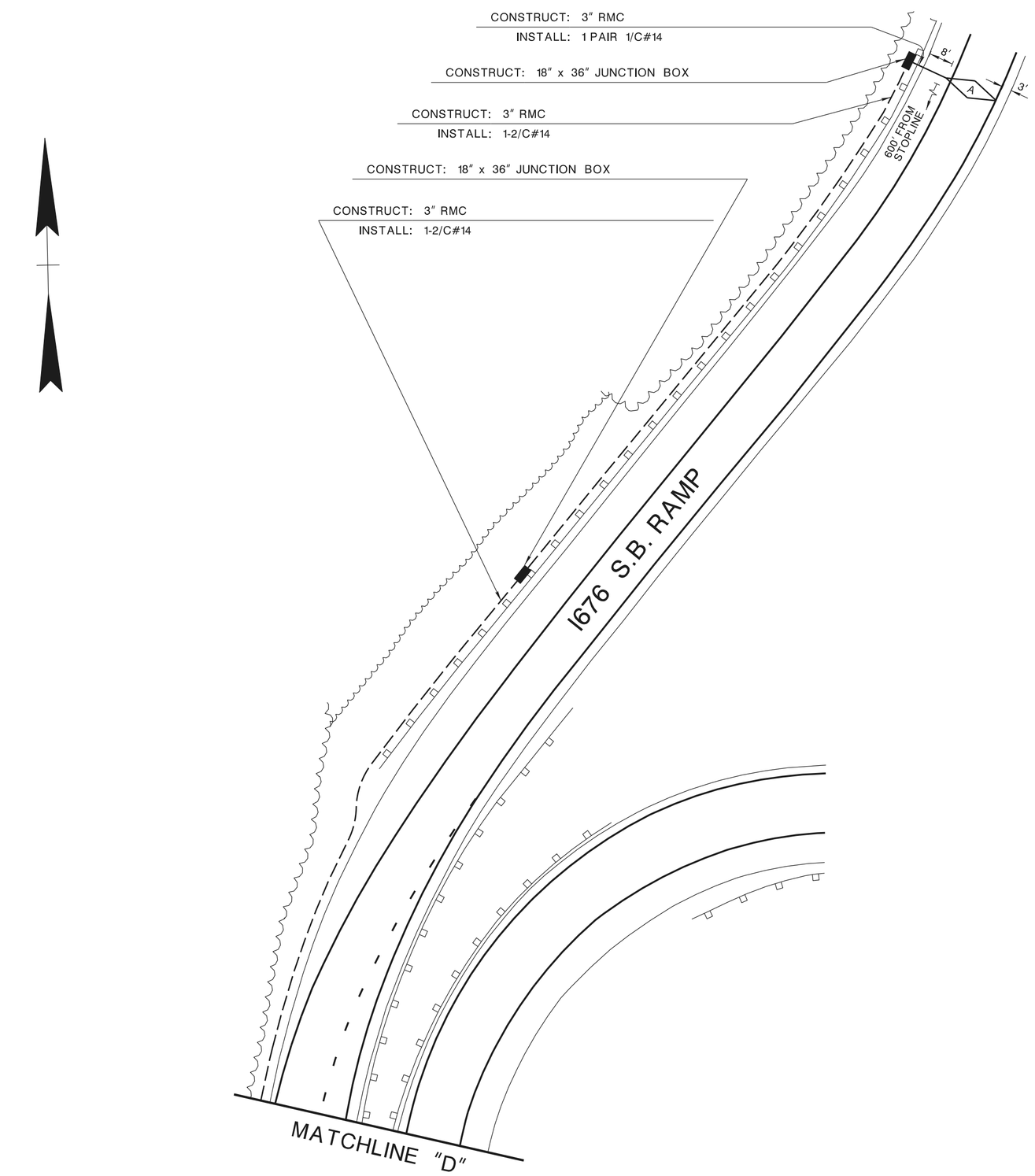


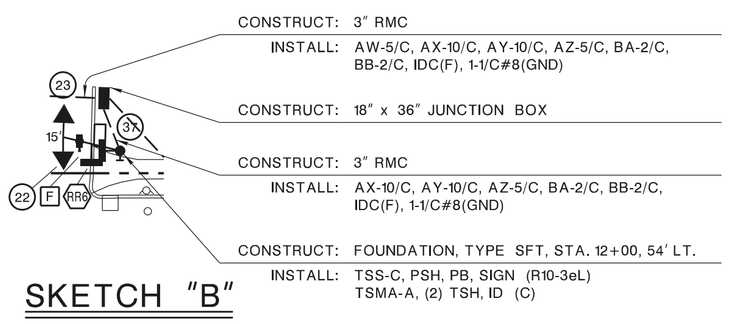
ITEM NUMBER	TO BE CONSTRUCTED	CONTRACT QUANTITY
701015P	2″ RIGID METALLIC CONDUIT	50 LF
701021P	3″ RIGID METALLIC CONDUIT	1450 LF
701024P	4″ RIGID METALLIC CONDUIT	10 LF
701102M	18″ x 36″ JUNCTION BOX	12 UNITS
701123M	FOUNDATION, TYPE SFT	5 UNITS
701132M	FOUNDATION, TYPE P-MC(MODIFIED)	1 UNIT
701138M	FOUNDATION, TYPE STF	6 UNITS
701144M	FOUNDATION, TYPE SFK	1 UNIT
701171M	METER CABINET, TYPE TL	1 UNIT
701192P	GROUND WIRE, NO. 8 AWG	850 LF
701201P	MULTIPLE LIGHTING WIRE, NO. 8 AWG	1550 LF
701213P	SERVICE WIRE, NO. 6 AWG	150 LF
702009M	CONTROLLER, 8 PHASE	1 UNIT
702012M	TRAFFIC SIGNAL STANDARD, ALUMINUM	6 UNITS
702015M	TRAFFIC SIGNAL STANDARD, STEEL	6 UNITS
702021M	TRAFFIC SIGNAL MAST ARM, ALUMINUM	2 UNITS
702024M	TRAFFIC SIGNAL MAST ARM, STEEL	6 UNITS
702027P	TRAFFIC SIGNAL CABLE, 2 CONDUCTOR	3100 LF
702030P	TRAFFIC SIGNAL CABLE, 5 CONDUCTOR	2150 LF
702033P	TRAFFIC SIGNAL CABLE, 10 CONDUCTOR	4500 LF
702036M	TRAFFIC SIGNAL HEAD	28 UNITS
702039M	PEDESTRIAN SIGNAL HEAD	12 UNITS
702042M	PUSH BUTTON	12 UNITS
702045M	IMAGE DETECTOR	8 UNITS
702048M	LOOP DETECTOR	45 LF
702051P	LOOP DETECTOR CABLE	725 LF
702060M	CONTROLLER TURN-ON	1 UNIT
702091M	BLANK-OUT SIGN	6 UNITS

LOOP DETECTOR SCHEDULE

DETECTOR NO.	DETECTOR CHANNEL	LOOP	MODE	SIZE	NO. OF TURNS	mH
1	1	A	PRESENCE	6′x18′		







30′ 20′ 10′ 0 30′ 60′

E-2 / E-3

NEW JERSEY DEPARTMENT OF TRANSPORTATION

ELECTRICAL PLANS

ROUTE I-676 RAMP *

MUNICIPALITY CITY OF CAMDEN COUNTY CAMDEN

BROADWAY (CR 551) / I-676 RAMP & MORGAN BLVD

Shropshire Associates LLC
2121 White Horse Pike, Suite 203, Atco, NJ 08004
P: 609.714.9944 F: 609.714.9944 www.sallc.org

RANDAL C. BARRANGER
New Jersey Professional Engineer License No. 48388
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STATE	FEDERAL PROJECT NO.
N.J.	*

TRAFFIC SIGNAL TIMING AND OPERATION
BROADWAY (C.R. 551) / MORGAN BOULEVARD
CITY OF CAMDEN, CAMDEN COUNTY

120-SECOND VARIABLE CYCLE

NORMAL OPERATION

	PHASE	SIGNAL INDICATIONS 1,2	3-5	6,7	8,9	10-12	13,14	15,16	17-20	21,22	23-25	26-28	29-32	33-36	37-40	RR1, RR2	RR3, RR4	RR5, RR6	RR7, RR8	RR SIGNALS	RR GATES	TIME (SEC)
A.	BROADWAY (C.R. 551) R.O.W.	<R-	R	G	<R-	R	R	R	G	R	R	G	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	7 - 24
	CHANGE (OUTER)	<R-	R	G	<R-	R	R	R	Y	R	R	Y	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	CLEARANCE	<R-	R	G	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	INSIDE CLEARANCE	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5
	CHANGE (INNER)	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	CLEARANCE	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
B.	I-676 RAMP/DVWY R.O.W.	<R-	R	R	<R-	R	G/<G-	G	R	G	G	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	7 - 15
	CHANGE (OUTER)	<R-	R	R	<R-	R	G/<G-	G	R	Y	Y	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	CLEARANCE	<R-	R	R	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	INSIDE CLEARANCE	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5
	CHANGE (INNER)	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	CHANGE (INNER)	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
C.	MORGAN BLVD. R.O.W.	<R-	G	G	<R-	G	G	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	7 - 14
	CHANGE (OUTER)	<R-	Y	G	<R-	Y	G	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	CLEARANCE	<R-	R	G	<R-	R	G	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	INSIDE CLEARANCE	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5
	CHANGE (INNER)	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	CLEARANCE	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
D.	MORGAN BLVD. LAG LEFTS	<G-	R	R	<G-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5 - 7
	CHANGE (OUTER)	<Y-	R	R	<Y-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	CLEARANCE	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	INSIDE CLEARANCE	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5
	CHANGE (INNER)	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	CHANGE (INNER)	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
PRE-EMPTION	END OF RAILROAD PRE-PULSE	<R-	R	G	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	-
	TRACK CLEARANCE	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	UP	3
	TRACK CLEARANCE - BREAKAWAY	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	6
	CHANGE	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	3
	RED CLEARANCE	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	2
	HOLD	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	HORIZONTAL	-
	RETURN - GATE ASCENDING	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	ASCENDING	10
	CHANGE	<R-	R	R	<R-	R	R	R	Y	G	G	Y	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	3
	CLEARANCE	<R-	R	R	<R-	R	R	R	R	G	G	R	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	2
	RETURN TO NORMAL (PHASE B)	<R-	R	R	<R-	R	R	R	R	G	G	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	-
	EMERGENCY FLASH	<R-	R	Y	<R-	R	Y	Y	R	R	R	R	DARK	DARK	DARK	NRT	NLT	NLT	NRT	OFF	UP	-

WITH PEDESTRIAN ACTUATION

	PHASE	SIGNAL INDICATIONS 1,2	3-5	6,7	8,9	10-12	13,14	15,16	17-20	21,22	23-25	26-28	29-32	33-36	37-40	RR1, RR2	RR3, RR4	RR5, RR6	RR7, RR8	RR SIGNALS	RR GATES	TIME (SEC)
A.	BROADWAY (C.R. 551) R.O.W.	<R-	R	G	<R-	R	R	R	G	R	R	G	DW	W	W	OFF	OFF	OFF	OFF	OFF	UP	7
	PEDESTRIAN CLEARANCE	<R-	R	G	<R-	R	R	R	G	R	R	G	DW	FDW	FDW	OFF	OFF	OFF	OFF	OFF	UP	25
	CHANGE (OUTER)	<R-	R	G	<R-	R	R	R	Y	R	R	Y	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	CLEARANCE	<R-	R	G	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	INSIDE CLEARANCE	<R-	R	G	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5
	CHANGE (INNER)	<R-	R	Y	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	CLEARANCE	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
B.	I-676 RAMP/DVWY R.O.W.	<R-	R	R	<R-	R	G/<G-	G	R	G	G	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	6
	CHANGE (OUTER)	<R-	R	R	<R-	R	G/<G-	G	R	Y	Y	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	CLEARANCE	<R-	R	R	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	INSIDE CLEARANCE	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5
	CHANGE (INNER)	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	CHANGE (INNER)	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
C.	MORGAN BLVD. R.O.W.	<R-	G	G	<R-	G	G	G	R	R	R	R	W	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	7
	PEDESTRIAN CLEARANCE	<R-	G	G	<R-	G	G	G	R	R	R	R	FDW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	20
	CHANGE (OUTER)	<R-	Y	G	<R-	Y	G	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	CLEARANCE	<R-	R	G	<R-	R	G	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	INSIDE CLEARANCE	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5
	CHANGE (INNER)	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	CLEARANCE	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
D.	MORGAN BLVD. LAG LEFTS	<G-	R	R	<G-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5
	CHANGE (OUTER)	<Y-	R	R	<Y-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	CLEARANCE	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	INSIDE CLEARANCE	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5
	CHANGE (INNER)	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	CHANGE (INNER)	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2

RAILROAD PRE-EMPTION OPERATION

	PHASE	SIGNAL INDICATIONS 1,2	3-5	6,7	8,9	10-12	13,14	15,16	17-20	21,22	23-25	26-28	29-32	33-36	37-40	RR1, RR2	RR3, RR4	RR5, RR6	RR7, RR8	RR SIGNALS	RR GATES	TIME (SEC)
ϕA TO PRE-EMPT	BROADWAY (C.R. 551) R.O.W.	<R-	R	G	<R-	R	R	R	G	R	R	G	DW	D/W	D/W	OFF	OFF	OFF	OFF	OFF	UP	-
	R.R. PRE-PULSE PEDESTRIAN	<R-	R	G	<R-	R	R	R	G	R	R	G	DW	F/DW	F/DW	OFF	OFF	OFF	OFF	OFF	UP	4
	R.R PRE-PULSE CHANGE (OUTER)	<R-	R	G	<R-	R	R	R	Y	R	R	Y	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	R.R. PRE-PULSE CLEARANCE	<R-	R	G	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	TRACK CLEARANCE	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	UP	3
	TRACK CLEARANCE - BREAKAWAY	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	6
	CHANGE	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	3
	RED CLEARANCE	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	2
	HOLD	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	HORIZONTAL	-
	RETURN - GATE ASCENDING	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	ASCENDING	10
	CHANGE	<R-	R	R	<R-	R	R	R	Y	G	G	Y	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	3
	CLEARANCE	<R-	R	R	<R-	R	R	R	R	G	G	R	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	2
	RETURN TO NORMAL (PHASE B)	<R-	R	R	<R-	R	R	R	R	G	G	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	-
ϕB TO PRE-EMPT	I-676 RAMP/DVWY R.O.W.	<R-	R	R	<R-	R	G/<G-	G	R	G	G	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	-
	R.R. PRE-PULSE EXTENSION	<R-	R	R	<R-	R	G/<G-	G	R	G	G	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	4
	R.R PRE-PULSE CHANGE (OUTER)	<R-	R	R	<R-	R	G/<G-	G	R	Y	Y	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	R.R. PRE-PULSE CLEARANCE	<R-	R	R	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	TRACK CLEARANCE	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	UP	3
	TRACK CLEARANCE - BREAKAWAY	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	6
	CHANGE	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	3
	RED CLEARANCE	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	2
	HOLD	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	HORIZONTAL	-
	RETURN - GATE ASCENDING	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	ASCENDING	10
	CHANGE	<R-	R	R	<R-	R	R	R	Y	G	G	Y	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	3
	CLEARANCE	<R-	R	R	<R-	R	R	R	R	G	G	R	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	2
	RETURN TO NORMAL (PHASE B)	<R-	R	R	<R-	R	R	R	R	G	G	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	-
ϕC TO PRE-EMPT	MORGAN BLVD. R.O.W.	<R-	G	G	<R-	G	G	G	R	R	R	R	D/W	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	-
	R.R. PRE-PULSE PEDESTRIAN	<R-	G	G	<R-	G	G	G	R	R	R	R	F/DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	4
	R.R PRE-PULSE CHANGE (OUTER)	<R-	Y	G	<R-	Y	G	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	R.R. PRE-PULSE CLEARANCE	<R-	R	G	<R-	R	G	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	TRACK CLEARANCE	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	UP	3
	TRACK CLEARANCE - BREAKAWAY	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	6
	CHANGE	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	3
	RED CLEARANCE	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	2
	HOLD	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	HORIZONTAL	-
	RETURN - GATE ASCENDING	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	ASCENDING	10
	CHANGE	<R-	R	R	<R-	R	R	R	Y	G	G	Y	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	3
	CLEARANCE	<R-	R	R	<R-	R	R	R	R	G	G	R	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	2
	RETURN TO NORMAL (PHASE B)	<R-	R	R	<R-	R	R	R	R	G	G	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	-
ϕD TO PRE-EMPT	MORGAN BLVD. LAG LEFTS	<G-	R	R	<G-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	-
	R.R. PRE-PULSE EXTENSION	<G-	R	R	<G-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	4
	R.R PRE-PULSE CHANGE (OUTER)	<Y-	R	R	<Y-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	R.R. PRE-PULSE CLEARANCE	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	TRACK CLEARANCE	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	UP	3
	TRACK CLEARANCE - BREAKAWAY	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	6
	CHANGE	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	3
	RED CLEARANCE	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	2
	HOLD	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	HORIZONTAL	-
	RETURN - GATE ASCENDING	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	ASCENDING	10
	CHANGE	<R-	R	R	<R-	R	R	R	Y	G	G	Y	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	3
	CLEARANCE	<R-	R	R	<R-	R	R	R	R	G	G	R	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	2
	RETURN TO NORMAL (PHASE B)	<R-	R	R	<R-	R	R	R	R	G	G	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	-

NOTES:

1. THE MEMORY CIRCUITS SHALL BE **OFF**.
2. THE VEHICLE INTERVAL SHALL BE SET AT 4-SECONDS.
3. THE MANUAL CONTROL SHALL BE DISCONNECTED.
4. WITH PEDESTRIAN PUSHBUTTON ACTUATION, THE CYCLE LENGTH WILL BE EXCEEDED.
5. A QUEUE DETECTOR PRE-EMPTION SHALL BE PROVIDED ON THE I-676 SOUTHBOUND RAMP. THE QUEUE DETECTION SHALL EMPLOY A 10-SECOND DELAY BEFORE ACCEPTING ACTUATION.
6. UPON ACTUATION OF THE QUEUE DETECTOR PRE-EMPTION, ALL MINIMUM GREEN, YELLOW CHANGE, RED CLEARANCE AND PEDESTRIAN CLEARANCE TIMES SHALL BE GUARANTEED FOLLOWED BY GREEN TIME TO PHASE "B" FOR THE DURATION OF THE ACTUATION PLUS 15-SECONDS.
7. THE MINIMUM QUEUE DETECTOR PRE-EMPTION RE-SERVICE TIME SHALL BE SET AT 4-MINUTES.
8. UPON COMPLETION OF THE QUEUE DETECTOR PRE-EMPTION, R.O.W. SHALL BE GIVEN TO MORGAN BOULEVARD AND NORMAL OPERATION SHALL RESUME.
9. RAILROAD PRE-EMPTION SUPERCEDES THE QUEUE PRE-EMPTION FOR THE I-676 SOUTHBOUND RAMP.
10. PHASE B SHALL HAVE A DYNAMIC MAX / MAX 3 OPTION INSTALLED WITH THE FOLLOWING PARAMETERS:
    a. THE NUMBER OF SUCCESSIVE MAX TERMINATIONS (MAX-OUTS) SHALL BE SET AT 2.
    b. THE INCREMENT ADJUSTMENT TIME OR MAX 3 ADJUST SHALL BE SET TO 10-SECONDS.
    c. THE DYNAMIC MAXIMUM GREEN LIMIT TIME OR MAX 3 LIMIT SHALL BE SET TO 45-SECONDS.
    d. THE NUMBER OF SUCCESSIVE GAP TERMINATIONS (GAP-OUTS) SHALL BE SET AT 2.
11. DURING TRANSITION INTO RAILROAD PRE-EMPTION CONTROL THE MINIMUM GREEN TIME SHALL BE SET AT 4-SECONDS, AND THE PEDESTRIAN CHANGE INTERVAL SHALL BE SET AT 4-SECONDS.
12. ALL RAILROAD EQUIPMENT AND HARDWARE (FLASHING RED LIGHT SIGNALS, AUTOMATIC GATES, MAST MOUNTED CROSSBUCKS AND ACCOMPANYING SIGNS) ARE OWNED, OPERATED AND MAINTAINED BY CONSOLIDATED RAIL CORPORATION (CONRAIL).

REFERENCE

REVISION DESCRIPTION	BY	CHECKED	DATE

date = . pen table = '

file = . ID = .

E-3 / E-3

NEW JERSEY DEPARTMENT OF TRANSPORTATION

ELECTRICAL PLANS

ROUTE I-676 RAMP *

MUNICIPALITY CITY OF CAMDEN COUNTY CAMDEN

BROADWAY (CR 551) / I-676 RAMP & MORGAN BLVD

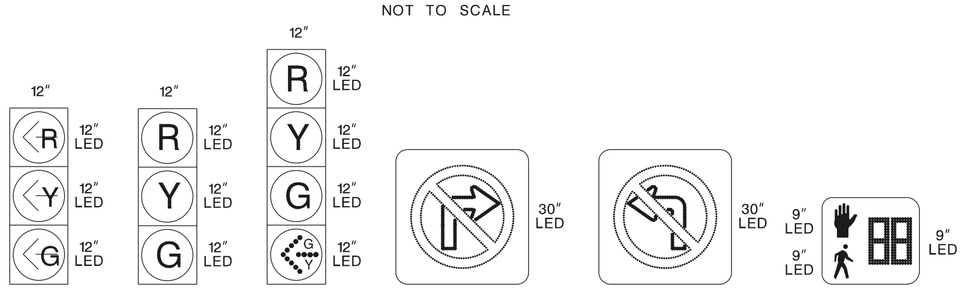
Shropshire Associates LLC
227 White Horse Pike, Suite 203, Atco, NJ 08004
O: 609.714.9944 F: 609.714.9944 www.ssllc.org
RANDAL C. BARRANGER
New Jersey Professional Engineer License No. 48383
24 JUN 16 DATE

CONTROL SECTION NO. *

STATE	FEDERAL PROJECT NO.
N.J.	*

SIGNAL LEGEND

NOT TO SCALE



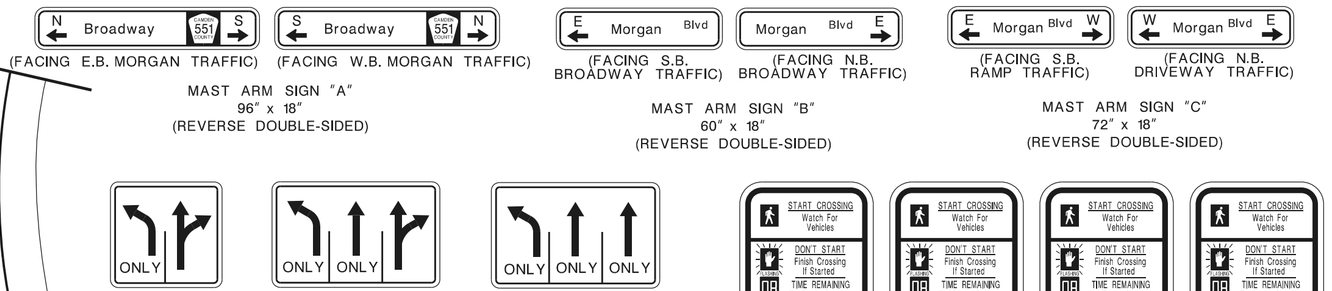
1,2,8,9 — 3,4,5,6,7,10,11,12,15,16,17,18,19,20,21,22,23,24,25,26,27,28 — 13,14 — RR1, RR2, RR7, RR8 (R3-1 BLANK-OUT SIGN) — RR3, RR4, RR5, RR6 (R3-2 BLANK-OUT SIGN) — 29 - 40

NOTE:

1. SIGNAL HEAD Nos. 6, 7, 13, 14, 15 & 16 ARE OPTICALLY PROGRAMMED WITH LIMITS OF VISIBILITY AS SHOWN ON THE PLAN.
2. SIGNAL HEAD Nos. 5 & 12 SHALL BE MOUNTED AT 10' HEIGHT.
3. SIGNAL HEAD No. 13 SHALL BE MOUNTED AT 12' HEIGHT.
4. SIGN HEAD Nos. 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 14, 15 & 16 SHALL BE EQUIPPED WITH BACKPLATES.

SIGN LEGEND

NOT TO SCALE



(FACING E.B. MORGAN TRAFFIC) (FACING W.B. MORGAN TRAFFIC)

MAST ARM SIGN "A"
96" x 18"
(REVERSE DOUBLE-SIDED)

(FACING S.B. BROADWAY TRAFFIC) (FACING N.B. BROADWAY TRAFFIC)

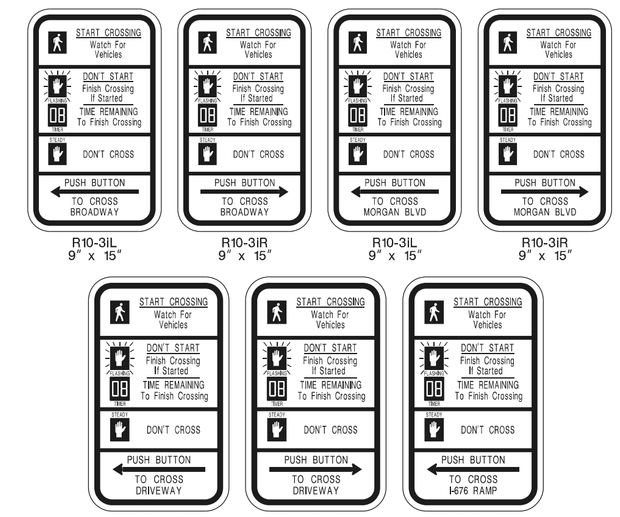
MAST ARM SIGN "B"
60" x 18"
(REVERSE DOUBLE-SIDED)

(FACING S.B. RAMP TRAFFIC) (FACING N.B. DRIVEWAY TRAFFIC)

MAST ARM SIGN "C"
72" x 18"
(REVERSE DOUBLE-SIDED)

R(NJ)3-8F 30" x 30" — R(NJ)3-8T 48" x 30" — R(NJ)3-8W 48" x 30"

R3-8b	ADVANCE INTERSECTION LANE CONTROL	48" x 30"
R5-1	DO NOT ENTER	30" x 30"
R5-1a	WRONG WAY	36" x 24"
R6-1(L/R)	ONE WAY (LEFT/RIGHT)	54" x 18"
R9-3	NO PEDESTRIAN CROSSING	18" x 18"
R9-3b(L/R)	USE CROSSWALK (LEFT/RIGHT)	18" x 12"
R10-5	LEFT ON GREEN ARROW ONLY	30" x 36"
R10-11a	NO TURN ON RED	30" x 36"
R10-11b	NO TURN ON RED	36" x 36"
W10-1	HIGHWAY-RAIL GRADE CROSSING	36" ϕ
W10-2(L/R)	HIGHWAY-RAIL GRADE CROSSING	36" x 36"
W10-4L	HIGHWAY-RAIL GRADE CROSSING	36" x 36"



R10-3iL 9" x 15" — R10-3iR 9" x 15"

30' 20' 10' 0 30' 60'

TSP-1 / TSP-2

NEW JERSEY DEPARTMENT OF TRANSPORTATION
BUREAU OF TRAFFIC ENGINEERING AND INVESTIGATIONS
TRAFFIC SIGNAL INSTALLATION

ROUTE BROADWAY (CR 551) / I-676 RAMP & MORGAN BLVD

MUNICIPALITY CITY OF CAMDEN COUNTY CAMDEN

DESIGN AUTHORIZED - BUREAU OF TRAFFIC SIGNAL & SAFETY ENGINEERING DATE

SUBMITTED

CHECKED

AUTHORIZED

DRAWN

CHECKED

SCALE: 1" = 30'

TS

REVISION DESCRIPTION	CADD	BY	C'K'D	DATE

pen table =

date =

REFERENCE

file =

ID =

STATE	FEDERAL PROJECT NO.
N.J.	*

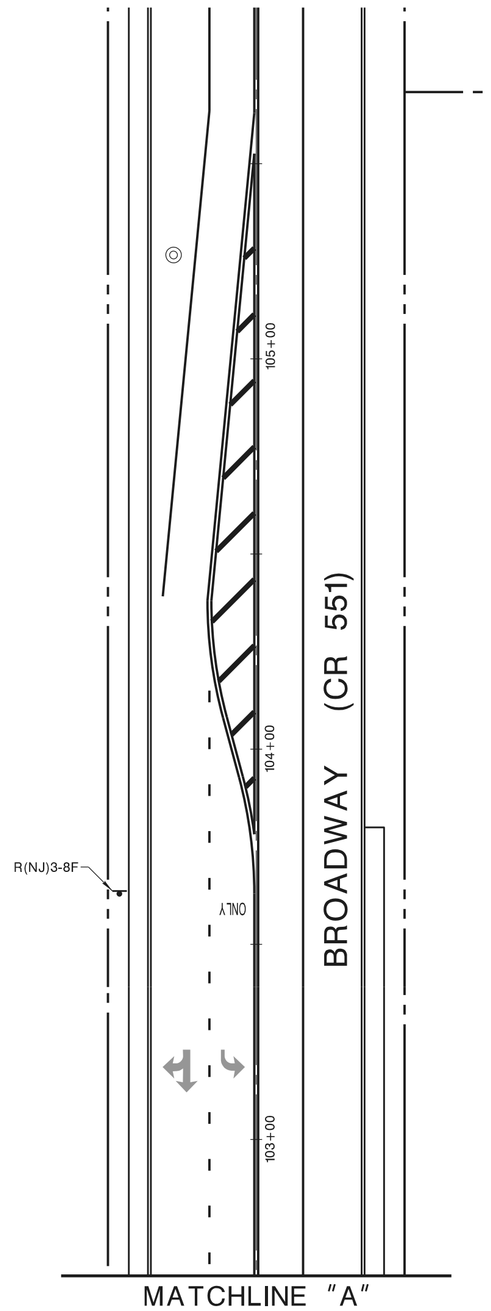
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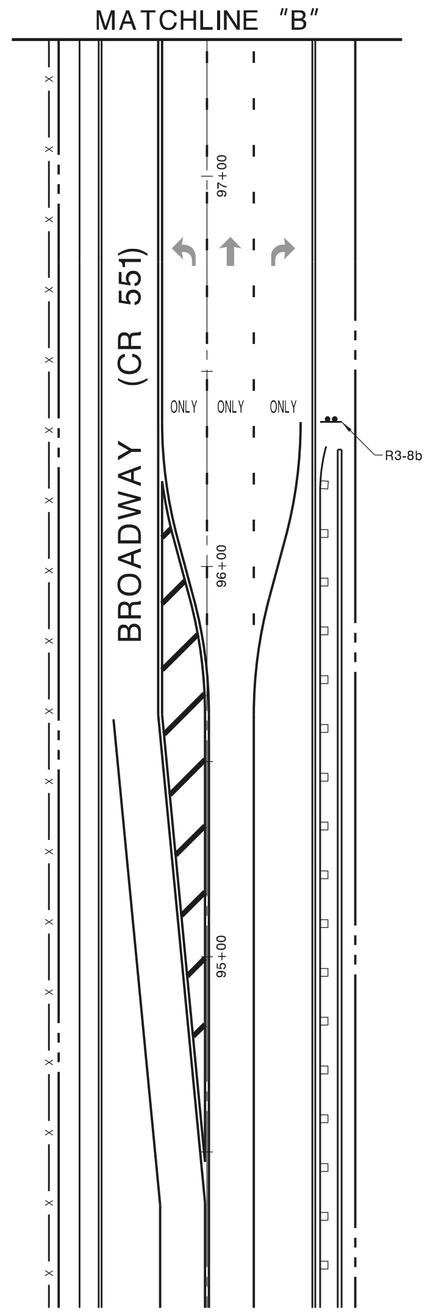
NOT TO SCALE

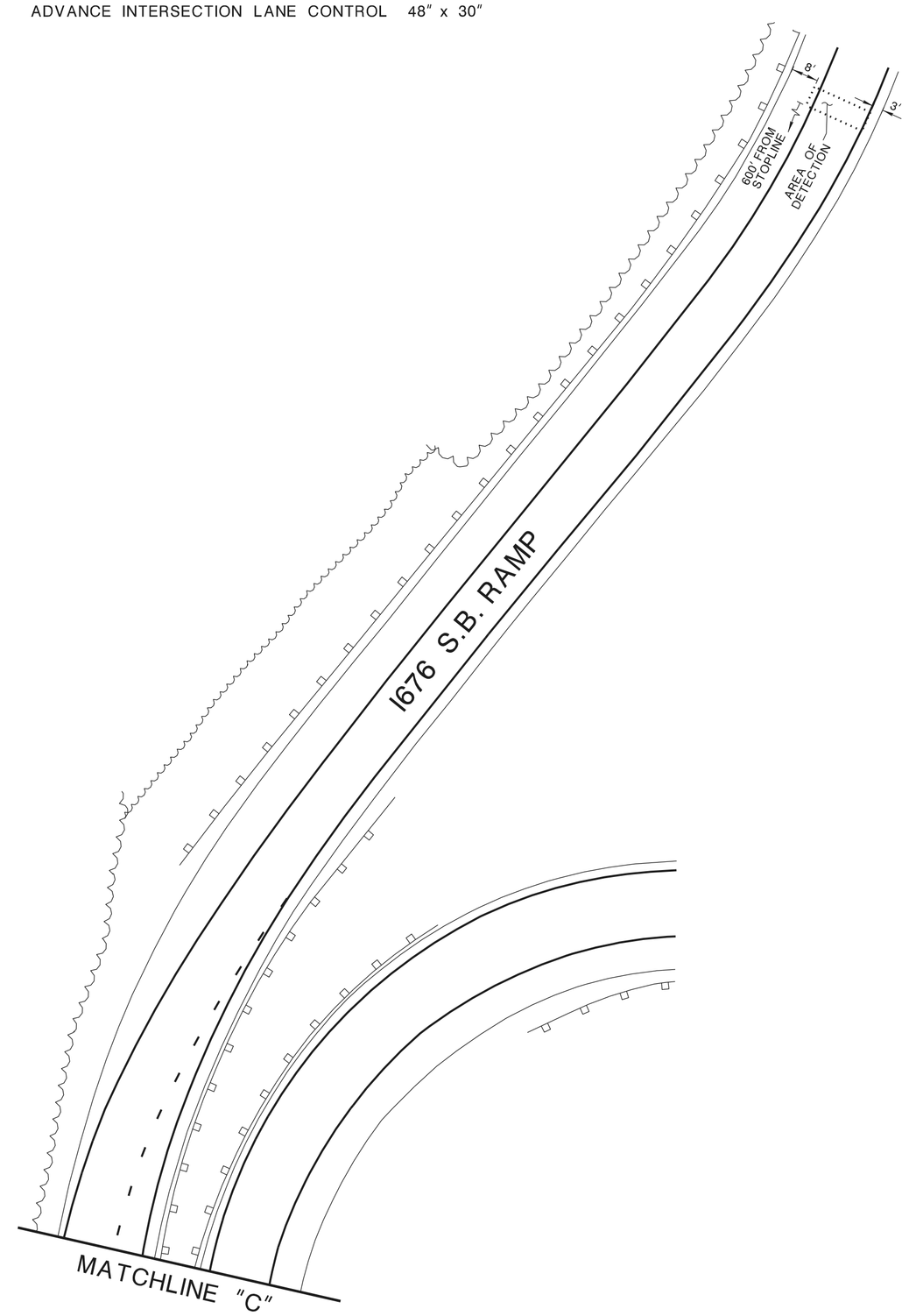


R(NJ)3-8F
30" x 30"

R3-8b ADVANCE INTERSECTION LANE CONTROL 48" x 30"







30' 20' 10' 0 30' 60'

TSP-2
TSP-2

NEW JERSEY DEPARTMENT OF TRANSPORTATION
BUREAU OF TRAFFIC ENGINEERING AND INVESTIGATIONS
TRAFFIC SIGNAL INSTALLATION

ROUTE BROADWAY (CR 551) / I-676 RAMP & MORGAN BLVD

MUNICIPALITY CITY OF CAMDEN COUNTY CAMDEN

DESIGN AUTHORIZED - BUREAU OF TRAFFIC SIGNAL & SAFETY ENGINEERING DATE

SUBMITTED .....
CHECKED .....
AUTHORIZED .....

DRAWN .....
CHECKED .....

SCALE: 1" = 30'

TS

REVISION DESCRIPTION	CADD	BY	C'K'D	DATE

REFERENCE

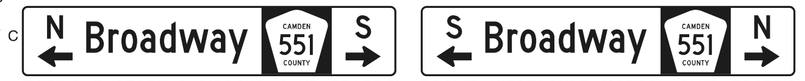
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STATE	FEDERAL PROJECT NO.
N.J.	*

SIGN LEGEND

NOT TO SCALE

LETTERS
Broadway: 8" C
N, S: 6" D



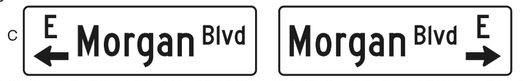
(FACING EASTBOUND MORGAN BLVD TRAFFIC)

(FACING WESTBOUND MORGAN BLVD TRAFFIC)

SIGN "A"
96" x 18"
(DOUBLE-SIDED)

COLORS:
LEGEND - WHITE (RETROREFLECTIVE)
BACKGROUND - GREEN (RETROREFLECTIVE)
SHIELD - YELLOW ON BLUE (RETROREFLECTIVE)

LETTERS
Morgan: 8" C
Blvd: 5" C
E: 6" D



(FACING S.B. BROADWAY TRAFFIC)

(FACING N.B. BROADWAY TRAFFIC)

SIGN "B"
60" x 18"
(DOUBLE-SIDED)

COLORS:
LEGEND - WHITE (RETROREFLECTIVE)
BACKGROUND - GREEN (RETROREFLECTIVE)

LETTERS
Morgan: 8" C
Blvd: 5" C
E, W: 6" D



(FACING S.B. RAMP TRAFFIC)



(FACING N.B. DRIVEWAY TRAFFIC)

SIGN "C"
72" x 18"
(DOUBLE-SIDED)

COLORS:
LEGEND - WHITE (RETROREFLECTIVE)
BACKGROUND - GREEN (RETROREFLECTIVE)



LETTERS 4" D

R3-8b
48" x 30"

COLORS:
LEGEND - BLACK
BACKGROUND - WHITE
(RETROREFLECTIVE)



LETTERS 4" C

R(NJ)3-8F
30" x 30"

COLORS:
LEGEND - BLACK
BACKGROUND - WHITE
(RETROREFLECTIVE)



LETTERS 4" C

R(NJ)3-8T
48" x 30"

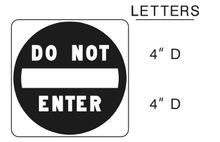
COLORS:
LEGEND - BLACK
BACKGROUND - WHITE
(RETROREFLECTIVE)



LETTERS 4" C

R(NJ)3-8W
48" x 30"

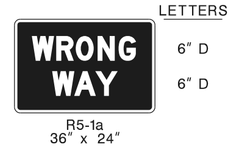
COLORS:
LEGEND - BLACK
BACKGROUND - WHITE
(RETROREFLECTIVE)



LETTERS 4" D 4" D

R5-1
30" x 30"

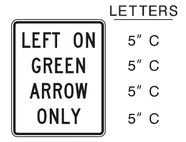
COLORS:
SYMBOL - RED
(RETROREFLECTIVE)
LEGEND & BACKGROUND -
WHITE (RETROREFLECTIVE)



LETTERS 6" D 6" D

R5-1a
36" x 24"

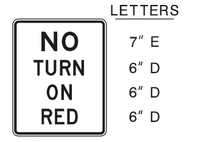
COLORS:
LEGEND - WHITE
(RETROREFLECTIVE)
BACKGROUND - RED
(RETROREFLECTIVE)



LETTERS 5" C 5" C 5" C 5" C

R10-5
30" x 36"

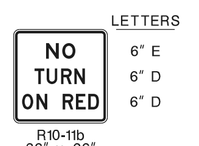
COLORS:
LEGEND - BLACK
BACKGROUND - WHITE
(RETROREFLECTIVE)



LETTERS 7" E 6" D 6" D 6" D

R10-11a
30" x 36"

COLORS:
LEGEND - BLACK
BACKGROUND - WHITE
(RETROREFLECTIVE)



LETTERS 6" E 6" D 6" D

R10-11b
36" x 36"

COLORS:
LEGEND - BLACK
BACKGROUND - WHITE
(RETROREFLECTIVE)



LETTERS 5" D

R6-1L
54" x 18"

COLORS:
LEGEND - BLACK
BACKGROUND - BLACK
ARROW - WHITE
(RETROREFLECTIVE)



LETTERS 5" D

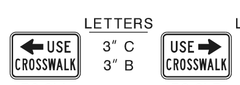
R6-1L
54" x 18"

COLORS:
LEGEND - BLACK
BACKGROUND - BLACK
ARROW - WHITE
(RETROREFLECTIVE)



R9-3a
18" x 18"

COLORS:
CIRCLE & DIAGONAL - RED
(RETROREFLECTIVE)
SYMBOL - BLACK
BACKGROUND - WHITE
(RETROREFLECTIVE)



LETTERS 3" C 3" B 3" C 3" B

R9-3bL
18" x 12"

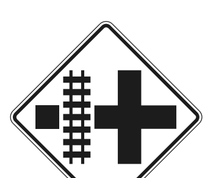
R9-3bR
18" x 12"

COLORS:
LEGEND - BLACK
BACKGROUND - WHITE
(RETROREFLECTIVE)



W10-1
36" R

COLORS:
LEGEND - BLACK
BACKGROUND - YELLOW
(RETROREFLECTIVE)



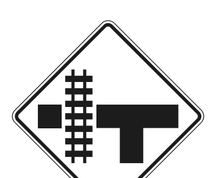
W10-2L
36" x 36"

COLORS:
LEGEND - BLACK
BACKGROUND - YELLOW
(RETROREFLECTIVE)



W10-2R
36" x 36"

COLORS:
LEGEND - BLACK
BACKGROUND - YELLOW
(RETROREFLECTIVE)



W10-4L
36" x 36"

COLORS:
LEGEND - BLACK
BACKGROUND - YELLOW
(RETROREFLECTIVE)



M6-1R (INTERSTATE)
21" x 15"

COLORS:
LEGEND - WHITE
(RETROREFLECTIVE)
BACKGROUND - BLUE
(RETROREFLECTIVE)



M6-2R (INTERSTATE)
21" x 15"

COLORS:
LEGEND - WHITE
(RETROREFLECTIVE)
BACKGROUND - BLUE
(RETROREFLECTIVE)



LETTERS 2" D 8" C 2" D

M1-6
24" x 24"

COLORS:
LEGEND - YELLOW
(RETROREFLECTIVE)
BACKGROUND - BLUE
(RETROREFLECTIVE)



LETTERS 6" C*

M3-3
24" x 12"

COLORS:
LEGEND - BLACK
BACKGROUND - WHITE
(RETROREFLECTIVE)
* FIRST LETTER 10%
LARGER



LETTERS 6" C*

M3-1
24" x 12"

COLORS:
LEGEND - BLACK
BACKGROUND - WHITE
(RETROREFLECTIVE)
* FIRST LETTER 10%
LARGER



LETTERS 2.5" E 10" C

M1-1
30" x 24"

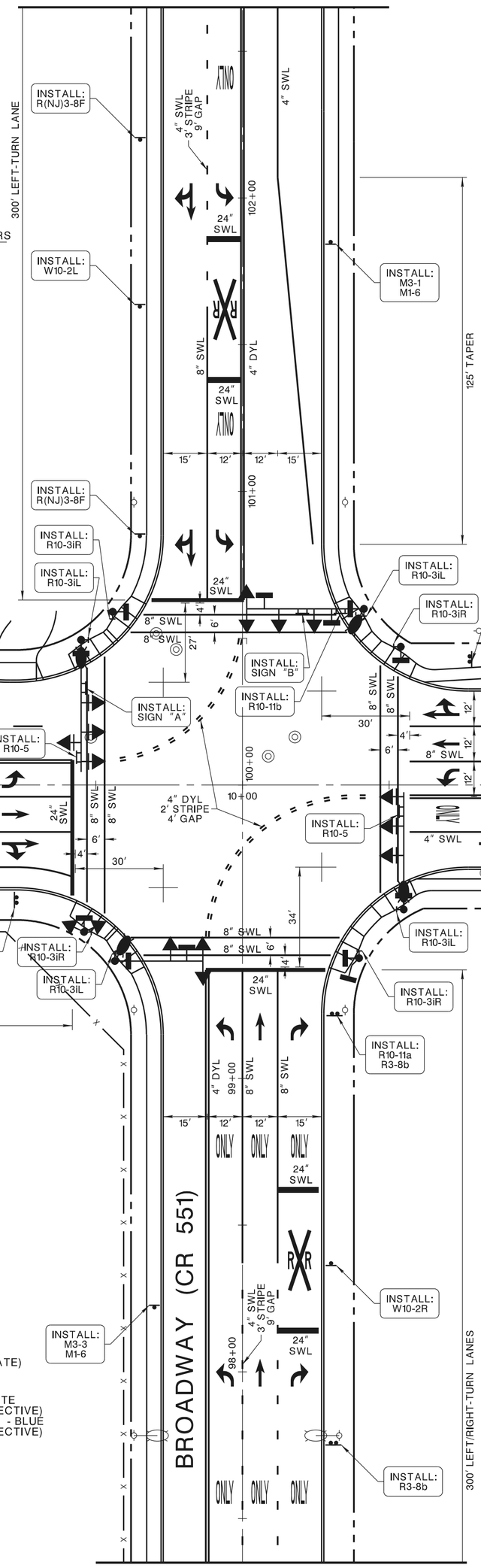
COLORS:
LEGEND - WHITE
(RETROREFLECTIVE)
TOP - RED
(RETROREFLECTIVE)
BOTTOM - BLUE
(RETROREFLECTIVE)

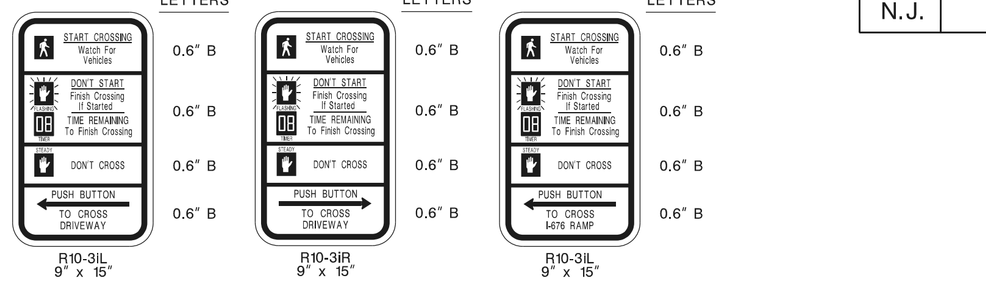


LETTERS 6" C*

M3-3 (INTERSTATE)
24" x 12"

COLORS:
LEGEND - WHITE
(RETROREFLECTIVE)
BACKGROUND - BLUE
(RETROREFLECTIVE)
* FIRST LETTER 10%
LARGER





R10-3iL
9" x 15"

COLORS:
LEGEND - BLACK
BACKGROUND - WHITE
(RETROREFLECTIVE)
08, HAND SYMBOL - ORANGE
(RETROREFLECTIVE)

R10-3iR
9" x 15"

COLORS:
LEGEND - BLACK
BACKGROUND - WHITE
(RETROREFLECTIVE)
08, HAND SYMBOL - ORANGE
(RETROREFLECTIVE)

R10-3iL
9" x 15"

COLORS:
LEGEND - BLACK
BACKGROUND - WHITE
(RETROREFLECTIVE)
08, HAND SYMBOL - ORANGE
(RETROREFLECTIVE)

R10-3iL
9" x 15"

COLORS:
LEGEND - BLACK
BACKGROUND - WHITE
(RETROREFLECTIVE)
08, HAND SYMBOL - ORANGE
(RETROREFLECTIVE)

R10-3iR
9" x 15"

COLORS:
LEGEND - BLACK
BACKGROUND - WHITE
(RETROREFLECTIVE)
08, HAND SYMBOL - ORANGE
(RETROREFLECTIVE)

R10-3iL
9" x 15"

COLORS:
LEGEND - BLACK
BACKGROUND - WHITE
(RETROREFLECTIVE)
08, HAND SYMBOL - ORANGE
(RETROREFLECTIVE)

R10-3iR
9" x 15"

COLORS:
LEGEND - BLACK
BACKGROUND - WHITE
(RETROREFLECTIVE)
08, HAND SYMBOL - ORANGE
(RETROREFLECTIVE)

GENERAL NOTES

1. ALL SIGNS, SIGNALS AND MARKINGS TO BE IN ACCORDANCE WITH THE CURRENT M.U.T.C.D.
2. EXISTING MARKINGS NOT IN CONFORMANCE WITH THIS PLAN ARE TO BE REMOVED BY THE GRINDING METHOD.
3. WITH THE INSTALLATION OR GRINDING OF THE PAVEMENT MARKINGS, RAISED PAVEMENT MARKINGS (RPM) MUST BE INSTALLED, REPLACED OR REMOVED, WHERE APPLICABLE, TO COINCIDE WITH THE NEW PAVEMENT MARKINGS. THE RPM'S MUST BE INSTALLED IN ACCORDANCE WITH THE CURRENT NJDOT STANDARD ROADWAY CONSTRUCTION/TRAFFIC CONTROL/BRIDGE CONSTRUCTION DETAILS.

STRIPING LEGEND

SWL - SOLID WHITE LINE
BWL - BROKEN WHITE LINE
SYL - SOLID YELLOW LINE
DYL - DOUBLE YELLOW LINE

30' 20' 10' 0 30' 60'

PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
	610003M	TRAFFIC STRIPES, LONG LIFE, EPOXY RESIN, 4"	3200 LF
	610009M	TRAFFIC MARKINGS, THERMOPLASTIC	1900 SF
	612003P	SIGNS	220 SF

REVISION	DESCRIPTION	BY	C'K'D	DATE

SS-1
SS-2

NEW JERSEY DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNING & STRIPING PLAN

BROADWAY (CR 551)/I-676 RAMP & MORGAN BLVD

CITY OF CAMDEN, CAMDEN COUNTY

Shropshire Associates LLC
220 White Horse Pike, Suite 203, Atco, NJ 08004
P: 609.714.0744 F: 609.714.9944 www.sallc.org

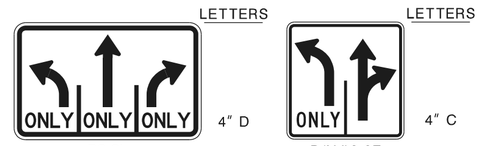
RANDAL C. BARRANGER
New Jersey Professional Engineer License No. 46333

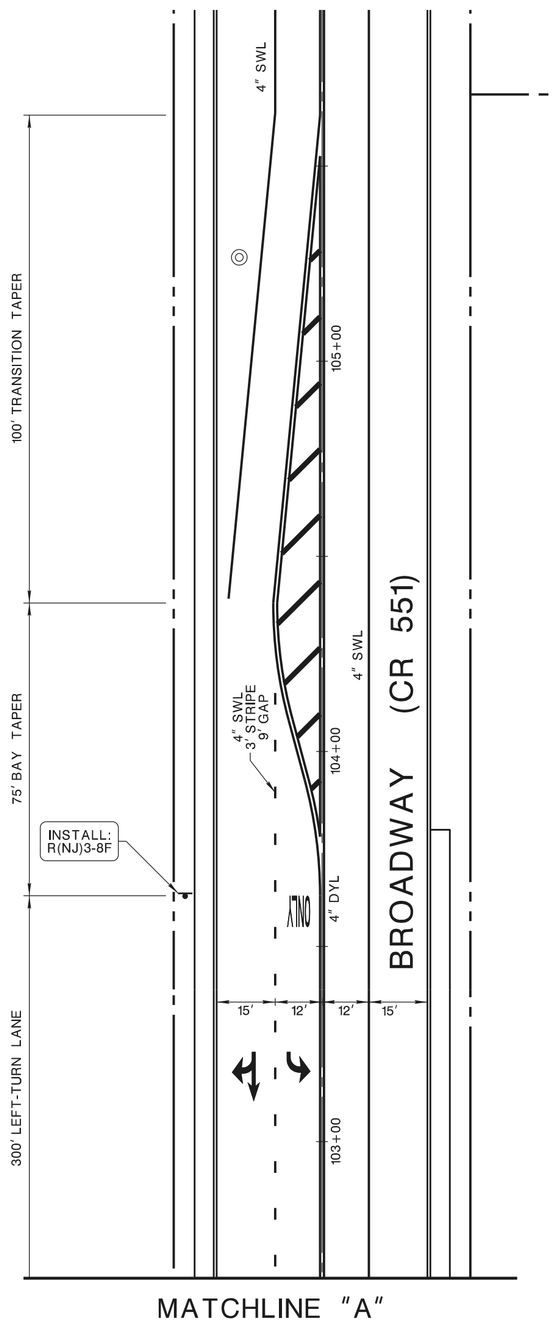
24 JUN 16
DATE

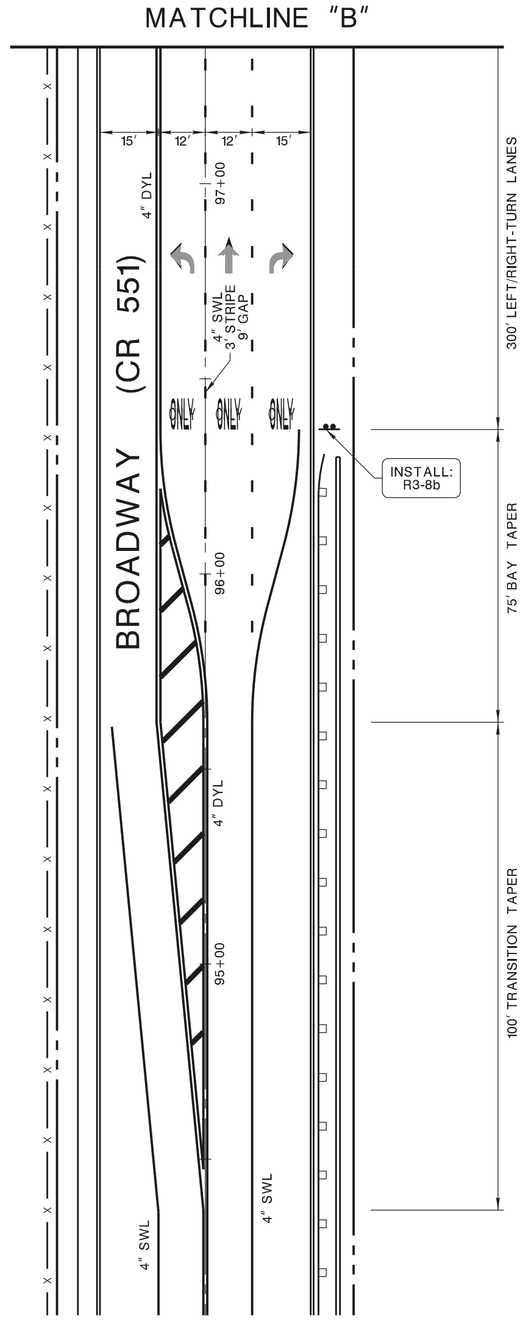
STATE	FEDERAL PROJECT NO.
N.J.	*

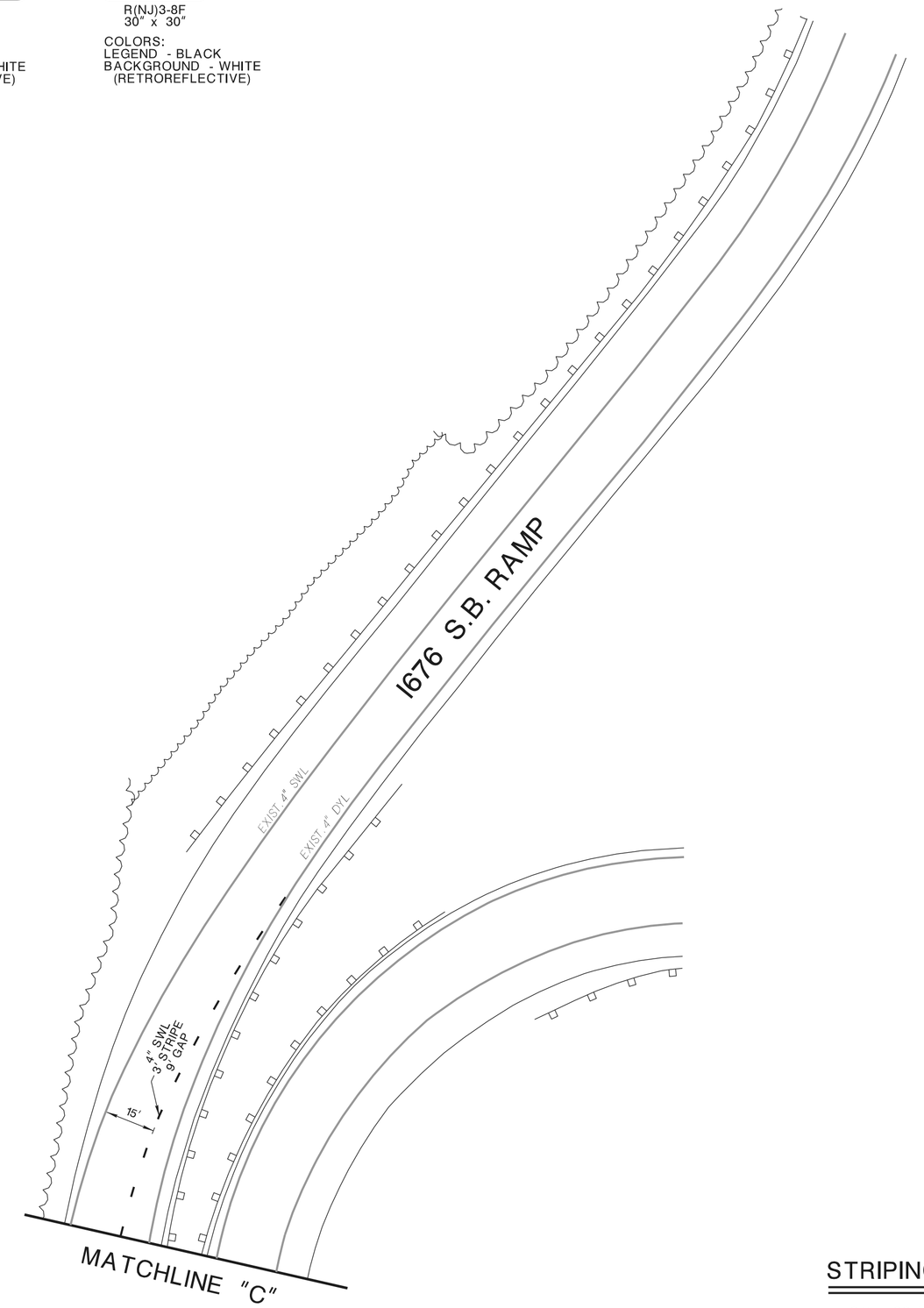
SIGN LEGEND

NOT TO SCALE









STRIPING LEGEND

SWL - SOLID WHITE LINE
BWL - BROKEN WHITE LINE
SYL - SOLID YELLOW LINE
DYL - DOUBLE YELLOW LINE

30' 20' 10' 0 30' 60'

GENERAL NOTES

1. ALL SIGNS, SIGNALS AND MARKINGS TO BE IN ACCORDANCE WITH THE CURRENT M.U.T.C.D.
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REVISION DESCRIPTION	BY	C'K'D	DATE

SS-2
SS-2

NEW JERSEY DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNING & STRIPING PLAN

BROADWAY (CR 551)/I-676 RAMP & MORGAN BLVD

CITY OF CAMDEN, CAMDEN COUNTY

Shropshire Associates LLC
227 White Horse Pike, Suite 203, Atco, NJ 08004
P: 609.714.9644 F: 774.9644 www.ssllc.org

RANDAL C. BARRANGER
New Jersey Professional Engineer License No. 48383
24 JUN 16
DATE

Directive No. _____
Broadway (CR 551) / I-676 Ramp & Morgan Boulevard
City of Camden, Camden County

120-Second Variable Cycle

Normal Operation

		Signal Indications																			
	Phase	1,2	3-5	6,7	8,9	10-12	13,14	15,16	17-20	21,22	23-25	26-28	29-32	33-36	37-40	RR1, RR2	RR3, RR4	RR5, RR6	RR7, RR8	RR Signals	RR Gates	Time (Sec)
A.	Broadway (CR 551) ROW	<R-	R	G	<R-	R	R	R	G	R	R	G	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	7 - 25
	Change (Outer)	<R-	R	G	<R-	R	R	R	Y	R	R	Y	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	Clearance	<R-	R	G	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	Inside Clearance	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5
	Change (Inner)	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	Clearance	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
B.	I-676 Ramp/Dwy ROW	<R-	R	R	<R-	R	G/<G-	G	R	G	G	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	7 - 15
	Change (Outer)	<R-	R	R	<R-	R	G/<G-	G	R	Y	Y	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	Clearance	<R-	R	R	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	Inside Clearance	<R-	R	R	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5
	Change (Inner)	<R-	R	R	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	Clearance	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
C.	Morgan Blvd ROW	<R-	G	G	<R-	G	G	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	7 - 14
	Change (Outer)	<R-	Y	G	<R-	Y	G	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	Clearance	<R-	R	G	<R-	R	G	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	Inside Clearance	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5
	Change (Inner)	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	Clearance	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
D.	Morgan Blvd Lag Lefts	<G-	R	R	<G-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5 - 7
	Change (Outer)	<Y-	R	R	<Y-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	Clearance	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	Inside Clearance	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5
	Change (Inner)	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	Clearance	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
Pre-emption	End of Railroad Pre-pulse	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	-
	Track Clearance	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	UP	3
	Track Clearance - Breakaway	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	6
	Change	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	3
	Red Clearance	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	2
	Hold	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	HORIZONTAL	-
	Return - Gate Ascending	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	ASCENDING	10
	Change	<R-	R	R	<R-	R	R	R	Y	G	G	Y	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	3
	Clearance	<R-	R	R	<R-	R	R	R	R	G	G	R	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	2
	Return to Normal (Phase B)	<R-	R	R	<R-	R	G/<G-	G	R	G	G	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	-
Emergency Flash		<R-	R	Y	<R-	Y	Y	R	R	R	R	R	Dark	Dark	Dark	OFF	OFF	OFF	OFF	OFF	UP	-

Directive No. _____
Broadway (CR 551) / I-676 Ramp & Morgan Boulevard
City of Camden, Camden County

120-Second Variable Cycle

With Pedestrian Actuation

	Phase	Signal Indications																				
		1,2	3-5	6,7	8,9	10-12	13,14	15,16	17-20	21,22	23-25	26-28	29-32	33-36	37-40	RR1, RR2	RR3, RR4	RR5, RR6	RR7, RR8	RR Signals	RR Gates	Time (Sec)
A.	Broadway (CR 551) ROW	<R-	R	G	<R-	R	R	R	G	R	R	G	DW	W	W	OFF	OFF	OFF	OFF	OFF	UP	7
	Pedestrian Clearance	<R-	R	G	<R-	R	R	R	G	R	R	G	DW	FDW	FDW	OFF	OFF	OFF	OFF	OFF	UP	25
	Change (Outer)	<R-	R	G	<R-	R	R	R	Y	R	R	Y	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	Clearance	<R-	R	G	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	Inside Clearance	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5
	Change (Inner)	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	Clearance	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
B.	I-676 Ramp/Dwwy ROW	<R-	R	R	<R-	R	G/<G-	G	R	G	G	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	7
	Change (Outer)	<R-	R	R	<R-	R	G/<G-	G	R	Y	Y	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	Clearance	<R-	R	R	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	Inside Clearance	<R-	R	R	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5
	Change (Inner)	<R-	R	R	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	Clearance	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
C.	Morgan Blvd ROW	<R-	G	G	<R-	G	G	G	R	R	R	R	W	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	7
	Pedestrian Clearance	<R-	G	G	<R-	G	G	G	R	R	R	R	FDW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	20
	Change (Outer)	<R-	Y	G	<R-	Y	G	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	Clearance	<R-	R	G	<R-	R	G	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	Inside Clearance	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5
	Change (Inner)	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	Clearance	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
D.	Morgan Blvd Lag Lefts	<G-	R	R	<G-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5
	Change (Outer)	<Y-	R	R	<Y-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	Clearance	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	Inside Clearance	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	5
	Change (Inner)	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	Clearance	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
Emergency Flash		<R-	R	Y	<R-	Y	Y	R	R	R	R	R	Dark	Dark	Dark	OFF	OFF	OFF	OFF	OFF	UP	-

Directive No. _____
Broadway (CR 551) / I-676 Ramp & Morgan Boulevard
City of Camden, Camden County

120-Second Variable Cycle

Railroad Pre-emption Operation

		Signal Indications																			
	Phase	1,2	3-5	6,7	8,9	10-12	13,14	15,16	17-20	21,22	23-25	26-28	29-32	33-36	37-40	RR1, RR2	RR3, RR4	RR5, RR6	RR7, RR8	RR Signals	RR Gates	Time (Sec)
ϕA to Pre-empt	Broadway (CR 551) ROW	<R-	R	G	<R-	R	R	R	G	R	R	G	DW	D/W	D/W	OFF	OFF	OFF	OFF	OFF	UP	-
	RR Pre-Pulse Pedestrian	<R-	R	G	<R-	R	R	R	G	R	R	G	DW	F/DW	F/DW	OFF	OFF	OFF	OFF	OFF	UP	4
	RR Pre-Pulse Change (Outer)	<R-	R	G	<R-	R	R	R	Y	R	R	Y	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	RR Pre-Pulse Clearance	<R-	R	G	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	Track Clearance	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	UP	3
	Track Clearance - Breakaway	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	6
	Change	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	3
	Red Clearance	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	2
	Hold	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	HORIZONTAL	-
	Return - Gate Ascending	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	ASCENDING	10
	Change	<R-	R	R	<R-	R	R	R	Y	G	G	Y	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	3
	Clearance	<R-	R	R	<R-	R	R	R	R	G	G	R	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	2
	Return to Normal (Phase B)	<R-	R	R	<R-	R	G/<G-	G	R	G	G	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	-
ϕB to Pre-empt	I-676 Ramp/Dvwy ROW	<R-	R	R	<R-	R	G/<G-	G	R	G	G	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	-
	RR Pre-Pulse Extension	<R-	R	R	<R-	R	G/<G-	G	R	G	G	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	4
	RR Pre-Pulse Change (Outer)	<R-	R	R	<R-	R	G/<G-	G	R	Y	Y	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	RR Pre-Pulse Clearance	<R-	R	R	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	4
	Track Clearance	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	UP	3
	Track Clearance - Breakaway	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	6
	Change	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	3
	Red Clearance	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	2
	Hold	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	HORIZONTAL	-
	Return - Gate Ascending	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	ASCENDING	10
	Change	<R-	R	R	<R-	R	R	R	Y	G	G	Y	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	3
	Clearance	<R-	R	R	<R-	R	R	R	R	G	G	R	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	2
	Return to Normal (Phase B)	<R-	R	R	<R-	R	G/<G-	G	R	G	G	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	-

Directive No. _____
Broadway (CR 551) / I-676 Ramp & Morgan Boulevard
City of Camden, Camden County

120-Second Variable Cycle

Railroad Pre-emption Operation

		Signal Indications																			
	Phase	1,2	3-5	6,7	8,9	10-12	13,14	15,16	17-20	21,22	23-25	26-28	29-32	33-36	37-40	RR1, RR2	RR3, RR4	RR5, RR6	RR7, RR8	RR Signals	RR Gates	Time (Sec)
ϕC to Pre-empt	Morgan Blvd ROW	<R-	G	G	<R-	G	G	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	-
	RR Pre-Pulse Pedestrian	<R-	G	G	<R-	G	G	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	4
	RR Pre-Pulse Change (Outer)	<R-	Y	G	<R-	Y	G	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	RR Pre-Pulse Clearance	<R-	R	G	<R-	R	G	G	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	Track Clearance	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	UP	3
	Track Clearance - Breakaway	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	6
	Change	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	3
	Red Clearance	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	2
	Hold	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	HORIZONTAL	-
	Return - Gate Ascending	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	ASCENDING	10
	Change	<R-	R	R	<R-	R	R	R	Y	G	G	Y	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	3
	Clearance	<R-	R	R	<R-	R	R	R	R	G	G	R	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	2
	Return to Normal (Phase B)	<R-	R	R	<R-	R	G/<G-	G	R	G	G	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	-
ϕD to Pre-empt	Morgan Blvd Lag Lefts	<G-	R	R	<G-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	-
	RR Pre-Pulse Extension	<G-	R	R	<G-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	4
	RR Pre-Pulse Change (Outer)	<Y-	R	R	<Y-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	3
	RR Pre-Pulse Clearance	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	2
	Track Clearance	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	UP	3
	Track Clearance - Breakaway	<R-	R	G	<R-	R	G/<G-	G	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	6
	Change	<R-	R	Y	<R-	R	Y/<Y-	Y	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	3
	Red Clearance	<R-	R	R	<R-	R	R	R	R	R	R	R	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	DESCENDING	2
	Hold	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	HORIZONTAL	-
	Return - Gate Ascending	<R-	R	R	<R-	R	R	R	G	G	G	G	DW	DW	DW	NRT	NLT	NLT	NRT	ACTIVE	ASCENDING	10
	Change	<R-	R	R	<R-	R	R	R	Y	G	G	Y	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	3
	Clearance	<R-	R	R	<R-	R	R	R	R	G	G	R	DW	DW	DW	NRT	NLT	NLT	NRT	OFF	UP	2
	Return to Normal (Phase B)	<R-	R	R	<R-	R	G/<G-	G	R	G	G	R	DW	DW	DW	OFF	OFF	OFF	OFF	OFF	UP	-

Notes:

1. The memory circuits shall be OFF.
2. The vehicle interval shall be set at 4-seconds.
3. The manual control shall be disconnected.
4. With pedestrian pushbutton actuation, the cycle length will be exceeded.
5. A queue detector pre-emption shall be provided on the I-676 southbound ramp. The queue detection shall employ a 10-second delay before accepting actuation.
6. Upon actuation of the queue detector pre-emption, all minimum Green, Yellow change, Red clearance, and pedestrian clearance times shall be guaranteed followed by Green time to Phase B for the duration of the actuation plus 15-seconds.
7. The minimum queue detector pre-emption re-service time shall be set at 4-minutes.
8. Upon completion of the queue detector pre-emption, ROW shall be given to Morgan Boulevard and Normal Operation shall resume.
9. Railroad pre-emption supercedes the queue pre-emption for the I-676 southbound ramp.
10. Phase B shall hae Dynamic MAX / MAX 3 option installed with the following parameters:
    a. the number of successive MAX terminations (max-outs) shall be set at 2
    b. the increment adjustment time or MAX 3 Adjust shall be set to 10-seconds
    c. the Dynamic Maximum Green Limit Time or MAX 3 Limit shall be set to 45-seconds
    d. the number of successive GAP terminations (gap-outs) shall be set at 2
11. During transition into Railroad Pre-emption control the minimum Green time shall be set at 4-seconds, and the pedestrian change interval shall be set at 4-seconds.
12. All railroad equipment and hardware (flashing Red light signals, automatic gates, mast mounted crossbucks and accompanying signs) are owned, operated and maintained by Consolidated Rail Corporation (CONRAIL).

LOCATION: Broadway & Viola, Jefferson #016 **DATE:** 12-1-22

INTERSECTION TIMING

	1	2	3	4	5	6	7	8
MIN GRN		50		10				
PASSAGE								
WALK								
DON'T WALK								
S/A								
MAX INT								
TBR								
TTR								
MIN GAP								
MAX I		50		10				
MAX II								
MAX III								
YELLOW		3.0		3.0				
RED		2.0		2.0				

PHASES USED

1	
2	✓
3	
4	✓
5	
6	
7	
8	

RECALL

✓
✓

Dual Entry Phases

SEQUENCE

Ring 1	Ring 2
✓	

OVERLAP DATA

	A	B	C	D
Phases				
Type				
Timed				
Grn Ext				
Yel				
Red				

TIME OF DAY DATA

	Days	From	To
Max 2			
Max 3			
Max 1 all other times			
Flash			

PHASE ON OMITS PHASE DATA

Phase On	Omits Phase

DETECTOR DATA

Det #	Phase	Input	Sys #	Delay	Mode	Switch To Phase

Form /71

New Jersey Department of Transportation

TRAFFIC ENGINEERING – ELECTRICAL PROJECT

Number 596

Job No.	0418103
Memo to	Mr. R. Uth - #4
Attention	

Route No.	I-676 Morgan Boulevard and Relocated
Location	Master Street and Ramp SM Camden City, Camden County
Dote	May 1, 1980

Kindly engage your State forces to employ signal timing and operations as shown below:

70 Second Background Cycle

Phase	Signal Faces 1-6	7-10	11-13	Time
A. Morgan Boulevard ROW	G	R	R	38-22
A. Morgan Boulevard Change	Y	R	R	3*
A. Morgan Boulevard Clear	R	R	R	2
B. Ramp SM ROW	R	R	G	***10-22
B. Ramp SM Change	R	R	Y	3
B. Ramp SM Clearance	R	R	R	2
C. Relocated Master Street ROW	R	G	R	7-11**
C. Relocated Master Street Change	R	Y	R	3
C. Relocated Master Street Clear	R	R	R	2

Reference:

Vehicle interval for Phases B and C: 2 seconds

Memory circuit for Phases B and C be disconnected.

Manual control be disconnected.

Controller shall be capable of skipping phases not actuated.

*Offset is 0 seconds measured from the beginning of yellow to Morgan Boulevard at this intersection.

**An actuation of the pedestrian push button on the northeast corner shall provide 11 seconds of green to Phase C without recall.

***An actuation of the pedestrian push button on the southeast corner shall provide 11 seconds of green to Phase B.

JMP:JS:vls

HOLTEC TECHNOLOGY CENTER ROAD WIDENING AND BUILDING EXPANSION

APPENDIX B

2025 Existing Synchro Analysis Worksheets

Intersection	
Int Delay, s/veh	3.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		⇕			⇕			⇕			⇕	
Traffic Vol, veh/h	1	14	8	3	13	56	2	101	9	40	57	3
Future Vol, veh/h	1	14	8	3	13	56	2	101	9	40	57	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	90	90	90	90	72	72	72	86	86	86
Heavy Vehicles, %	0	36	13	0	31	5	50	16	11	8	26	0
Mvmt Flow	1	15	9	3	14	62	3	140	13	47	66	3

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	314	319	68	319	315	147	70	0	0	153	0	0
Stage 1	161	161	-	152	152	-	-	-	-	-	-	-
Stage 2	153	158	-	167	163	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.86	6.33	7.1	6.81	6.25	4.6	-	-	4.18	-	-
Critical Hdwy Stg 1	6.1	5.86	-	6.1	5.81	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.86	-	6.1	5.81	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4.324	3.417	3.5	4.279	3.345	2.65	-	-	2.272	-	-
Pot Cap-1 Maneuver	642	545	965	638	556	893	1275	-	-	1392	-	-
Stage 1	846	705	-	855	719	-	-	-	-	-	-	-
Stage 2	854	707	-	840	712	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	561	525	965	592	535	893	1275	-	-	1392	-	-
Mov Cap-2 Maneuver	561	525	-	592	535	-	-	-	-	-	-	-
Stage 1	816	680	-	853	718	-	-	-	-	-	-	-
Stage 2	777	705	-	786	687	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	10.93	10.13	0.14	3.07
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	32	-	-	631	782	713	-	-
HCM Lane V/C Ratio	0.002	-	-	0.039	0.102	0.033	-	-
HCM Ctrl Dly (s/v)	7.8	0	-	10.9	10.1	7.7	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.3	0.1	-	-

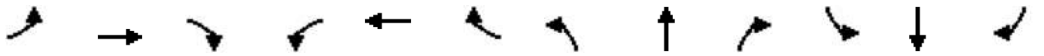
Intersection	
Int Delay, s/veh	2.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	64	10	39	100	13	6
Future Vol, veh/h	64	10	39	100	13	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Stop
Storage Length	-	-	175	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	84	84	85	85	61	61
Heavy Vehicles, %	20	20	23	21	8	33
Mvmt Flow	76	12	46	118	21	10

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	88	0	292	82
Stage 1	-	-	-	-	82	-
Stage 2	-	-	-	-	209	-
Critical Hdwy	-	-	4.33	-	6.48	6.53
Critical Hdwy Stg 1	-	-	-	-	5.48	-
Critical Hdwy Stg 2	-	-	-	-	5.48	-
Follow-up Hdwy	-	-	2.407	-	3.572	3.597
Pot Cap-1 Maneuver	-	-	1385	-	687	898
Stage 1	-	-	-	-	926	-
Stage 2	-	-	-	-	812	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1385	-	664	898
Mov Cap-2 Maneuver	-	-	-	-	664	-
Stage 1	-	-	-	-	926	-
Stage 2	-	-	-	-	785	-

Approach	EB	WB	NB
HCM Ctrl Dly, s/v	0	2.16	8.85
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	967	-	-	1385	-
HCM Lane V/C Ratio	0.032	-	-	0.033	-
HCM Ctrl Dly (s/v)	8.8	-	-	7.7	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-



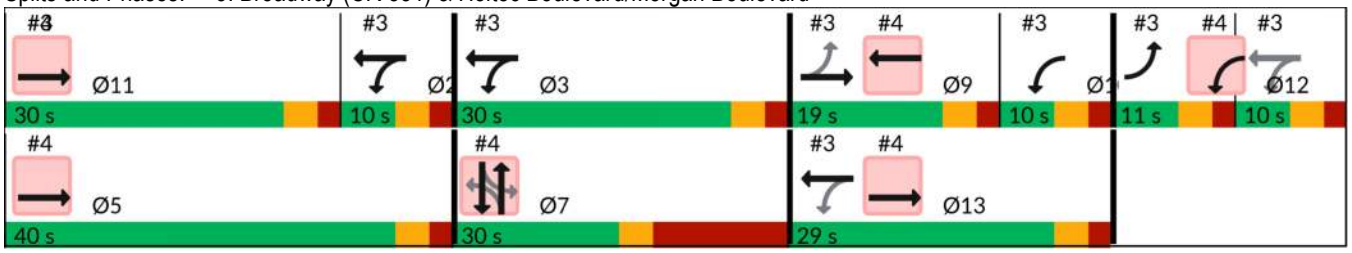
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	3	0	73	155	82	3	57	49	50	31	0
Future Volume (vph)	1	3	0	73	155	82	3	57	49	50	31	0
Ideal Flow (vphpl)	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Storage Length (ft)	190		0	100		0	315		0	375		0
Storage Lanes	1		0	1		0	1		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt					0.948				0.850			
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1852	3167	0	1278	3308	0	1852	1773	1237	1531	1585	0
Flt Permitted	0.575			0.754			0.731			0.708		
Satd. Flow (perm)	1121	3167	0	1014	3308	0	1425	1773	1237	1141	1585	0
Right Turn on Red			Yes			Yes			No			Yes
Satd. Flow (RTOR)					100							
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		520			173			434			525	
Travel Time (s)		14.2			4.7			11.8			14.3	
Peak Hour Factor	0.50	0.50	0.50	0.82	0.82	0.82	0.76	0.76	0.76	0.78	0.78	0.78
Heavy Vehicles (%)	0%	17%	0%	45%	1%	16%	0%	10%	34%	21%	23%	0%
Adj. Flow (vph)	2	6	0	89	189	100	4	75	64	64	40	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	2	6	0	89	289	0	4	75	64	64	40	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		-2			2			-6			6	
Crosswalk Width(ft)		36			42			32			30	
Two way Left Turn Lane												
Headway Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	1		1	1		1	1	1	1	1	
Detector Template	Left	Thru		Left	Thru		Left	Thru	Right	Left	Thru	
Leading Detector (ft)	50	50		50	50		50	50	50	50	50	
Trailing Detector (ft)	-10	-10		-10	-10		-10	-10	-10	-10	-10	
Detector 1 Position(ft)	-10	-10		-10	-10		-10	-10	-10	-10	-10	
Detector 1 Size(ft)	60	60		60	60		60	60	60	60	60	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Turn Type	pm+pt	NA		custom	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	12	9		10 2 3	2 3 13			1			1	
Permitted Phases	9			11 13	2 11		1		1	1		
Detector Phase	12	9		10 2 3	2 3 13		1	1	1	1	1	
Switch Phase												
Minimum Initial (s)	5.0	7.0					7.0	7.0	7.0	7.0	7.0	
Minimum Split (s)	10.0	12.0					12.0	12.0	12.0	12.0	12.0	

Lane Group	Ø2	Ø3	Ø5	Ø7	Ø10	Ø11	Ø13
Lane Configurations							
Traffic Volume (vph)							
Future Volume (vph)							
Ideal Flow (vphpl)							
Storage Length (ft)							
Storage Lanes							
Taper Length (ft)							
Lane Util. Factor							
Frt							
Flt Protected							
Satd. Flow (prot)							
Flt Permitted							
Satd. Flow (perm)							
Right Turn on Red							
Satd. Flow (RTOR)							
Link Speed (mph)							
Link Distance (ft)							
Travel Time (s)							
Peak Hour Factor							
Heavy Vehicles (%)							
Adj. Flow (vph)							
Shared Lane Traffic (%)							
Lane Group Flow (vph)							
Enter Blocked Intersection							
Lane Alignment							
Median Width(ft)							
Link Offset(ft)							
Crosswalk Width(ft)							
Two way Left Turn Lane							
Headway Factor							
Turning Speed (mph)							
Number of Detectors							
Detector Template							
Leading Detector (ft)							
Trailing Detector (ft)							
Detector 1 Position(ft)							
Detector 1 Size(ft)							
Detector 1 Type							
Detector 1 Channel							
Detector 1 Extend (s)							
Detector 1 Queue (s)							
Detector 1 Delay (s)							
Turn Type							
Protected Phases	2	3	5	7	10	11	13
Permitted Phases							
Detector Phase							
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	7.0	5.0	5.0	5.0
Minimum Split (s)	10.0	10.0	10.0	22.5	10.0	10.0	10.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (s)	11.0	19.0					30.0	30.0	30.0	30.0	30.0	
Total Split (%)	9.2%	15.8%					25.0%	25.0%	25.0%	25.0%	25.0%	
Maximum Green (s)	6.0	14.0					25.0	25.0	25.0	25.0	25.0	
Yellow Time (s)	3.0	3.0					3.0	3.0	3.0	3.0	3.0	
All-Red Time (s)	2.0	2.0					2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0					0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	5.0	5.0					5.0	5.0	5.0	5.0	5.0	
Lead/Lag	Lead	Lead					Lead	Lead	Lead	Lead	Lead	
Lead-Lag Optimize?	Yes	Yes					Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	3.0	4.0					4.0	4.0	4.0	4.0	4.0	
Recall Mode	None	None					None	None	None	None	None	
Act Effct Green (s)	19.1	12.9		62.6	71.4		12.3	12.3	12.3	12.3	12.3	
Actuated g/C Ratio	0.20	0.14		0.66	0.76		0.13	0.13	0.13	0.13	0.13	
v/c Ratio	0.01	0.01		0.11	0.11		0.02	0.32	0.40	0.43	0.19	
Control Delay (s/veh)	27.0	42.3		1.5	0.1		40.3	45.0	49.2	51.2	42.8	
Queue Delay	0.0	0.0		0.2	0.3		0.0	0.0	0.0	0.0	0.0	
Total Delay (s/veh)	27.0	42.3		1.7	0.5		40.3	45.0	49.2	51.2	42.8	
LOS	C	D		A	A		D	D	D	D	D	
Approach Delay (s/veh)		38.5			0.8			46.8			48.0	
Approach LOS		D			A			D			D	

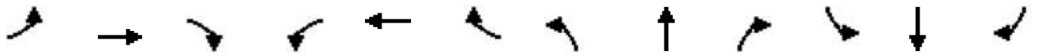
Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 94.3			
Natural Cycle: 90			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.64			
Intersection Signal Delay (s/veh): 19.4		Intersection LOS: B	
Intersection Capacity Utilization 30.0%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 3: Broadway (CR 551) & Holtec Boulevard/Morgan Boulevard



Lane Group	Ø2	Ø3	Ø5	Ø7	Ø10	Ø11	Ø13
Total Split (s)	10.0	30.0	40.0	30.0	10.0	10.0	29.0
Total Split (%)	8%	25%	33%	25%	8%	8%	24%
Maximum Green (s)	5.0	25.0	35.0	15.0	5.0	5.0	24.0
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
All-Red Time (s)	2.0	2.0	2.0	12.0	2.0	2.0	2.0
Lost Time Adjust (s)							
Total Lost Time (s)							
Lead/Lag	Lag				Lag	Lag	
Lead-Lag Optimize?	Yes				Yes	Yes	
Vehicle Extension (s)	4.0	3.0	3.0	4.0	3.0	3.0	3.0
Recall Mode	Max	None	None	None	None	None	None
Act Effct Green (s)							
Actuated g/C Ratio							
v/c Ratio							
Control Delay (s/veh)							
Queue Delay							
Total Delay (s/veh)							
LOS							
Approach Delay (s/veh)							
Approach LOS							

Intersection Summary



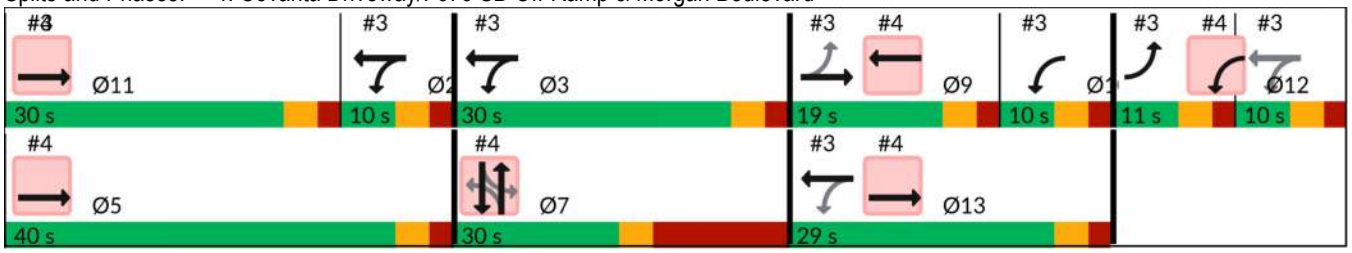
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	100	2	12	195	0	4	0	16	94	5	90
Future Volume (vph)	0	100	2	12	195	0	4	0	16	94	5	90
Ideal Flow (vphpl)	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Storage Length (ft)	0		0	115		0	0		0	250		0
Storage Lanes	0		0	1		0	0		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.997						0.891			0.858	
Flt Protected				0.950				0.990		0.950		
Satd. Flow (prot)	0	2709	0	1012	3088	0	0	931	0	1654	1422	0
Flt Permitted				0.950				0.901		0.737		
Satd. Flow (perm)	0	2709	0	1012	3088	0	0	848	0	1283	1422	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2						245			118	
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		173			781			270			419	
Travel Time (s)		4.7			21.3			7.4			11.4	
Peak Hour Factor	0.88	0.88	0.88	0.85	0.85	0.85	0.63	0.63	0.63	0.76	0.76	0.76
Heavy Vehicles (%)	0%	37%	0%	83%	20%	0%	100%	0%	81%	12%	80%	14%
Adj. Flow (vph)	0	114	2	14	229	0	6	0	25	124	7	118
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	116	0	14	229	0	0	31	0	124	125	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			12	
Link Offset(ft)		0			-4			0			4	
Crosswalk Width(ft)		16			38			22			26	
Two way Left Turn Lane												
Headway Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors		1		1	1			1		1	1	
Detector Template		Thru		Left	Thru			Thru		Left	Thru	
Leading Detector (ft)		50		50	50			50		50	50	
Trailing Detector (ft)		-10		-10	-10			-10		-10	-10	
Detector 1 Position(ft)		-10		-10	-10			-10		-10	-10	
Detector 1 Size(ft)		60		60	60			60		60	60	
Detector 1 Type		Cl+Ex		Cl+Ex	Cl+Ex			Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Detector 1 Queue (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Detector 1 Delay (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Turn Type		NA		Prot	NA		Perm	NA		Perm	NA	
Protected Phases		5 13 11		12	9			7			7	
Permitted Phases							7			7	7	
Detector Phase		5 13 11		12	9		7	7		7	7	
Switch Phase												
Minimum Initial (s)				5.0	7.0		7.0	7.0		7.0	7.0	
Minimum Split (s)				10.0	12.0		22.5	22.5		22.5	22.5	

Lane Group	Ø1	Ø2	Ø3	Ø5	Ø10	Ø11	Ø13
Lane Configurations							
Traffic Volume (vph)							
Future Volume (vph)							
Ideal Flow (vphpl)							
Storage Length (ft)							
Storage Lanes							
Taper Length (ft)							
Lane Util. Factor							
Frt							
Flt Protected							
Satd. Flow (prot)							
Flt Permitted							
Satd. Flow (perm)							
Right Turn on Red							
Satd. Flow (RTOR)							
Link Speed (mph)							
Link Distance (ft)							
Travel Time (s)							
Peak Hour Factor							
Heavy Vehicles (%)							
Adj. Flow (vph)							
Shared Lane Traffic (%)							
Lane Group Flow (vph)							
Enter Blocked Intersection							
Lane Alignment							
Median Width(ft)							
Link Offset(ft)							
Crosswalk Width(ft)							
Two way Left Turn Lane							
Headway Factor							
Turning Speed (mph)							
Number of Detectors							
Detector Template							
Leading Detector (ft)							
Trailing Detector (ft)							
Detector 1 Position(ft)							
Detector 1 Size(ft)							
Detector 1 Type							
Detector 1 Channel							
Detector 1 Extend (s)							
Detector 1 Queue (s)							
Detector 1 Delay (s)							
Turn Type							
Protected Phases	1	2	3	5	10	11	13
Permitted Phases							
Detector Phase							
Switch Phase							
Minimum Initial (s)	7.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	12.0	10.0	10.0	10.0	10.0	10.0	10.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (s)				11.0	19.0		30.0	30.0		30.0	30.0	
Total Split (%)				9.2%	15.8%		25.0%	25.0%		25.0%	25.0%	
Maximum Green (s)				6.0	14.0		15.0	15.0		15.0	15.0	
Yellow Time (s)				3.0	3.0		3.0	3.0		3.0	3.0	
All-Red Time (s)				2.0	2.0		12.0	12.0		12.0	12.0	
Lost Time Adjust (s)				0.0	0.0			0.0		0.0	0.0	
Total Lost Time (s)				5.0	5.0			15.0		15.0	15.0	
Lead/Lag				Lead	Lead							
Lead-Lag Optimize?				Yes	Yes							
Vehicle Extension (s)				3.0	4.0		4.0	4.0		4.0	4.0	
Recall Mode				None	None		None	None		None	None	
Act Effct Green (s)		53.6		6.2	12.9			14.3		14.3	14.3	
Actuated g/C Ratio		0.57		0.07	0.14			0.15		0.15	0.15	
v/c Ratio		0.08		0.21	0.54			0.09		0.64	0.40	
Control Delay (s/veh)		0.2		57.4	47.0			0.6		59.0	13.9	
Queue Delay		0.1		0.0	0.0			0.0		0.0	0.0	
Total Delay (s/veh)		0.3		57.4	47.0			0.6		59.0	13.9	
LOS		A		E	D			A		E	B	
Approach Delay (s/veh)		0.3			47.6			0.6			36.4	
Approach LOS		A			D			A			D	

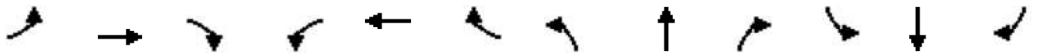
Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 94.3			
Natural Cycle: 90			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.64			
Intersection Signal Delay (s/veh): 32.3		Intersection LOS: C	
Intersection Capacity Utilization 35.7%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 4: Covanta Driveway/I-676 SB Off-Ramp & Morgan Boulevard



Lane Group	Ø1	Ø2	Ø3	Ø5	Ø10	Ø11	Ø13
Total Split (s)	30.0	10.0	30.0	40.0	10.0	10.0	29.0
Total Split (%)	25%	8%	25%	33%	8%	8%	24%
Maximum Green (s)	25.0	5.0	25.0	35.0	5.0	5.0	24.0
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)							
Total Lost Time (s)							
Lead/Lag	Lead	Lag			Lag	Lag	
Lead-Lag Optimize?	Yes	Yes			Yes	Yes	
Vehicle Extension (s)	4.0	4.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	Max	None	None	None	None	None
Act Effct Green (s)							
Actuated g/C Ratio							
v/c Ratio							
Control Delay (s/veh)							
Queue Delay							
Total Delay (s/veh)							
LOS							
Approach Delay (s/veh)							
Approach LOS							

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	129	0	0	213	10	158	86	0	9	0	153
Future Volume (veh/h)	0	129	0	0	213	10	158	86	0	9	0	153
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	0	1844	0	0	1813	1752	1463	1844	0	1631	1950	1844
Adj Flow Rate, veh/h	0	159	0	0	234	11	145	162	0	11	0	105
Peak Hour Factor	0.81	0.81	0.81	0.91	0.91	0.91	0.84	0.84	0.84	0.84	0.84	0.84
Percent Heavy Veh, %	0	7	0	0	9	13	32	7	0	21	0	7
Cap, veh/h	0	1939	0	0	1855	87	199	263		14	0	135
Arrive On Green	0.00	0.55	0.00	0.00	0.55	0.55	0.14	0.14	0.00	0.09	0.00	0.09
Sat Flow, veh/h	0	3687	0	0	3441	157	1394	1844	0	158	0	1512
Grp Volume(v), veh/h	0	159	0	0	120	125	145	162	0	116	0	0
Grp Sat Flow(s),veh/h/ln	0	1751	0	0	1722	1785	1394	1844	0	1670	0	0
Q Serve(g_s), s	0.0	1.5	0.0	0.0	2.3	2.4	7.0	5.8	0.0	4.8	0.0	0.0
Cycle Q Clear(g_c), s	0.0	1.5	0.0	0.0	2.3	2.4	7.0	5.8	0.0	4.8	0.0	0.0
Prop In Lane	0.00		0.00	0.00		0.09	1.00		0.00	0.09		0.91
Lane Grp Cap(c), veh/h	0	1939	0	0	954	988	199	263		149	0	0
V/C Ratio(X)	0.00	0.08	0.00	0.00	0.13	0.13	0.73	0.62		0.78	0.00	0.00
Avail Cap(c_a), veh/h	0	1939	0	0	954	988	338	448		167	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.94	0.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	7.3	0.0	0.0	7.5	7.5	28.7	28.2	0.0	31.2	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.0	0.3	0.3	5.1	2.3	0.0	18.4	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.5	0.0	0.0	0.8	0.9	2.5	2.7	0.0	2.6	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	7.4	0.0	0.0	7.8	7.8	33.8	30.6	0.0	49.6	0.0	0.0
LnGrp LOS		A			A	A	C	C		D		
Approach Vol, veh/h		159			245			307			116	
Approach Delay, s/veh		7.4			7.8			32.1			49.6	
Approach LOS		A			A			C			D	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	15.0	43.8	11.3	43.8
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	17.0	31.0	7.0	31.0
Max Q Clear Time (g_c+I1), s	9.0	0.0	6.8	0.0
Green Ext Time (p_c), s	0.8	0.0	0.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	22.6
HCM 7th LOS	C

Notes

User approved volume balancing among the lanes for turning movement.
Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	4.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		⇕			⇕			⇕			⇕	
Traffic Vol, veh/h	3	10	17	17	11	59	3	88	17	73	178	5
Future Vol, veh/h	3	10	17	17	11	59	3	88	17	73	178	5
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	63	63	63	73	73	73	77	77	77	88	88	88
Heavy Vehicles, %	0	20	6	6	27	2	0	10	0	0	7	0
Mvmt Flow	5	16	27	23	15	81	4	114	22	83	202	6

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	501	515	205	509	507	125	208	0	0	136	0	0
Stage 1	371	371	-	133	133	-	-	-	-	-	-	-
Stage 2	130	144	-	376	374	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.7	6.26	7.16	6.77	6.22	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.7	-	6.16	5.77	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.7	-	6.16	5.77	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4.18	3.354	3.554	4.243	3.318	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	484	439	825	468	434	925	1375	-	-	1460	-	-
Stage 1	653	589	-	861	741	-	-	-	-	-	-	-
Stage 2	879	744	-	637	576	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	398	409	825	407	405	925	1375	-	-	1460	-	-
Mov Cap-2 Maneuver	398	409	-	407	405	-	-	-	-	-	-	-
Stage 1	611	551	-	858	738	-	-	-	-	-	-	-
Stage 2	783	742	-	560	539	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	11.88	11.71	0.21	2.17
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	48	-	-	571	656	510	-	-
HCM Lane V/C Ratio	0.003	-	-	0.083	0.182	0.057	-	-
HCM Ctrl Dly (s/v)	7.6	0	-	11.9	11.7	7.6	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.3	0.7	0.2	-	-

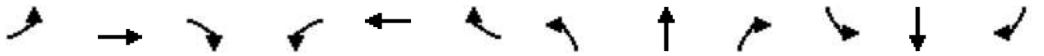
Intersection	
Int Delay, s/veh	2.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	246	8	2	85	11	37
Future Vol, veh/h	246	8	2	85	11	37
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Stop
Storage Length	-	-	175	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	87	87	84	84	41	41
Heavy Vehicles, %	4	0	0	9	9	3
Mvmt Flow	283	9	2	101	27	90

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	292	0	393	287
Stage 1	-	-	-	-	287	-
Stage 2	-	-	-	-	106	-
Critical Hdwy	-	-	4.1	-	6.49	6.23
Critical Hdwy Stg 1	-	-	-	-	5.49	-
Critical Hdwy Stg 2	-	-	-	-	5.49	-
Follow-up Hdwy	-	-	2.2	-	3.581	3.327
Pot Cap-1 Maneuver	-	-	1281	-	598	749
Stage 1	-	-	-	-	746	-
Stage 2	-	-	-	-	901	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1281	-	597	749
Mov Cap-2 Maneuver	-	-	-	-	597	-
Stage 1	-	-	-	-	746	-
Stage 2	-	-	-	-	900	-

Approach	EB	WB	NB
HCM Ctrl Dly, s/v	0	0.18	9.23
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	967	-	-	1281	-
HCM Lane V/C Ratio	0.121	-	-	0.002	-
HCM Ctrl Dly (s/v)	9.2	-	-	7.8	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0.4	-	-	0	-



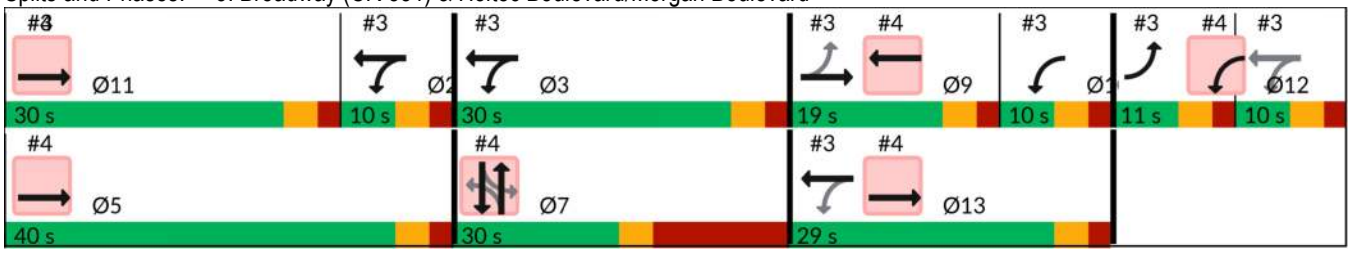
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	162	26	267	7	38	0	43	61	92	169	2
Future Volume (vph)	1	162	26	267	7	38	0	43	61	92	169	2
Ideal Flow (vphpl)	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Storage Length (ft)	190		0	100		0	315		0	375		0
Storage Lanes	1		0	1		0	1		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.979			0.874				0.850		0.998	
Flt Protected	0.950			0.950						0.950		
Satd. Flow (prot)	1852	3596	0	1816	3034	0	1950	1789	1192	1764	1872	0
Flt Permitted	0.719			0.553						0.725		
Satd. Flow (perm)	1402	3596	0	1057	3034	0	1950	1789	1192	1346	1872	0
Right Turn on Red			Yes			Yes			No			Yes
Satd. Flow (RTOR)		12			47							
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		520			173			434			525	
Travel Time (s)		14.2			4.7			11.8			14.3	
Peak Hour Factor	0.80	0.80	0.80	0.81	0.81	0.81	0.87	0.87	0.87	0.90	0.90	0.90
Heavy Vehicles (%)	0%	1%	0%	2%	0%	8%	0%	9%	39%	5%	4%	0%
Adj. Flow (vph)	1	203	33	330	9	47	0	49	70	102	188	2
Shared Lane Traffic (%)												
Lane Group Flow (vph)	1	236	0	330	56	0	0	49	70	102	190	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		-2			2			-6			6	
Crosswalk Width(ft)		36			42			32			30	
Two way Left Turn Lane												
Headway Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	1		1	1		1	1	1	1	1	
Detector Template	Left	Thru		Left	Thru		Left	Thru	Right	Left	Thru	
Leading Detector (ft)	50	50		50	50		50	50	50	50	50	
Trailing Detector (ft)	-10	-10		-10	-10		-10	-10	-10	-10	-10	
Detector 1 Position(ft)	-10	-10		-10	-10		-10	-10	-10	-10	-10	
Detector 1 Size(ft)	60	60		60	60		60	60	60	60	60	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Turn Type	pm+pt	NA		custom	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	12	9		10 2 3	2 3 13			1			1	
Permitted Phases	9			11 13	2 11		1		1	1		
Detector Phase	12	9		10 2 3	2 3 13		1	1	1	1	1	
Switch Phase												
Minimum Initial (s)	5.0	7.0					7.0	7.0	7.0	7.0	7.0	
Minimum Split (s)	10.0	12.0					12.0	12.0	12.0	12.0	12.0	

Lane Group	Ø2	Ø3	Ø5	Ø7	Ø10	Ø11	Ø13
Lane Configurations							
Traffic Volume (vph)							
Future Volume (vph)							
Ideal Flow (vphpl)							
Storage Length (ft)							
Storage Lanes							
Taper Length (ft)							
Lane Util. Factor							
Frt							
Flt Protected							
Satd. Flow (prot)							
Flt Permitted							
Satd. Flow (perm)							
Right Turn on Red							
Satd. Flow (RTOR)							
Link Speed (mph)							
Link Distance (ft)							
Travel Time (s)							
Peak Hour Factor							
Heavy Vehicles (%)							
Adj. Flow (vph)							
Shared Lane Traffic (%)							
Lane Group Flow (vph)							
Enter Blocked Intersection							
Lane Alignment							
Median Width(ft)							
Link Offset(ft)							
Crosswalk Width(ft)							
Two way Left Turn Lane							
Headway Factor							
Turning Speed (mph)							
Number of Detectors							
Detector Template							
Leading Detector (ft)							
Trailing Detector (ft)							
Detector 1 Position(ft)							
Detector 1 Size(ft)							
Detector 1 Type							
Detector 1 Channel							
Detector 1 Extend (s)							
Detector 1 Queue (s)							
Detector 1 Delay (s)							
Turn Type							
Protected Phases	2	3	5	7	10	11	13
Permitted Phases							
Detector Phase							
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	7.0	5.0	5.0	5.0
Minimum Split (s)	10.0	10.5	10.0	22.5	10.0	10.0	10.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (s)	11.0	19.0					30.0	30.0	30.0	30.0	30.0	
Total Split (%)	9.2%	15.8%					25.0%	25.0%	25.0%	25.0%	25.0%	
Maximum Green (s)	6.0	14.0					25.0	25.0	25.0	25.0	25.0	
Yellow Time (s)	3.0	3.0					3.0	3.0	3.0	3.0	3.0	
All-Red Time (s)	2.0	2.0					2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0					0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	5.0	5.0					5.0	5.0	5.0	5.0	5.0	
Lead/Lag	Lead	Lead					Lead	Lead	Lead	Lead	Lead	
Lead-Lag Optimize?	Yes	Yes					Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	3.0	4.0					4.0	4.0	4.0	4.0	4.0	
Recall Mode	None	None					None	None	None	None	None	
Act Effct Green (s)	18.2	12.3		62.7	72.0			16.9	16.9	16.9	16.9	
Actuated g/C Ratio	0.18	0.12		0.62	0.71			0.17	0.17	0.17	0.17	
v/c Ratio	0.00	0.53		0.35	0.03			0.16	0.35	0.46	0.61	
Control Delay (s/veh)	28.0	45.8		5.1	0.5			38.3	43.6	45.8	48.7	
Queue Delay	0.0	0.0		0.7	0.0			0.0	0.0	0.0	0.0	
Total Delay (s/veh)	28.0	45.8		5.8	0.5			38.3	43.6	45.8	48.7	
LOS	C	D		A	A			D	D	D	D	
Approach Delay (s/veh)		45.8			5.1			41.4			47.7	
Approach LOS		D			A			D			D	

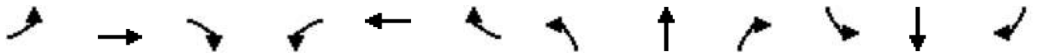
Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 101.7			
Natural Cycle: 100			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 1.23			
Intersection Signal Delay (s/veh): 30.6		Intersection LOS: C	
Intersection Capacity Utilization 44.4%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 3: Broadway (CR 551) & Holtec Boulevard/Morgan Boulevard



Lane Group	Ø2	Ø3	Ø5	Ø7	Ø10	Ø11	Ø13
Total Split (s)	10.0	30.0	40.0	30.0	10.0	10.0	29.0
Total Split (%)	8%	25%	33%	25%	8%	8%	24%
Maximum Green (s)	5.0	25.0	35.0	15.0	5.0	5.0	24.0
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
All-Red Time (s)	2.0	2.0	2.0	12.0	2.0	2.0	2.0
Lost Time Adjust (s)							
Total Lost Time (s)							
Lead/Lag	Lag				Lag	Lag	
Lead-Lag Optimize?	Yes				Yes	Yes	
Vehicle Extension (s)	4.0	3.0	3.0	4.0	3.0	3.0	3.0
Recall Mode	Max	None	None	None	None	None	None
Act Effct Green (s)							
Actuated g/C Ratio							
v/c Ratio							
Control Delay (s/veh)							
Queue Delay							
Total Delay (s/veh)							
LOS							
Approach Delay (s/veh)							
Approach LOS							

Intersection Summary



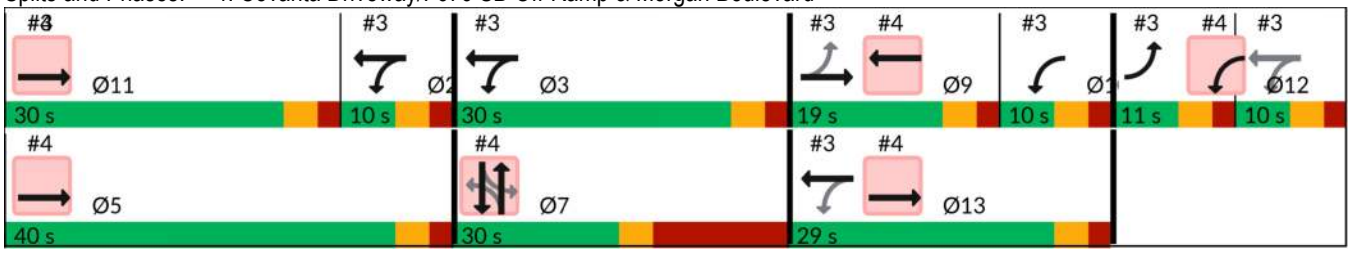
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	316	2	5	55	0	1	0	20	212	1	259
Future Volume (vph)	0	316	2	5	55	0	1	0	20	212	1	259
Ideal Flow (vphpl)	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Storage Length (ft)	0		0	115		0	0		0	250		0
Storage Lanes	0		0	1		0	0		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.999						0.870			0.850	
Flt Protected				0.950				0.998		0.950		
Satd. Flow (prot)	0	3389	0	1158	3529	0	0	1191	0	1799	1641	0
Flt Permitted				0.950				0.712		0.739		
Satd. Flow (perm)	0	3389	0	1158	3529	0	0	850	0	1399	1641	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		1						245			312	
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		173			781			270			419	
Travel Time (s)		4.7			21.3			7.4			11.4	
Peak Hour Factor	0.82	0.82	0.82	0.76	0.76	0.76	0.75	0.75	0.75	0.83	0.83	0.83
Heavy Vehicles (%)	0%	9%	50%	60%	5%	0%	100%	0%	40%	3%	0%	1%
Adj. Flow (vph)	0	385	2	7	72	0	1	0	27	255	1	312
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	387	0	7	72	0	0	28	0	255	313	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			12	
Link Offset(ft)		0			-4			0			4	
Crosswalk Width(ft)		16			38			22			26	
Two way Left Turn Lane												
Headway Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors		1		1	1			1		1	1	
Detector Template		Thru		Left	Thru			Thru		Left	Thru	
Leading Detector (ft)		50		50	50			50		50	50	
Trailing Detector (ft)		-10		-10	-10			-10		-10	-10	
Detector 1 Position(ft)		-10		-10	-10			-10		-10	-10	
Detector 1 Size(ft)		60		60	60			60		60	60	
Detector 1 Type		Cl+Ex		Cl+Ex	Cl+Ex			Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Detector 1 Queue (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Detector 1 Delay (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Turn Type		NA		Prot	NA		Perm	NA		Perm	NA	
Protected Phases		5 13 11		12	9			7			7	
Permitted Phases							7			7	7	
Detector Phase		5 13 11		12	9		7	7		7	7	
Switch Phase												
Minimum Initial (s)				5.0	7.0		7.0	7.0		7.0	7.0	
Minimum Split (s)				10.0	12.0		22.5	22.5		22.5	22.5	

Lane Group	Ø1	Ø2	Ø3	Ø5	Ø10	Ø11	Ø13
Lane Configurations							
Traffic Volume (vph)							
Future Volume (vph)							
Ideal Flow (vphpl)							
Storage Length (ft)							
Storage Lanes							
Taper Length (ft)							
Lane Util. Factor							
Frt							
Flt Protected							
Satd. Flow (prot)							
Flt Permitted							
Satd. Flow (perm)							
Right Turn on Red							
Satd. Flow (RTOR)							
Link Speed (mph)							
Link Distance (ft)							
Travel Time (s)							
Peak Hour Factor							
Heavy Vehicles (%)							
Adj. Flow (vph)							
Shared Lane Traffic (%)							
Lane Group Flow (vph)							
Enter Blocked Intersection							
Lane Alignment							
Median Width(ft)							
Link Offset(ft)							
Crosswalk Width(ft)							
Two way Left Turn Lane							
Headway Factor							
Turning Speed (mph)							
Number of Detectors							
Detector Template							
Leading Detector (ft)							
Trailing Detector (ft)							
Detector 1 Position(ft)							
Detector 1 Size(ft)							
Detector 1 Type							
Detector 1 Channel							
Detector 1 Extend (s)							
Detector 1 Queue (s)							
Detector 1 Delay (s)							
Turn Type							
Protected Phases	1	2	3	5	10	11	13
Permitted Phases							
Detector Phase							
Switch Phase							
Minimum Initial (s)	7.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	12.0	10.0	10.5	10.0	10.0	10.0	10.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (s)				11.0	19.0		30.0	30.0		30.0	30.0	
Total Split (%)				9.2%	15.8%		25.0%	25.0%		25.0%	25.0%	
Maximum Green (s)				6.0	14.0		15.0	15.0		15.0	15.0	
Yellow Time (s)				3.0	3.0		3.0	3.0		3.0	3.0	
All-Red Time (s)				2.0	2.0		12.0	12.0		12.0	12.0	
Lost Time Adjust (s)				0.0	0.0			0.0		0.0	0.0	
Total Lost Time (s)				5.0	5.0			15.0		15.0	15.0	
Lead/Lag				Lead	Lead							
Lead-Lag Optimize?				Yes	Yes							
Vehicle Extension (s)				3.0	4.0		4.0	4.0		4.0	4.0	
Recall Mode				None	None		None	None		None	None	
Act Effct Green (s)		63.7		5.9	12.3			15.1		15.1	15.1	
Actuated g/C Ratio		0.63		0.06	0.12			0.15		0.15	0.15	
v/c Ratio		0.18		0.10	0.17			0.08		1.23	0.61	
Control Delay (s/veh)		0.6		54.2	43.4			0.5		176.3	11.0	
Queue Delay		0.2		0.0	0.0			0.0		0.0	0.0	
Total Delay (s/veh)		0.8		54.2	43.4			0.5		176.3	11.0	
LOS		A		D	D			A		F	B	
Approach Delay (s/veh)		0.8			44.4			0.5			85.2	
Approach LOS		A			D			A			F	

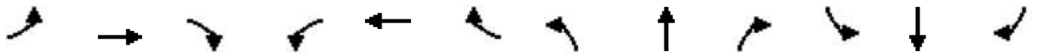
Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 101.7			
Natural Cycle: 100			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 1.23			
Intersection Signal Delay (s/veh): 49.2		Intersection LOS: D	
Intersection Capacity Utilization 43.4%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 4: Covanta Driveway/I-676 SB Off-Ramp & Morgan Boulevard



Lane Group	Ø1	Ø2	Ø3	Ø5	Ø10	Ø11	Ø13
Total Split (s)	30.0	10.0	30.0	40.0	10.0	10.0	29.0
Total Split (%)	25%	8%	25%	33%	8%	8%	24%
Maximum Green (s)	25.0	5.0	25.0	35.0	5.0	5.0	24.0
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)							
Total Lost Time (s)							
Lead/Lag	Lead	Lag			Lag	Lag	
Lead-Lag Optimize?	Yes	Yes			Yes	Yes	
Vehicle Extension (s)	4.0	4.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	Max	None	None	None	None	None
Act Effct Green (s)							
Actuated g/C Ratio							
v/c Ratio							
Control Delay (s/veh)							
Queue Delay							
Total Delay (s/veh)							
LOS							
Approach Delay (s/veh)							
Approach LOS							

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	211	0	0	226	16	49	109	0	17	0	214
Future Volume (veh/h)	0	211	0	0	226	16	49	109	0	17	0	214
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	0	1844	0	0	1828	1950	1113	1889	0	1859	1950	1920
Adj Flow Rate, veh/h	0	281	0	0	246	17	58	128	0	18	0	100
Peak Hour Factor	0.75	0.75	0.75	0.92	0.92	0.92	0.85	0.85	0.85	0.95	0.95	0.95
Percent Heavy Veh, %	0	7	0	0	8	0	55	4	0	6	0	2
Cap, veh/h	0	1950	0	0	1836	126	147	263		23	0	128
Arrive On Green	0.00	0.56	0.00	0.00	0.56	0.56	0.14	0.14	0.00	0.09	0.00	0.09
Sat Flow, veh/h	0	3687	0	0	3389	226	1060	1889	0	256	0	1424
Grp Volume(v), veh/h	0	281	0	0	129	134	58	128	0	118	0	0
Grp Sat Flow(s),veh/h/ln	0	1751	0	0	1737	1788	1060	1889	0	1681	0	0
Q Serve(g_s), s	0.0	2.7	0.0	0.0	2.5	2.5	3.5	4.4	0.0	4.8	0.0	0.0
Cycle Q Clear(g_c), s	0.0	2.7	0.0	0.0	2.5	2.5	3.5	4.4	0.0	4.8	0.0	0.0
Prop In Lane	0.00		0.00	0.00		0.13	1.00		0.00	0.15		0.85
Lane Grp Cap(c), veh/h	0	1950	0	0	967	995	147	263		151	0	0
V/C Ratio(X)	0.00	0.14	0.00	0.00	0.13	0.13	0.39	0.49		0.78	0.00	0.00
Avail Cap(c_a), veh/h	0	1950	0	0	967	995	258	459		168	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.77	0.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	7.5	0.0	0.0	7.4	7.4	27.4	27.8	0.0	31.2	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.0	0.3	0.3	1.7	1.4	0.0	19.0	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.9	0.0	0.0	0.9	0.9	0.9	2.0	0.0	2.7	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	7.6	0.0	0.0	7.7	7.7	29.1	29.2	0.0	50.1	0.0	0.0
LnGrp LOS		A			A	A	C	C		D		
Approach Vol, veh/h		281			263			186			118	
Approach Delay, s/veh		7.6			7.7			29.2			50.1	
Approach LOS		A			A			C			D	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	14.7	44.0	11.3	44.0
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	17.0	31.0	7.0	31.0
Max Q Clear Time (g_c+I1), s	6.4	0.0	6.8	0.0
Green Ext Time (p_c), s	0.5	0.0	0.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	18.3
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

HOLTEC TECHNOLOGY CENTER ROAD WIDENING AND BUILDING EXPANSION

APPENDIX C

2027 No-Build Synchro Analysis Worksheets

Intersection	
Int Delay, s/veh	3.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	1	15	8	3	14	59	2	106	9	42	60	3
Future Vol, veh/h	1	15	8	3	14	59	2	106	9	42	60	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	90	90	90	90	72	72	72	86	86	86
Heavy Vehicles, %	0	36	13	0	31	5	50	16	11	8	26	0
Mvmt Flow	1	16	9	3	16	66	3	147	13	49	70	3

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	330	334	72	334	330	153	73	0	0	160	0	0
Stage 1	169	169	-	159	159	-	-	-	-	-	-	-
Stage 2	161	165	-	175	171	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.86	6.33	7.1	6.81	6.25	4.6	-	-	4.18	-	-
Critical Hdwy Stg 1	6.1	5.86	-	6.1	5.81	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.86	-	6.1	5.81	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4.324	3.417	3.5	4.279	3.345	2.65	-	-	2.272	-	-
Pot Cap-1 Maneuver	627	534	961	623	545	885	1271	-	-	1384	-	-
Stage 1	837	699	-	848	714	-	-	-	-	-	-	-
Stage 2	846	701	-	831	706	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	542	514	961	576	524	885	1271	-	-	1384	-	-
Mov Cap-2 Maneuver	542	514	-	576	524	-	-	-	-	-	-	-
Stage 1	807	673	-	846	713	-	-	-	-	-	-	-
Stage 2	765	700	-	775	680	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	11.11	10.25	0.13	3.08
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	30	-	-	614	770	713	-	-
HCM Lane V/C Ratio	0.002	-	-	0.042	0.11	0.035	-	-
HCM Ctrl Dly (s/v)	7.8	0	-	11.1	10.2	7.7	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.4	0.1	-	-

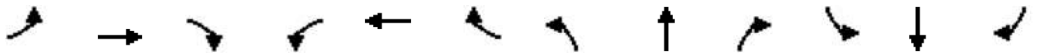
Intersection	
Int Delay, s/veh	2.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	67	10	41	105	14	6
Future Vol, veh/h	67	10	41	105	14	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Stop
Storage Length	-	-	175	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	84	84	85	85	61	61
Heavy Vehicles, %	20	20	23	21	8	33
Mvmt Flow	80	12	48	124	23	10

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	92	0	306	86
Stage 1	-	-	-	-	86	-
Stage 2	-	-	-	-	220	-
Critical Hdwy	-	-	4.33	-	6.48	6.53
Critical Hdwy Stg 1	-	-	-	-	5.48	-
Critical Hdwy Stg 2	-	-	-	-	5.48	-
Follow-up Hdwy	-	-	2.407	-	3.572	3.597
Pot Cap-1 Maneuver	-	-	1381	-	674	894
Stage 1	-	-	-	-	923	-
Stage 2	-	-	-	-	803	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1381	-	650	894
Mov Cap-2 Maneuver	-	-	-	-	650	-
Stage 1	-	-	-	-	923	-
Stage 2	-	-	-	-	775	-

Approach	EB	WB	NB
HCM Ctrl Dly, s/v	0	2.16	9.03
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	927	-	-	1381	-
HCM Lane V/C Ratio	0.035	-	-	0.035	-
HCM Ctrl Dly (s/v)	9	-	-	7.7	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-



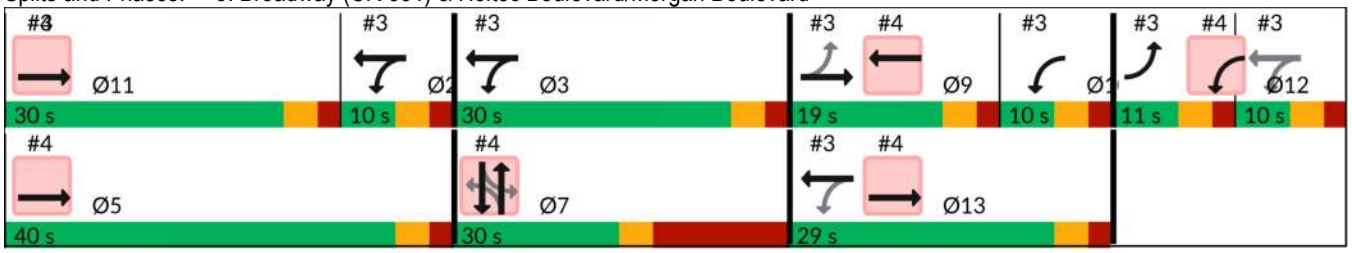
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	3	0	76	162	86	3	60	51	52	32	0
Future Volume (vph)	1	3	0	76	162	86	3	60	51	52	32	0
Ideal Flow (vphpl)	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Storage Length (ft)	190		0	100		0	315		0	375		0
Storage Lanes	1		0	1		0	1		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt					0.948				0.850			
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1852	3167	0	1278	3307	0	1852	1773	1237	1531	1585	0
Flt Permitted	0.567			0.754			0.730			0.706		
Satd. Flow (perm)	1106	3167	0	1014	3307	0	1424	1773	1237	1138	1585	0
Right Turn on Red			Yes			Yes			No			Yes
Satd. Flow (RTOR)					105							
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		520			173			434			525	
Travel Time (s)		14.2			4.7			11.8			14.3	
Peak Hour Factor	0.50	0.50	0.50	0.82	0.82	0.82	0.76	0.76	0.76	0.78	0.78	0.78
Heavy Vehicles (%)	0%	17%	0%	45%	1%	16%	0%	10%	34%	21%	23%	0%
Adj. Flow (vph)	2	6	0	93	198	105	4	79	67	67	41	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	2	6	0	93	303	0	4	79	67	67	41	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		-2			2			-6			6	
Crosswalk Width(ft)		36			42			32			30	
Two way Left Turn Lane												
Headway Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	1		1	1		1	1	1	1	1	
Detector Template	Left	Thru		Left	Thru		Left	Thru	Right	Left	Thru	
Leading Detector (ft)	50	50		50	50		50	50	50	50	50	
Trailing Detector (ft)	-10	-10		-10	-10		-10	-10	-10	-10	-10	
Detector 1 Position(ft)	-10	-10		-10	-10		-10	-10	-10	-10	-10	
Detector 1 Size(ft)	60	60		60	60		60	60	60	60	60	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Turn Type	pm+pt	NA		custom	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	12	9		10 2 3	2 3 13			1			1	
Permitted Phases	9			11 13	2 11		1		1	1		
Detector Phase	12	9		10 2 3	2 3 13		1	1	1	1	1	
Switch Phase												
Minimum Initial (s)	5.0	7.0					7.0	7.0	7.0	7.0	7.0	
Minimum Split (s)	10.0	12.0					12.0	12.0	12.0	12.0	12.0	

Lane Group	Ø2	Ø3	Ø5	Ø7	Ø10	Ø11	Ø13
Lane Configurations							
Traffic Volume (vph)							
Future Volume (vph)							
Ideal Flow (vphpl)							
Storage Length (ft)							
Storage Lanes							
Taper Length (ft)							
Lane Util. Factor							
Frt							
Flt Protected							
Satd. Flow (prot)							
Flt Permitted							
Satd. Flow (perm)							
Right Turn on Red							
Satd. Flow (RTOR)							
Link Speed (mph)							
Link Distance (ft)							
Travel Time (s)							
Peak Hour Factor							
Heavy Vehicles (%)							
Adj. Flow (vph)							
Shared Lane Traffic (%)							
Lane Group Flow (vph)							
Enter Blocked Intersection							
Lane Alignment							
Median Width(ft)							
Link Offset(ft)							
Crosswalk Width(ft)							
Two way Left Turn Lane							
Headway Factor							
Turning Speed (mph)							
Number of Detectors							
Detector Template							
Leading Detector (ft)							
Trailing Detector (ft)							
Detector 1 Position(ft)							
Detector 1 Size(ft)							
Detector 1 Type							
Detector 1 Channel							
Detector 1 Extend (s)							
Detector 1 Queue (s)							
Detector 1 Delay (s)							
Turn Type							
Protected Phases	2	3	5	7	10	11	13
Permitted Phases							
Detector Phase							
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	7.0	5.0	5.0	5.0
Minimum Split (s)	10.0	10.0	10.0	22.5	10.0	10.0	10.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (s)	11.0	19.0					30.0	30.0	30.0	30.0	30.0	
Total Split (%)	9.2%	15.8%					25.0%	25.0%	25.0%	25.0%	25.0%	
Maximum Green (s)	6.0	14.0					25.0	25.0	25.0	25.0	25.0	
Yellow Time (s)	3.0	3.0					3.0	3.0	3.0	3.0	3.0	
All-Red Time (s)	2.0	2.0					2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0					0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	5.0	5.0					5.0	5.0	5.0	5.0	5.0	
Lead/Lag	Lead	Lead					Lead	Lead	Lead	Lead	Lead	
Lead-Lag Optimize?	Yes	Yes					Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	3.0	4.0					4.0	4.0	4.0	4.0	4.0	
Recall Mode	None	None					None	None	None	None	None	
Act Effct Green (s)	19.0	12.9		60.5	69.0		12.5	12.5	12.5	12.5	12.5	
Actuated g/C Ratio	0.20	0.13		0.62	0.71		0.13	0.13	0.13	0.13	0.13	
v/c Ratio	0.01	0.01		0.13	0.13		0.02	0.35	0.42	0.46	0.20	
Control Delay (s/veh)	28.0	42.7		1.6	0.2		40.0	45.6	50.2	52.5	42.9	
Queue Delay	0.0	0.0		0.4	0.5		0.0	0.0	0.0	0.0	0.0	
Total Delay (s/veh)	28.0	42.7		1.9	0.6		40.0	45.6	50.2	52.5	42.9	
LOS	C	D		A	A		D	D	D	D	D	
Approach Delay (s/veh)		39.0			0.9			47.5			48.9	
Approach LOS		D			A			D			D	

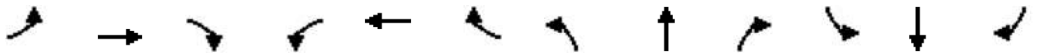
Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 97.3			
Natural Cycle: 90			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.68			
Intersection Signal Delay (s/veh): 19.8		Intersection LOS: B	
Intersection Capacity Utilization 30.0%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 3: Broadway (CR 551) & Holtec Boulevard/Morgan Boulevard



Lane Group	Ø2	Ø3	Ø5	Ø7	Ø10	Ø11	Ø13
Total Split (s)	10.0	30.0	40.0	30.0	10.0	10.0	29.0
Total Split (%)	8%	25%	33%	25%	8%	8%	24%
Maximum Green (s)	5.0	25.0	35.0	15.0	5.0	5.0	24.0
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
All-Red Time (s)	2.0	2.0	2.0	12.0	2.0	2.0	2.0
Lost Time Adjust (s)							
Total Lost Time (s)							
Lead/Lag	Lag				Lag	Lag	
Lead-Lag Optimize?	Yes				Yes	Yes	
Vehicle Extension (s)	4.0	3.0	3.0	4.0	3.0	3.0	3.0
Recall Mode	Max	None	None	None	None	None	None
Act Effct Green (s)							
Actuated g/C Ratio							
v/c Ratio							
Control Delay (s/veh)							
Queue Delay							
Total Delay (s/veh)							
LOS							
Approach Delay (s/veh)							
Approach LOS							

Intersection Summary



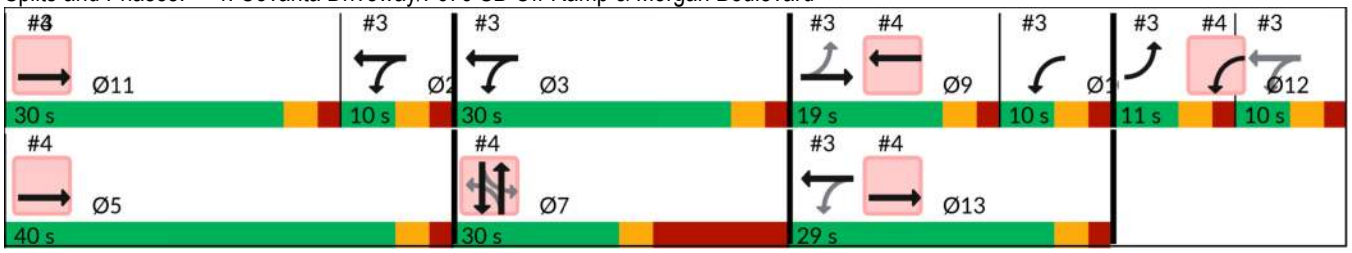
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	105	2	13	204	0	4	0	17	98	5	94
Future Volume (vph)	0	105	2	13	204	0	4	0	17	98	5	94
Ideal Flow (vphpl)	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Storage Length (ft)	0		0	115		0	0		0	250		0
Storage Lanes	0		0	1		0	0		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.998						0.890			0.858	
Flt Protected				0.950				0.991		0.950		
Satd. Flow (prot)	0	2711	0	1012	3088	0	0	932	0	1654	1424	0
Flt Permitted				0.950				0.905		0.736		
Satd. Flow (perm)	0	2711	0	1012	3088	0	0	851	0	1281	1424	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2						245			124	
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		173			781			270			419	
Travel Time (s)		4.7			21.3			7.4			11.4	
Peak Hour Factor	0.88	0.88	0.88	0.85	0.85	0.85	0.63	0.63	0.63	0.76	0.76	0.76
Heavy Vehicles (%)	0%	37%	0%	83%	20%	0%	100%	0%	81%	12%	80%	14%
Adj. Flow (vph)	0	119	2	15	240	0	6	0	27	129	7	124
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	121	0	15	240	0	0	33	0	129	131	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			12	
Link Offset(ft)		0			-4			0			4	
Crosswalk Width(ft)		16			38			22			26	
Two way Left Turn Lane												
Headway Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors		1		1	1			1		1	1	
Detector Template		Thru		Left	Thru			Thru		Left	Thru	
Leading Detector (ft)		50		50	50			50		50	50	
Trailing Detector (ft)		-10		-10	-10			-10		-10	-10	
Detector 1 Position(ft)		-10		-10	-10			-10		-10	-10	
Detector 1 Size(ft)		60		60	60			60		60	60	
Detector 1 Type		Cl+Ex		Cl+Ex	Cl+Ex			Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Detector 1 Queue (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Detector 1 Delay (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Turn Type		NA		Prot	NA		Perm	NA		Perm	NA	
Protected Phases		5 13 11		12	9			7			7	
Permitted Phases							7			7	7	
Detector Phase		5 13 11		12	9		7	7		7	7	
Switch Phase												
Minimum Initial (s)				5.0	7.0		7.0	7.0		7.0	7.0	
Minimum Split (s)				10.0	12.0		22.5	22.5		22.5	22.5	

Lane Group	Ø1	Ø2	Ø3	Ø5	Ø10	Ø11	Ø13
Lane Configurations							
Traffic Volume (vph)							
Future Volume (vph)							
Ideal Flow (vphpl)							
Storage Length (ft)							
Storage Lanes							
Taper Length (ft)							
Lane Util. Factor							
Frt							
Flt Protected							
Satd. Flow (prot)							
Flt Permitted							
Satd. Flow (perm)							
Right Turn on Red							
Satd. Flow (RTOR)							
Link Speed (mph)							
Link Distance (ft)							
Travel Time (s)							
Peak Hour Factor							
Heavy Vehicles (%)							
Adj. Flow (vph)							
Shared Lane Traffic (%)							
Lane Group Flow (vph)							
Enter Blocked Intersection							
Lane Alignment							
Median Width(ft)							
Link Offset(ft)							
Crosswalk Width(ft)							
Two way Left Turn Lane							
Headway Factor							
Turning Speed (mph)							
Number of Detectors							
Detector Template							
Leading Detector (ft)							
Trailing Detector (ft)							
Detector 1 Position(ft)							
Detector 1 Size(ft)							
Detector 1 Type							
Detector 1 Channel							
Detector 1 Extend (s)							
Detector 1 Queue (s)							
Detector 1 Delay (s)							
Turn Type							
Protected Phases	1	2	3	5	10	11	13
Permitted Phases							
Detector Phase							
Switch Phase							
Minimum Initial (s)	7.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	12.0	10.0	10.0	10.0	10.0	10.0	10.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (s)				11.0	19.0		30.0	30.0		30.0	30.0	
Total Split (%)				9.2%	15.8%		25.0%	25.0%		25.0%	25.0%	
Maximum Green (s)				6.0	14.0		15.0	15.0		15.0	15.0	
Yellow Time (s)				3.0	3.0		3.0	3.0		3.0	3.0	
All-Red Time (s)				2.0	2.0		12.0	12.0		12.0	12.0	
Lost Time Adjust (s)				0.0	0.0			0.0		0.0	0.0	
Total Lost Time (s)				5.0	5.0			15.0		15.0	15.0	
Lead/Lag				Lead	Lead							
Lead-Lag Optimize?				Yes	Yes							
Vehicle Extension (s)				3.0	4.0		4.0	4.0		4.0	4.0	
Recall Mode				None	None		None	None		None	None	
Act Effct Green (s)		56.9		6.1	12.9			14.4		14.4	14.4	
Actuated g/C Ratio		0.58		0.06	0.13			0.15		0.15	0.15	
v/c Ratio		0.08		0.24	0.59			0.10		0.68	0.41	
Control Delay (s/veh)		0.4		59.4	48.7			0.6		62.2	13.7	
Queue Delay		0.1		0.0	0.0			0.0		0.0	0.0	
Total Delay (s/veh)		0.5		59.4	48.7			0.6		62.2	13.7	
LOS		A		E	D			A		E	B	
Approach Delay (s/veh)		0.5			49.3			0.6			37.7	
Approach LOS		A			D			A			D	

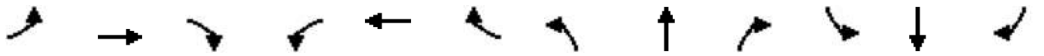
Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 97.3			
Natural Cycle: 90			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.68			
Intersection Signal Delay (s/veh): 33.6		Intersection LOS: C	
Intersection Capacity Utilization 36.0%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 4: Covanta Driveway/I-676 SB Off-Ramp & Morgan Boulevard



Lane Group	Ø1	Ø2	Ø3	Ø5	Ø10	Ø11	Ø13
Total Split (s)	30.0	10.0	30.0	40.0	10.0	10.0	29.0
Total Split (%)	25%	8%	25%	33%	8%	8%	24%
Maximum Green (s)	25.0	5.0	25.0	35.0	5.0	5.0	24.0
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)							
Total Lost Time (s)							
Lead/Lag	Lead	Lag			Lag	Lag	
Lead-Lag Optimize?	Yes	Yes			Yes	Yes	
Vehicle Extension (s)	4.0	4.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	Max	None	None	None	None	None
Act Effct Green (s)							
Actuated g/C Ratio							
v/c Ratio							
Control Delay (s/veh)							
Queue Delay							
Total Delay (s/veh)							
LOS							
Approach Delay (s/veh)							
Approach LOS							

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	135	0	0	223	10	165	100	0	9	0	160
Future Volume (veh/h)	0	135	0	0	223	10	165	100	0	9	0	160
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	0	1844	0	0	1813	1752	1463	1844	0	1631	1950	1844
Adj Flow Rate, veh/h	0	167	0	0	245	11	158	173	0	11	0	113
Peak Hour Factor	0.81	0.81	0.81	0.91	0.91	0.91	0.84	0.84	0.84	0.84	0.84	0.84
Percent Heavy Veh, %	0	7	0	0	9	13	32	7	0	21	0	7
Cap, veh/h	0	1908	0	0	1829	82	207	274		14	0	140
Arrive On Green	0.00	0.54	0.00	0.00	0.54	0.54	0.15	0.15	0.00	0.09	0.00	0.09
Sat Flow, veh/h	0	3687	0	0	3449	150	1394	1844	0	148	0	1521
Grp Volume(v), veh/h	0	167	0	0	125	131	158	173	0	124	0	0
Grp Sat Flow(s),veh/h/ln	0	1751	0	0	1722	1786	1394	1844	0	1669	0	0
Q Serve(g_s), s	0.0	1.6	0.0	0.0	2.5	2.5	7.6	6.2	0.0	5.1	0.0	0.0
Cycle Q Clear(g_c), s	0.0	1.6	0.0	0.0	2.5	2.5	7.6	6.2	0.0	5.1	0.0	0.0
Prop In Lane	0.00		0.00	0.00		0.08	1.00		0.00	0.09		0.91
Lane Grp Cap(c), veh/h	0	1908	0	0	938	973	207	274		154	0	0
V/C Ratio(X)	0.00	0.09	0.00	0.00	0.13	0.13	0.76	0.63		0.80	0.00	0.00
Avail Cap(c_a), veh/h	0	1908	0	0	938	973	338	448		167	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.93	0.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	7.6	0.0	0.0	7.8	7.8	28.6	28.0	0.0	31.1	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.0	0.3	0.3	5.7	2.4	0.0	22.8	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.6	0.0	0.0	0.9	0.9	2.8	2.8	0.0	3.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	7.7	0.0	0.0	8.1	8.1	34.3	30.4	0.0	54.0	0.0	0.0
LnGrp LOS		A			A	A	C	C		D		
Approach Vol, veh/h		167			256			331			124	
Approach Delay, s/veh		7.7			8.1			32.3			54.0	
Approach LOS		A			A			C			D	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	15.4	43.1	11.5	43.1
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	17.0	31.0	7.0	31.0
Max Q Clear Time (g_c+I1), s	9.6	0.0	7.1	0.0
Green Ext Time (p_c), s	0.8	0.0	0.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	23.6
HCM 7th LOS	C

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	4.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	3	10	18	18	12	62	3	92	18	76	186	5
Future Vol, veh/h	3	10	18	18	12	62	3	92	18	76	186	5
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	63	63	63	73	73	73	77	77	77	88	88	88
Heavy Vehicles, %	0	20	6	6	27	2	0	10	0	0	7	0
Mvmt Flow	5	16	29	25	16	85	4	119	23	86	211	6

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	522	538	214	531	529	131	217	0	0	143	0	0
Stage 1	387	387	-	139	139	-	-	-	-	-	-	-
Stage 2	135	151	-	392	390	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.7	6.26	7.16	6.77	6.22	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.7	-	6.16	5.77	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.7	-	6.16	5.77	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4.18	3.354	3.554	4.243	3.318	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	468	426	816	453	422	918	1365	-	-	1452	-	-
Stage 1	641	579	-	855	736	-	-	-	-	-	-	-
Stage 2	873	740	-	625	567	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	379	396	816	391	392	918	1365	-	-	1452	-	-
Mov Cap-2 Maneuver	379	396	-	391	392	-	-	-	-	-	-	-
Stage 1	597	540	-	852	734	-	-	-	-	-	-	-
Stage 2	772	737	-	545	528	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	12.03	12.03	0.2	2.17
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	46	-	-	561	638	510	-	-
HCM Lane V/C Ratio	0.003	-	-	0.088	0.198	0.059	-	-
HCM Ctrl Dly (s/v)	7.6	0	-	12	12	7.6	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.3	0.7	0.2	-	-

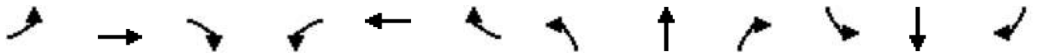
Intersection	
Int Delay, s/veh	2.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	257	8	2	89	12	39
Future Vol, veh/h	257	8	2	89	12	39
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Stop
Storage Length	-	-	175	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	87	87	84	84	41	41
Heavy Vehicles, %	4	0	0	9	9	3
Mvmt Flow	295	9	2	106	29	95

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	305	0	411	300
Stage 1	-	-	-	-	300	-
Stage 2	-	-	-	-	111	-
Critical Hdwy	-	-	4.1	-	6.49	6.23
Critical Hdwy Stg 1	-	-	-	-	5.49	-
Critical Hdwy Stg 2	-	-	-	-	5.49	-
Follow-up Hdwy	-	-	2.2	-	3.581	3.327
Pot Cap-1 Maneuver	-	-	1268	-	584	737
Stage 1	-	-	-	-	736	-
Stage 2	-	-	-	-	897	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1268	-	583	737
Mov Cap-2 Maneuver	-	-	-	-	583	-
Stage 1	-	-	-	-	736	-
Stage 2	-	-	-	-	895	-

Approach	EB	WB	NB
HCM Ctrl Dly, s/v	0	0.17	9.32
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	958	-	-	1268	-
HCM Lane V/C Ratio	0.13	-	-	0.002	-
HCM Ctrl Dly (s/v)	9.3	-	-	7.8	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0.4	-	-	0	-



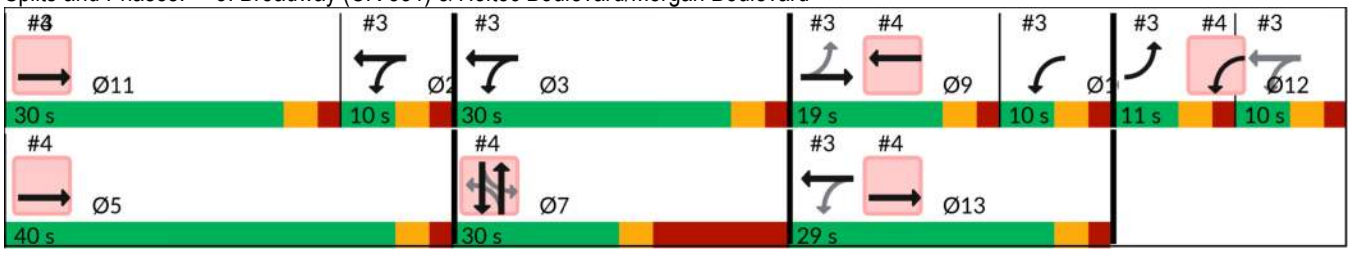
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	169	27	279	7	40	0	45	64	96	177	2
Future Volume (vph)	1	169	27	279	7	40	0	45	64	96	177	2
Ideal Flow (vphpl)	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Storage Length (ft)	190		0	100		0	315		0	375		0
Storage Lanes	1		0	1		0	1		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.979			0.873				0.850		0.998	
Flt Protected	0.950			0.950						0.950		
Satd. Flow (prot)	1852	3596	0	1816	3030	0	1950	1789	1192	1764	1872	0
Flt Permitted	0.717			0.540						0.723		
Satd. Flow (perm)	1398	3596	0	1032	3030	0	1950	1789	1192	1343	1872	0
Right Turn on Red			Yes			Yes			No			Yes
Satd. Flow (RTOR)		12			49							
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		520			173			434			525	
Travel Time (s)		14.2			4.7			11.8			14.3	
Peak Hour Factor	0.80	0.80	0.80	0.81	0.81	0.81	0.87	0.87	0.87	0.90	0.90	0.90
Heavy Vehicles (%)	0%	1%	0%	2%	0%	8%	0%	9%	39%	5%	4%	0%
Adj. Flow (vph)	1	211	34	344	9	49	0	52	74	107	197	2
Shared Lane Traffic (%)												
Lane Group Flow (vph)	1	245	0	344	58	0	0	52	74	107	199	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		-2			2			-6			6	
Crosswalk Width(ft)		36			42			32			30	
Two way Left Turn Lane												
Headway Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	1		1	1		1	1	1	1	1	
Detector Template	Left	Thru		Left	Thru		Left	Thru	Right	Left	Thru	
Leading Detector (ft)	50	50		50	50		50	50	50	50	50	
Trailing Detector (ft)	-10	-10		-10	-10		-10	-10	-10	-10	-10	
Detector 1 Position(ft)	-10	-10		-10	-10		-10	-10	-10	-10	-10	
Detector 1 Size(ft)	60	60		60	60		60	60	60	60	60	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Turn Type	pm+pt	NA		custom	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	12	9		10 2 3	2 3 13			1			1	
Permitted Phases	9			11 13	2 11		1		1	1		
Detector Phase	12	9		10 2 3	2 3 13		1	1	1	1	1	
Switch Phase												
Minimum Initial (s)	5.0	7.0					7.0	7.0	7.0	7.0	7.0	
Minimum Split (s)	10.0	12.0					12.0	12.0	12.0	12.0	12.0	

Lane Group	Ø2	Ø3	Ø5	Ø7	Ø10	Ø11	Ø13
Lane Configurations							
Traffic Volume (vph)							
Future Volume (vph)							
Ideal Flow (vphpl)							
Storage Length (ft)							
Storage Lanes							
Taper Length (ft)							
Lane Util. Factor							
Frt							
Flt Protected							
Satd. Flow (prot)							
Flt Permitted							
Satd. Flow (perm)							
Right Turn on Red							
Satd. Flow (RTOR)							
Link Speed (mph)							
Link Distance (ft)							
Travel Time (s)							
Peak Hour Factor							
Heavy Vehicles (%)							
Adj. Flow (vph)							
Shared Lane Traffic (%)							
Lane Group Flow (vph)							
Enter Blocked Intersection							
Lane Alignment							
Median Width(ft)							
Link Offset(ft)							
Crosswalk Width(ft)							
Two way Left Turn Lane							
Headway Factor							
Turning Speed (mph)							
Number of Detectors							
Detector Template							
Leading Detector (ft)							
Trailing Detector (ft)							
Detector 1 Position(ft)							
Detector 1 Size(ft)							
Detector 1 Type							
Detector 1 Channel							
Detector 1 Extend (s)							
Detector 1 Queue (s)							
Detector 1 Delay (s)							
Turn Type							
Protected Phases	2	3	5	7	10	11	13
Permitted Phases							
Detector Phase							
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	7.0	5.0	5.0	5.0
Minimum Split (s)	10.0	10.5	10.0	22.5	10.0	10.0	10.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (s)	11.0	19.0					30.0	30.0	30.0	30.0	30.0	
Total Split (%)	9.2%	15.8%					25.0%	25.0%	25.0%	25.0%	25.0%	
Maximum Green (s)	6.0	14.0					25.0	25.0	25.0	25.0	25.0	
Yellow Time (s)	3.0	3.0					3.0	3.0	3.0	3.0	3.0	
All-Red Time (s)	2.0	2.0					2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0					0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	5.0	5.0					5.0	5.0	5.0	5.0	5.0	
Lead/Lag	Lead	Lead					Lead	Lead	Lead	Lead	Lead	
Lead-Lag Optimize?	Yes	Yes					Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	3.0	4.0					4.0	4.0	4.0	4.0	4.0	
Recall Mode	None	None					None	None	None	None	None	
Act Effct Green (s)	18.3	12.4		62.9	72.1			17.4	17.4	17.4	17.4	
Actuated g/C Ratio	0.18	0.12		0.61	0.70			0.17	0.17	0.17	0.17	
v/c Ratio	0.00	0.55		0.36	0.03			0.17	0.37	0.47	0.63	
Control Delay (s/veh)	28.0	46.4		5.4	0.5			38.4	43.8	46.2	49.3	
Queue Delay	0.0	0.0		0.9	0.0			0.0	0.0	0.0	0.0	
Total Delay (s/veh)	28.0	46.4		6.2	0.5			38.4	43.8	46.2	49.3	
LOS	C	D		A	A			D	D	D	D	
Approach Delay (s/veh)		46.3			5.4			41.6			48.2	
Approach LOS		D			A			D			D	

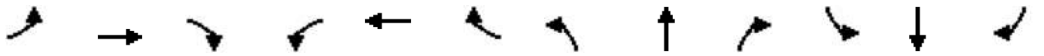
Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 102.3			
Natural Cycle: 100			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 1.30			
Intersection Signal Delay (s/veh): 31.1		Intersection LOS: C	
Intersection Capacity Utilization 45.2%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 3: Broadway (CR 551) & Holtec Boulevard/Morgan Boulevard



Lane Group	Ø2	Ø3	Ø5	Ø7	Ø10	Ø11	Ø13
Total Split (s)	10.0	30.0	40.0	30.0	10.0	10.0	29.0
Total Split (%)	8%	25%	33%	25%	8%	8%	24%
Maximum Green (s)	5.0	25.0	35.0	15.0	5.0	5.0	24.0
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
All-Red Time (s)	2.0	2.0	2.0	12.0	2.0	2.0	2.0
Lost Time Adjust (s)							
Total Lost Time (s)							
Lead/Lag	Lag				Lag	Lag	
Lead-Lag Optimize?	Yes				Yes	Yes	
Vehicle Extension (s)	4.0	3.0	3.0	4.0	3.0	3.0	3.0
Recall Mode	Max	None	None	None	None	None	None
Act Effct Green (s)							
Actuated g/C Ratio							
v/c Ratio							
Control Delay (s/veh)							
Queue Delay							
Total Delay (s/veh)							
LOS							
Approach Delay (s/veh)							
Approach LOS							

Intersection Summary



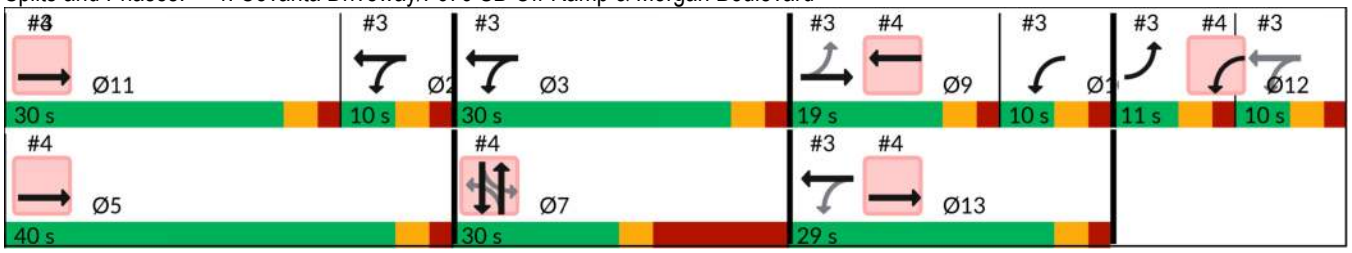
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	330	2	5	58	0	1	0	21	222	1	271
Future Volume (vph)	0	330	2	5	58	0	1	0	21	222	1	271
Ideal Flow (vphpl)	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Storage Length (ft)	0		0	115		0	0		0	250		0
Storage Lanes	0		0	1		0	0		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.999						0.870			0.850	
Flt Protected				0.950				0.998		0.950		
Satd. Flow (prot)	0	3389	0	1158	3529	0	0	1192	0	1799	1641	0
Flt Permitted				0.950				0.634		0.738		
Satd. Flow (perm)	0	3389	0	1158	3529	0	0	757	0	1397	1641	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		1						245			327	
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		173			781			270			419	
Travel Time (s)		4.7			21.3			7.4			11.4	
Peak Hour Factor	0.82	0.82	0.82	0.76	0.76	0.76	0.75	0.75	0.75	0.83	0.83	0.83
Heavy Vehicles (%)	0%	9%	50%	60%	5%	0%	100%	0%	40%	3%	0%	1%
Adj. Flow (vph)	0	402	2	7	76	0	1	0	28	267	1	327
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	404	0	7	76	0	0	29	0	267	328	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			12	
Link Offset(ft)		0			-4			0			4	
Crosswalk Width(ft)		16			38			22			26	
Two way Left Turn Lane												
Headway Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors		1		1	1			1		1	1	
Detector Template		Thru		Left	Thru			Thru		Left	Thru	
Leading Detector (ft)		50		50	50			50		50	50	
Trailing Detector (ft)		-10		-10	-10			-10		-10	-10	
Detector 1 Position(ft)		-10		-10	-10			-10		-10	-10	
Detector 1 Size(ft)		60		60	60			60		60	60	
Detector 1 Type		Cl+Ex		Cl+Ex	Cl+Ex			Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Detector 1 Queue (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Detector 1 Delay (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Turn Type		NA		Prot	NA		Perm	NA		Perm	NA	
Protected Phases		5 13 11		12	9			7			7	
Permitted Phases							7			7	7	
Detector Phase		5 13 11		12	9		7	7		7	7	
Switch Phase												
Minimum Initial (s)				5.0	7.0		7.0	7.0		7.0	7.0	
Minimum Split (s)				10.0	12.0		22.5	22.5		22.5	22.5	

Lane Group	Ø1	Ø2	Ø3	Ø5	Ø10	Ø11	Ø13
Lane Configurations							
Traffic Volume (vph)							
Future Volume (vph)							
Ideal Flow (vphpl)							
Storage Length (ft)							
Storage Lanes							
Taper Length (ft)							
Lane Util. Factor							
Frt							
Flt Protected							
Satd. Flow (prot)							
Flt Permitted							
Satd. Flow (perm)							
Right Turn on Red							
Satd. Flow (RTOR)							
Link Speed (mph)							
Link Distance (ft)							
Travel Time (s)							
Peak Hour Factor							
Heavy Vehicles (%)							
Adj. Flow (vph)							
Shared Lane Traffic (%)							
Lane Group Flow (vph)							
Enter Blocked Intersection							
Lane Alignment							
Median Width(ft)							
Link Offset(ft)							
Crosswalk Width(ft)							
Two way Left Turn Lane							
Headway Factor							
Turning Speed (mph)							
Number of Detectors							
Detector Template							
Leading Detector (ft)							
Trailing Detector (ft)							
Detector 1 Position(ft)							
Detector 1 Size(ft)							
Detector 1 Type							
Detector 1 Channel							
Detector 1 Extend (s)							
Detector 1 Queue (s)							
Detector 1 Delay (s)							
Turn Type							
Protected Phases	1	2	3	5	10	11	13
Permitted Phases							
Detector Phase							
Switch Phase							
Minimum Initial (s)	7.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	12.0	10.0	10.5	10.0	10.0	10.0	10.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (s)				11.0	19.0		30.0	30.0		30.0	30.0	
Total Split (%)				9.2%	15.8%		25.0%	25.0%		25.0%	25.0%	
Maximum Green (s)				6.0	14.0		15.0	15.0		15.0	15.0	
Yellow Time (s)				3.0	3.0		3.0	3.0		3.0	3.0	
All-Red Time (s)				2.0	2.0		12.0	12.0		12.0	12.0	
Lost Time Adjust (s)				0.0	0.0			0.0		0.0	0.0	
Total Lost Time (s)				5.0	5.0			15.0		15.0	15.0	
Lead/Lag				Lead	Lead							
Lead-Lag Optimize?				Yes	Yes							
Vehicle Extension (s)				3.0	4.0		4.0	4.0		4.0	4.0	
Recall Mode				None	None		None	None		None	None	
Act Effct Green (s)		64.2		5.9	12.4			15.1		15.1	15.1	
Actuated g/C Ratio		0.63		0.06	0.12			0.15		0.15	0.15	
v/c Ratio		0.19		0.11	0.18			0.09		1.30	0.63	
Control Delay (s/veh)		0.6		54.4	43.6			0.5		200.9	11.1	
Queue Delay		0.2		0.0	0.0			0.0		0.0	0.0	
Total Delay (s/veh)		0.8		54.4	43.6			0.5		200.9	11.1	
LOS		A		D	D			A		F	B	
Approach Delay (s/veh)		0.8			44.5			0.5			96.3	
Approach LOS		A			D			A			F	

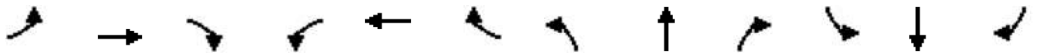
Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 102.3			
Natural Cycle: 100			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 1.30			
Intersection Signal Delay (s/veh): 55.2		Intersection LOS: E	
Intersection Capacity Utilization 44.3%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 4: Covanta Driveway/I-676 SB Off-Ramp & Morgan Boulevard



Lane Group	Ø1	Ø2	Ø3	Ø5	Ø10	Ø11	Ø13
Total Split (s)	30.0	10.0	30.0	40.0	10.0	10.0	29.0
Total Split (%)	25%	8%	25%	33%	8%	8%	24%
Maximum Green (s)	25.0	5.0	25.0	35.0	5.0	5.0	24.0
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)							
Total Lost Time (s)							
Lead/Lag	Lead	Lag			Lag	Lag	
Lead-Lag Optimize?	Yes	Yes			Yes	Yes	
Vehicle Extension (s)	4.0	4.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	Max	None	None	None	None	None
Act Effct Green (s)							
Actuated g/C Ratio							
v/c Ratio							
Control Delay (s/veh)							
Queue Delay							
Total Delay (s/veh)							
LOS							
Approach Delay (s/veh)							
Approach LOS							

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	221	0	0	236	17	51	114	0	18	0	224
Future Volume (veh/h)	0	221	0	0	236	17	51	114	0	18	0	224
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	0	1844	0	0	1828	1950	1113	1889	0	1859	1950	1920
Adj Flow Rate, veh/h	0	295	0	0	257	18	60	134	0	19	0	111
Peak Hour Factor	0.75	0.75	0.75	0.92	0.92	0.92	0.85	0.85	0.85	0.95	0.95	0.95
Percent Heavy Veh, %	0	7	0	0	8	0	55	4	0	6	0	2
Cap, veh/h	0	1927	0	0	1812	126	148	264		24	0	138
Arrive On Green	0.00	0.55	0.00	0.00	0.55	0.55	0.14	0.14	0.00	0.10	0.00	0.10
Sat Flow, veh/h	0	3687	0	0	3386	229	1060	1889	0	245	0	1434
Grp Volume(v), veh/h	0	295	0	0	135	140	60	134	0	130	0	0
Grp Sat Flow(s),veh/h/ln	0	1751	0	0	1737	1787	1060	1889	0	1680	0	0
Q Serve(g_s), s	0.0	2.9	0.0	0.0	2.6	2.7	3.6	4.6	0.0	5.3	0.0	0.0
Cycle Q Clear(g_c), s	0.0	2.9	0.0	0.0	2.6	2.7	3.6	4.6	0.0	5.3	0.0	0.0
Prop In Lane	0.00		0.00	0.00		0.13	1.00		0.00	0.15		0.85
Lane Grp Cap(c), veh/h	0	1927	0	0	955	983	148	264		161	0	0
V/C Ratio(X)	0.00	0.15	0.00	0.00	0.14	0.14	0.41	0.51		0.81	0.00	0.00
Avail Cap(c_a), veh/h	0	1927	0	0	955	983	258	459		168	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.74	0.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	7.7	0.0	0.0	7.7	7.7	27.5	27.9	0.0	31.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.0	0.3	0.3	1.8	1.5	0.0	23.5	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.0	0.0	0.0	1.0	1.0	1.0	2.1	0.0	3.2	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	7.9	0.0	0.0	8.0	8.0	29.2	29.4	0.0	54.5	0.0	0.0
LnGrp LOS		A			A	A	C	C		D		
Approach Vol, veh/h		295			275			194			130	
Approach Delay, s/veh		7.9			8.0			29.4			54.5	
Approach LOS		A			A			C			D	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	14.8	43.5	11.7	43.5
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	17.0	31.0	7.0	31.0
Max Q Clear Time (g_c+I1), s	6.6	0.0	7.3	0.0
Green Ext Time (p_c), s	0.5	0.0	0.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	19.4
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

HOLTEC TECHNOLOGY CENTER ROAD WIDENING AND BUILDING EXPANSION

APPENDIX D

2027 No-Build - Optimized Synchro Analysis Worksheets

Intersection	
Int Delay, s/veh	3.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	1	15	8	3	14	59	2	106	9	42	60	3
Future Vol, veh/h	1	15	8	3	14	59	2	106	9	42	60	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	90	90	90	90	72	72	72	86	86	86
Heavy Vehicles, %	0	36	13	0	31	5	50	16	11	8	26	0
Mvmt Flow	1	16	9	3	16	66	3	147	13	49	70	3

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	330	334	72	334	330	153	73	0	0	160	0	0
Stage 1	169	169	-	159	159	-	-	-	-	-	-	-
Stage 2	161	165	-	175	171	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.86	6.33	7.1	6.81	6.25	4.6	-	-	4.18	-	-
Critical Hdwy Stg 1	6.1	5.86	-	6.1	5.81	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.86	-	6.1	5.81	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4.324	3.417	3.5	4.279	3.345	2.65	-	-	2.272	-	-
Pot Cap-1 Maneuver	627	534	961	623	545	885	1271	-	-	1384	-	-
Stage 1	837	699	-	848	714	-	-	-	-	-	-	-
Stage 2	846	701	-	831	706	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	542	514	961	576	524	885	1271	-	-	1384	-	-
Mov Cap-2 Maneuver	542	514	-	576	524	-	-	-	-	-	-	-
Stage 1	807	673	-	846	713	-	-	-	-	-	-	-
Stage 2	765	700	-	775	680	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	11.11	10.25	0.13	3.08
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	30	-	-	614	770	713	-	-
HCM Lane V/C Ratio	0.002	-	-	0.042	0.11	0.035	-	-
HCM Ctrl Dly (s/v)	7.8	0	-	11.1	10.2	7.7	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.4	0.1	-	-

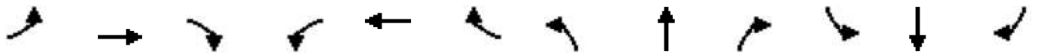
Intersection	
Int Delay, s/veh	2.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	67	10	41	105	14	6
Future Vol, veh/h	67	10	41	105	14	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Stop
Storage Length	-	-	175	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	84	84	85	85	61	61
Heavy Vehicles, %	20	20	23	21	8	33
Mvmt Flow	80	12	48	124	23	10

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	92	0	306	86
Stage 1	-	-	-	-	86	-
Stage 2	-	-	-	-	220	-
Critical Hdwy	-	-	4.33	-	6.48	6.53
Critical Hdwy Stg 1	-	-	-	-	5.48	-
Critical Hdwy Stg 2	-	-	-	-	5.48	-
Follow-up Hdwy	-	-	2.407	-	3.572	3.597
Pot Cap-1 Maneuver	-	-	1381	-	674	894
Stage 1	-	-	-	-	923	-
Stage 2	-	-	-	-	803	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1381	-	650	894
Mov Cap-2 Maneuver	-	-	-	-	650	-
Stage 1	-	-	-	-	923	-
Stage 2	-	-	-	-	775	-

Approach	EB	WB	NB
HCM Ctrl Dly, s/v	0	2.16	9.03
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	927	-	-	1381	-
HCM Lane V/C Ratio	0.035	-	-	0.035	-
HCM Ctrl Dly (s/v)	9	-	-	7.7	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-



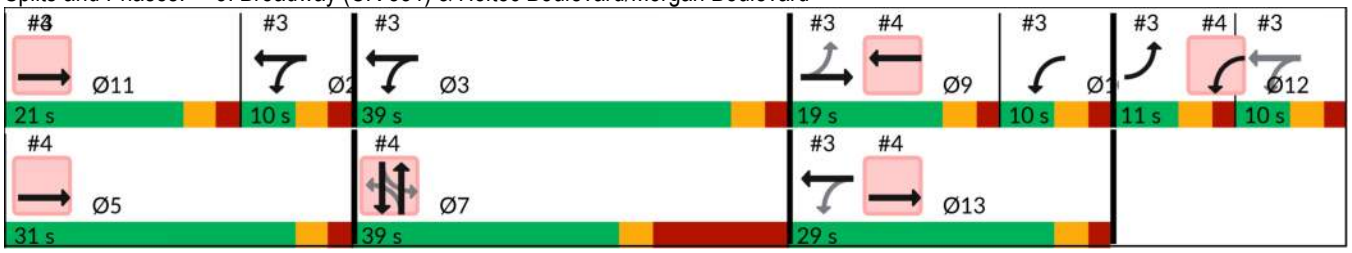
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	3	0	76	162	86	3	60	51	52	32	0
Future Volume (vph)	1	3	0	76	162	86	3	60	51	52	32	0
Ideal Flow (vphpl)	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Storage Length (ft)	190		0	100		0	315		0	375		0
Storage Lanes	1		0	1		0	1		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt					0.948				0.850			
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1852	3167	0	1278	3307	0	1852	1773	1237	1531	1585	0
Flt Permitted	0.567			0.754			0.730			0.706		
Satd. Flow (perm)	1106	3167	0	1014	3307	0	1424	1773	1237	1138	1585	0
Right Turn on Red			Yes			Yes			No			Yes
Satd. Flow (RTOR)					105							
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		520			173			434			525	
Travel Time (s)		14.2			4.7			11.8			14.3	
Peak Hour Factor	0.50	0.50	0.50	0.82	0.82	0.82	0.76	0.76	0.76	0.78	0.78	0.78
Heavy Vehicles (%)	0%	17%	0%	45%	1%	16%	0%	10%	34%	21%	23%	0%
Adj. Flow (vph)	2	6	0	93	198	105	4	79	67	67	41	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	2	6	0	93	303	0	4	79	67	67	41	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		-2			2			-6			6	
Crosswalk Width(ft)		36			42			32			30	
Two way Left Turn Lane												
Headway Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	1		1	1		1	1	1	1	1	
Detector Template	Left	Thru		Left	Thru		Left	Thru	Right	Left	Thru	
Leading Detector (ft)	50	50		50	50		50	50	50	50	50	
Trailing Detector (ft)	-10	-10		-10	-10		-10	-10	-10	-10	-10	
Detector 1 Position(ft)	-10	-10		-10	-10		-10	-10	-10	-10	-10	
Detector 1 Size(ft)	60	60		60	60		60	60	60	60	60	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Turn Type	pm+pt	NA		custom	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	12	9		10 2 3	2 3 13			1			1	
Permitted Phases	9			11 13	2 11		1		1	1		
Detector Phase	12	9		10 2 3	2 3 13		1	1	1	1	1	
Switch Phase												
Minimum Initial (s)	5.0	7.0					7.0	7.0	7.0	7.0	7.0	
Minimum Split (s)	10.0	12.0					12.0	12.0	12.0	12.0	12.0	

Lane Group	Ø2	Ø3	Ø5	Ø7	Ø10	Ø11	Ø13
Lane Configurations							
Traffic Volume (vph)							
Future Volume (vph)							
Ideal Flow (vphpl)							
Storage Length (ft)							
Storage Lanes							
Taper Length (ft)							
Lane Util. Factor							
Frt							
Flt Protected							
Satd. Flow (prot)							
Flt Permitted							
Satd. Flow (perm)							
Right Turn on Red							
Satd. Flow (RTOR)							
Link Speed (mph)							
Link Distance (ft)							
Travel Time (s)							
Peak Hour Factor							
Heavy Vehicles (%)							
Adj. Flow (vph)							
Shared Lane Traffic (%)							
Lane Group Flow (vph)							
Enter Blocked Intersection							
Lane Alignment							
Median Width(ft)							
Link Offset(ft)							
Crosswalk Width(ft)							
Two way Left Turn Lane							
Headway Factor							
Turning Speed (mph)							
Number of Detectors							
Detector Template							
Leading Detector (ft)							
Trailing Detector (ft)							
Detector 1 Position(ft)							
Detector 1 Size(ft)							
Detector 1 Type							
Detector 1 Channel							
Detector 1 Extend (s)							
Detector 1 Queue (s)							
Detector 1 Delay (s)							
Turn Type							
Protected Phases	2	3	5	7	10	11	13
Permitted Phases							
Detector Phase							
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	7.0	5.0	5.0	5.0
Minimum Split (s)	10.0	10.0	10.0	22.5	10.0	10.0	10.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (s)	11.0	19.0					21.0	21.0	21.0	21.0	21.0	
Total Split (%)	9.2%	15.8%					17.5%	17.5%	17.5%	17.5%	17.5%	
Maximum Green (s)	6.0	14.0					16.0	16.0	16.0	16.0	16.0	
Yellow Time (s)	3.0	3.0					3.0	3.0	3.0	3.0	3.0	
All-Red Time (s)	2.0	2.0					2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0					0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	5.0	5.0					5.0	5.0	5.0	5.0	5.0	
Lead/Lag	Lead	Lead					Lead	Lead	Lead	Lead	Lead	
Lead-Lag Optimize?	Yes	Yes					Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	3.0	4.0					4.0	4.0	4.0	4.0	4.0	
Recall Mode	None	None					None	None	None	None	None	
Act Effct Green (s)	19.1	13.0		62.9	71.5		12.0	12.0	12.0	12.0	12.0	
Actuated g/C Ratio	0.19	0.13		0.63	0.72		0.12	0.12	0.12	0.12	0.12	
v/c Ratio	0.01	0.01		0.12	0.13		0.02	0.37	0.45	0.49	0.21	
Control Delay (s/veh)	30.0	45.0		1.5	0.2		44.3	49.3	54.8	57.6	46.5	
Queue Delay	0.0	0.0		0.3	0.5		0.0	0.0	0.0	0.0	0.0	
Total Delay (s/veh)	30.0	45.0		1.8	0.6		44.3	49.3	54.8	57.6	46.5	
LOS	C	D		A	A		D	D	D	E	D	
Approach Delay (s/veh)		41.3			0.9			51.7			53.4	
Approach LOS		D			A			D			D	

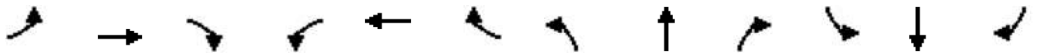
Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 99.3			
Natural Cycle: 90			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.61			
Intersection Signal Delay (s/veh): 21.4		Intersection LOS: C	
Intersection Capacity Utilization 30.0%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 3: Broadway (CR 551) & Holtec Boulevard/Morgan Boulevard



Lane Group	Ø2	Ø3	Ø5	Ø7	Ø10	Ø11	Ø13
Total Split (s)	10.0	39.0	31.0	39.0	10.0	10.0	29.0
Total Split (%)	8%	33%	26%	33%	8%	8%	24%
Maximum Green (s)	5.0	34.0	26.0	24.0	5.0	5.0	24.0
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
All-Red Time (s)	2.0	2.0	2.0	12.0	2.0	2.0	2.0
Lost Time Adjust (s)							
Total Lost Time (s)							
Lead/Lag	Lag				Lag	Lag	
Lead-Lag Optimize?	Yes				Yes	Yes	
Vehicle Extension (s)	4.0	3.0	3.0	4.0	3.0	3.0	3.0
Recall Mode	Max	None	None	None	None	None	None
Act Effct Green (s)							
Actuated g/C Ratio							
v/c Ratio							
Control Delay (s/veh)							
Queue Delay							
Total Delay (s/veh)							
LOS							
Approach Delay (s/veh)							
Approach LOS							

Intersection Summary



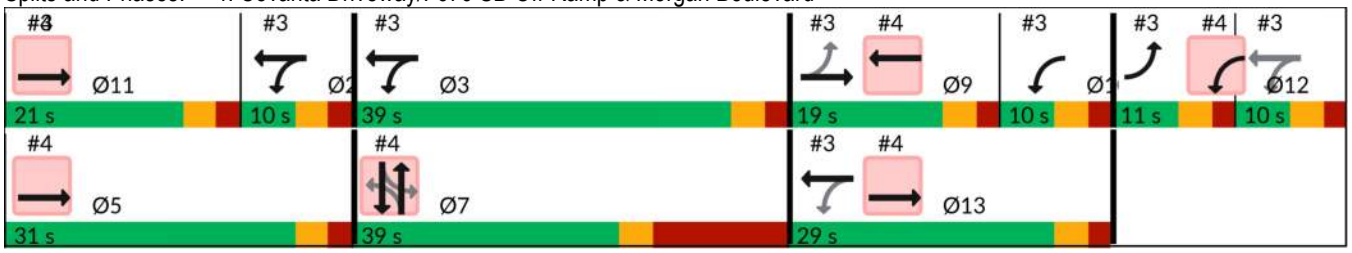
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	105	2	13	204	0	4	0	17	98	5	94
Future Volume (vph)	0	105	2	13	204	0	4	0	17	98	5	94
Ideal Flow (vphpl)	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Storage Length (ft)	0		0	115		0	0		0	250		0
Storage Lanes	0		0	1		0	0		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.998						0.890			0.858	
Flt Protected				0.950				0.991		0.950		
Satd. Flow (prot)	0	2711	0	1012	3088	0	0	932	0	1654	1424	0
Flt Permitted				0.950				0.905		0.736		
Satd. Flow (perm)	0	2711	0	1012	3088	0	0	851	0	1281	1424	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2						245			124	
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		173			781			270			419	
Travel Time (s)		4.7			21.3			7.4			11.4	
Peak Hour Factor	0.88	0.88	0.88	0.85	0.85	0.85	0.63	0.63	0.63	0.76	0.76	0.76
Heavy Vehicles (%)	0%	37%	0%	83%	20%	0%	100%	0%	81%	12%	80%	14%
Adj. Flow (vph)	0	119	2	15	240	0	6	0	27	129	7	124
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	121	0	15	240	0	0	33	0	129	131	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			12	
Link Offset(ft)		0			-4			0			4	
Crosswalk Width(ft)		16			38			22			26	
Two way Left Turn Lane												
Headway Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors		1		1	1			1		1	1	
Detector Template		Thru		Left	Thru			Thru		Left	Thru	
Leading Detector (ft)		50		50	50			50		50	50	
Trailing Detector (ft)		-10		-10	-10			-10		-10	-10	
Detector 1 Position(ft)		-10		-10	-10			-10		-10	-10	
Detector 1 Size(ft)		60		60	60			60		60	60	
Detector 1 Type		Cl+Ex		Cl+Ex	Cl+Ex			Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Detector 1 Queue (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Detector 1 Delay (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Turn Type		NA		Prot	NA		Perm	NA		Perm	NA	
Protected Phases		5 13 11		12	9			7			7	
Permitted Phases							7			7	7	
Detector Phase		5 13 11		12	9		7	7		7	7	
Switch Phase												
Minimum Initial (s)				5.0	7.0		7.0	7.0		7.0	7.0	
Minimum Split (s)				10.0	12.0		22.5	22.5		22.5	22.5	

Lane Group	Ø1	Ø2	Ø3	Ø5	Ø10	Ø11	Ø13
Lane Configurations							
Traffic Volume (vph)							
Future Volume (vph)							
Ideal Flow (vphpl)							
Storage Length (ft)							
Storage Lanes							
Taper Length (ft)							
Lane Util. Factor							
Frt							
Flt Protected							
Satd. Flow (prot)							
Flt Permitted							
Satd. Flow (perm)							
Right Turn on Red							
Satd. Flow (RTOR)							
Link Speed (mph)							
Link Distance (ft)							
Travel Time (s)							
Peak Hour Factor							
Heavy Vehicles (%)							
Adj. Flow (vph)							
Shared Lane Traffic (%)							
Lane Group Flow (vph)							
Enter Blocked Intersection							
Lane Alignment							
Median Width(ft)							
Link Offset(ft)							
Crosswalk Width(ft)							
Two way Left Turn Lane							
Headway Factor							
Turning Speed (mph)							
Number of Detectors							
Detector Template							
Leading Detector (ft)							
Trailing Detector (ft)							
Detector 1 Position(ft)							
Detector 1 Size(ft)							
Detector 1 Type							
Detector 1 Channel							
Detector 1 Extend (s)							
Detector 1 Queue (s)							
Detector 1 Delay (s)							
Turn Type							
Protected Phases	1	2	3	5	10	11	13
Permitted Phases							
Detector Phase							
Switch Phase							
Minimum Initial (s)	7.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	12.0	10.0	10.0	10.0	10.0	10.0	10.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (s)				11.0	19.0		39.0	39.0		39.0	39.0	
Total Split (%)				9.2%	15.8%		32.5%	32.5%		32.5%	32.5%	
Maximum Green (s)				6.0	14.0		24.0	24.0		24.0	24.0	
Yellow Time (s)				3.0	3.0		3.0	3.0		3.0	3.0	
All-Red Time (s)				2.0	2.0		12.0	12.0		12.0	12.0	
Lost Time Adjust (s)				0.0	0.0			0.0		0.0	0.0	
Total Lost Time (s)				5.0	5.0			15.0		15.0	15.0	
Lead/Lag				Lead	Lead							
Lead-Lag Optimize?				Yes	Yes							
Vehicle Extension (s)				3.0	4.0		4.0	4.0		4.0	4.0	
Recall Mode				None	None		None	None		None	None	
Act Effct Green (s)		56.8		6.1	13.0			16.4		16.4	16.4	
Actuated g/C Ratio		0.57		0.06	0.13			0.17		0.17	0.17	
v/c Ratio		0.08		0.24	0.59			0.10		0.61	0.39	
Control Delay (s/veh)		0.3		61.9	50.5			0.6		54.1	12.0	
Queue Delay		0.2		0.0	0.0			0.0		0.0	0.0	
Total Delay (s/veh)		0.6		61.9	50.5			0.6		54.1	12.0	
LOS		A		E	D			A		D	B	
Approach Delay (s/veh)		0.6			51.2			0.6			32.9	
Approach LOS		A			D			A			C	

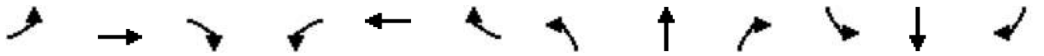
Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 99.3			
Natural Cycle: 90			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.61			
Intersection Signal Delay (s/veh): 32.4		Intersection LOS: C	
Intersection Capacity Utilization 36.0%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 4: Covanta Driveway/I-676 SB Off-Ramp & Morgan Boulevard



Lane Group	Ø1	Ø2	Ø3	Ø5	Ø10	Ø11	Ø13
Total Split (s)	21.0	10.0	39.0	31.0	10.0	10.0	29.0
Total Split (%)	18%	8%	33%	26%	8%	8%	24%
Maximum Green (s)	16.0	5.0	34.0	26.0	5.0	5.0	24.0
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)							
Total Lost Time (s)							
Lead/Lag	Lead	Lag			Lag	Lag	
Lead-Lag Optimize?	Yes	Yes			Yes	Yes	
Vehicle Extension (s)	4.0	4.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	Max	None	None	None	None	None
Act Effct Green (s)							
Actuated g/C Ratio							
v/c Ratio							
Control Delay (s/veh)							
Queue Delay							
Total Delay (s/veh)							
LOS							
Approach Delay (s/veh)							
Approach LOS							

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	135	0	0	223	10	165	100	0	9	0	160
Future Volume (veh/h)	0	135	0	0	223	10	165	100	0	9	0	160
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	0	1844	0	0	1813	1752	1463	1844	0	1631	1950	1844
Adj Flow Rate, veh/h	0	167	0	0	245	11	158	173	0	11	0	113
Peak Hour Factor	0.81	0.81	0.81	0.91	0.91	0.91	0.84	0.84	0.84	0.84	0.84	0.84
Percent Heavy Veh, %	0	7	0	0	9	13	32	7	0	21	0	7
Cap, veh/h	0	1908	0	0	1829	82	207	274		14	0	140
Arrive On Green	0.00	0.54	0.00	0.00	0.54	0.54	0.15	0.15	0.00	0.09	0.00	0.09
Sat Flow, veh/h	0	3687	0	0	3449	150	1394	1844	0	148	0	1521
Grp Volume(v), veh/h	0	167	0	0	125	131	158	173	0	124	0	0
Grp Sat Flow(s),veh/h/ln	0	1751	0	0	1722	1786	1394	1844	0	1669	0	0
Q Serve(g_s), s	0.0	1.6	0.0	0.0	2.5	2.5	7.6	6.2	0.0	5.1	0.0	0.0
Cycle Q Clear(g_c), s	0.0	1.6	0.0	0.0	2.5	2.5	7.6	6.2	0.0	5.1	0.0	0.0
Prop In Lane	0.00		0.00	0.00		0.08	1.00		0.00	0.09		0.91
Lane Grp Cap(c), veh/h	0	1908	0	0	938	973	207	274		154	0	0
V/C Ratio(X)	0.00	0.09	0.00	0.00	0.13	0.13	0.76	0.63		0.80	0.00	0.00
Avail Cap(c_a), veh/h	0	1908	0	0	938	973	338	448		167	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.94	0.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	7.6	0.0	0.0	7.8	7.8	28.6	28.0	0.0	31.1	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.0	0.3	0.3	5.7	2.4	0.0	22.8	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.6	0.0	0.0	0.9	0.9	2.8	2.8	0.0	3.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	7.7	0.0	0.0	8.1	8.1	34.3	30.4	0.0	54.0	0.0	0.0
LnGrp LOS		A			A	A	C	C		D		
Approach Vol, veh/h		167			256			331			124	
Approach Delay, s/veh		7.7			8.1			32.3			54.0	
Approach LOS		A			A			C			D	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	15.4	43.1	11.5	43.1
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	17.0	31.0	7.0	31.0
Max Q Clear Time (g_c+I1), s	9.6	0.0	7.1	0.0
Green Ext Time (p_c), s	0.8	0.0	0.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	23.6
HCM 7th LOS	C

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	4.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	3	10	18	18	12	62	3	92	18	76	186	5
Future Vol, veh/h	3	10	18	18	12	62	3	92	18	76	186	5
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	63	63	63	73	73	73	77	77	77	88	88	88
Heavy Vehicles, %	0	20	6	6	27	2	0	10	0	0	7	0
Mvmt Flow	5	16	29	25	16	85	4	119	23	86	211	6

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	522	538	214	531	529	131	217	0	0	143	0	0
Stage 1	387	387	-	139	139	-	-	-	-	-	-	-
Stage 2	135	151	-	392	390	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.7	6.26	7.16	6.77	6.22	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.7	-	6.16	5.77	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.7	-	6.16	5.77	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4.18	3.354	3.554	4.243	3.318	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	468	426	816	453	422	918	1365	-	-	1452	-	-
Stage 1	641	579	-	855	736	-	-	-	-	-	-	-
Stage 2	873	740	-	625	567	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	379	396	816	391	392	918	1365	-	-	1452	-	-
Mov Cap-2 Maneuver	379	396	-	391	392	-	-	-	-	-	-	-
Stage 1	597	540	-	852	734	-	-	-	-	-	-	-
Stage 2	772	737	-	545	528	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	12.03	12.03	0.2	2.17
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	46	-	-	561	638	510	-	-
HCM Lane V/C Ratio	0.003	-	-	0.088	0.198	0.059	-	-
HCM Ctrl Dly (s/v)	7.6	0	-	12	12	7.6	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.3	0.7	0.2	-	-

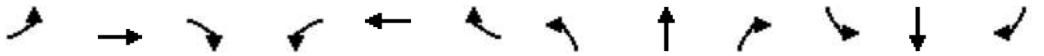
Intersection	
Int Delay, s/veh	2.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	257	8	2	89	12	39
Future Vol, veh/h	257	8	2	89	12	39
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Stop
Storage Length	-	-	175	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	87	87	84	84	41	41
Heavy Vehicles, %	4	0	0	9	9	3
Mvmt Flow	295	9	2	106	29	95

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	305	0	411	300
Stage 1	-	-	-	-	300	-
Stage 2	-	-	-	-	111	-
Critical Hdwy	-	-	4.1	-	6.49	6.23
Critical Hdwy Stg 1	-	-	-	-	5.49	-
Critical Hdwy Stg 2	-	-	-	-	5.49	-
Follow-up Hdwy	-	-	2.2	-	3.581	3.327
Pot Cap-1 Maneuver	-	-	1268	-	584	737
Stage 1	-	-	-	-	736	-
Stage 2	-	-	-	-	897	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1268	-	583	737
Mov Cap-2 Maneuver	-	-	-	-	583	-
Stage 1	-	-	-	-	736	-
Stage 2	-	-	-	-	895	-

Approach	EB	WB	NB
HCM Ctrl Dly, s/v	0	0.17	9.32
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	958	-	-	1268	-
HCM Lane V/C Ratio	0.13	-	-	0.002	-
HCM Ctrl Dly (s/v)	9.3	-	-	7.8	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0.4	-	-	0	-



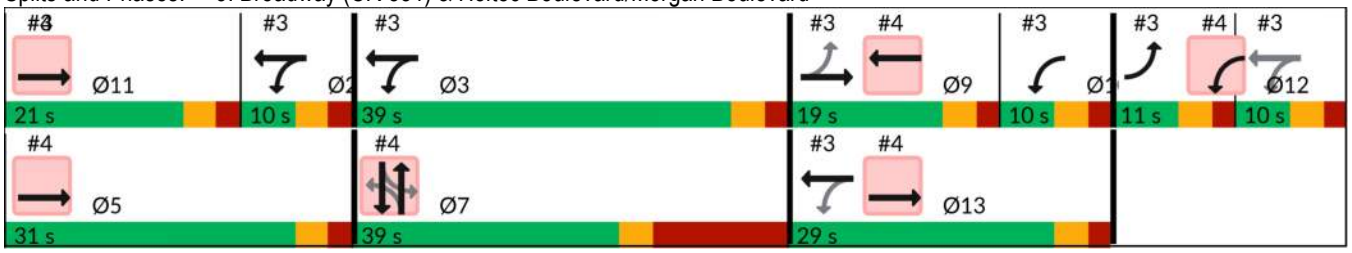
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	169	27	279	7	40	0	45	64	96	177	2
Future Volume (vph)	1	169	27	279	7	40	0	45	64	96	177	2
Ideal Flow (vphpl)	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Storage Length (ft)	190		0	100		0	315		0	375		0
Storage Lanes	1		0	1		0	1		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.979			0.873				0.850		0.998	
Flt Protected	0.950			0.950						0.950		
Satd. Flow (prot)	1852	3596	0	1816	3030	0	1950	1789	1192	1764	1872	0
Flt Permitted	0.717			0.527						0.723		
Satd. Flow (perm)	1398	3596	0	1007	3030	0	1950	1789	1192	1343	1872	0
Right Turn on Red			Yes			Yes			No			Yes
Satd. Flow (RTOR)		12			49							
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		520			173			434			525	
Travel Time (s)		14.2			4.7			11.8			14.3	
Peak Hour Factor	0.80	0.80	0.80	0.81	0.81	0.81	0.87	0.87	0.87	0.90	0.90	0.90
Heavy Vehicles (%)	0%	1%	0%	2%	0%	8%	0%	9%	39%	5%	4%	0%
Adj. Flow (vph)	1	211	34	344	9	49	0	52	74	107	197	2
Shared Lane Traffic (%)												
Lane Group Flow (vph)	1	245	0	344	58	0	0	52	74	107	199	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		-2			2			-6			6	
Crosswalk Width(ft)		36			42			32			30	
Two way Left Turn Lane												
Headway Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	1		1	1		1	1	1	1	1	
Detector Template	Left	Thru		Left	Thru		Left	Thru	Right	Left	Thru	
Leading Detector (ft)	50	50		50	50		50	50	50	50	50	
Trailing Detector (ft)	-10	-10		-10	-10		-10	-10	-10	-10	-10	
Detector 1 Position(ft)	-10	-10		-10	-10		-10	-10	-10	-10	-10	
Detector 1 Size(ft)	60	60		60	60		60	60	60	60	60	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Turn Type	pm+pt	NA		custom	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	12	9		10 2 3	2 3 13			1			1	
Permitted Phases	9			11 13	2 11		1		1	1		
Detector Phase	12	9		10 2 3	2 3 13		1	1	1	1	1	
Switch Phase												
Minimum Initial (s)	5.0	7.0					7.0	7.0	7.0	7.0	7.0	
Minimum Split (s)	10.0	12.0					12.0	12.0	12.0	12.0	12.0	

Lane Group	Ø2	Ø3	Ø5	Ø7	Ø10	Ø11	Ø13
Lane Configurations							
Traffic Volume (vph)							
Future Volume (vph)							
Ideal Flow (vphpl)							
Storage Length (ft)							
Storage Lanes							
Taper Length (ft)							
Lane Util. Factor							
Frt							
Flt Protected							
Satd. Flow (prot)							
Flt Permitted							
Satd. Flow (perm)							
Right Turn on Red							
Satd. Flow (RTOR)							
Link Speed (mph)							
Link Distance (ft)							
Travel Time (s)							
Peak Hour Factor							
Heavy Vehicles (%)							
Adj. Flow (vph)							
Shared Lane Traffic (%)							
Lane Group Flow (vph)							
Enter Blocked Intersection							
Lane Alignment							
Median Width(ft)							
Link Offset(ft)							
Crosswalk Width(ft)							
Two way Left Turn Lane							
Headway Factor							
Turning Speed (mph)							
Number of Detectors							
Detector Template							
Leading Detector (ft)							
Trailing Detector (ft)							
Detector 1 Position(ft)							
Detector 1 Size(ft)							
Detector 1 Type							
Detector 1 Channel							
Detector 1 Extend (s)							
Detector 1 Queue (s)							
Detector 1 Delay (s)							
Turn Type							
Protected Phases	2	3	5	7	10	11	13
Permitted Phases							
Detector Phase							
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	7.0	5.0	5.0	5.0
Minimum Split (s)	10.0	10.5	10.0	22.5	10.0	10.0	10.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (s)	11.0	19.0					21.0	21.0	21.0	21.0	21.0	
Total Split (%)	9.2%	15.8%					17.5%	17.5%	17.5%	17.5%	17.5%	
Maximum Green (s)	6.0	14.0					16.0	16.0	16.0	16.0	16.0	
Yellow Time (s)	3.0	3.0					3.0	3.0	3.0	3.0	3.0	
All-Red Time (s)	2.0	2.0					2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0					0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	5.0	5.0					5.0	5.0	5.0	5.0	5.0	
Lead/Lag	Lead	Lead					Lead	Lead	Lead	Lead	Lead	
Lead-Lag Optimize?	Yes	Yes					Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	3.0	4.0					4.0	4.0	4.0	4.0	4.0	
Recall Mode	None	None					None	None	None	None	None	
Act Effct Green (s)	18.5	12.6		71.6	80.7			15.3	15.3	15.3	15.3	
Actuated g/C Ratio	0.17	0.12		0.66	0.74			0.14	0.14	0.14	0.14	
v/c Ratio	0.00	0.57		0.34	0.03			0.21	0.44	0.57	0.76	
Control Delay (s/veh)	29.0	49.7		4.5	0.3			45.4	53.6	57.6	64.9	
Queue Delay	0.0	0.0		0.6	0.0			0.0	0.0	0.0	0.0	
Total Delay (s/veh)	29.0	49.7		5.1	0.3			45.4	53.6	57.6	64.9	
LOS	C	D		A	A			D	D	E	E	
Approach Delay (s/veh)		49.6			4.4			50.2			62.4	
Approach LOS		D			A			D			E	

Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 109			
Natural Cycle: 100			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.87			
Intersection Signal Delay (s/veh): 36.5		Intersection LOS: D	
Intersection Capacity Utilization 45.2%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 3: Broadway (CR 551) & Holtec Boulevard/Morgan Boulevard



Lane Group	Ø2	Ø3	Ø5	Ø7	Ø10	Ø11	Ø13
Total Split (s)	10.0	39.0	31.0	39.0	10.0	10.0	29.0
Total Split (%)	8%	33%	26%	33%	8%	8%	24%
Maximum Green (s)	5.0	34.0	26.0	24.0	5.0	5.0	24.0
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
All-Red Time (s)	2.0	2.0	2.0	12.0	2.0	2.0	2.0
Lost Time Adjust (s)							
Total Lost Time (s)							
Lead/Lag	Lag				Lag	Lag	
Lead-Lag Optimize?	Yes				Yes	Yes	
Vehicle Extension (s)	4.0	3.0	3.0	4.0	3.0	3.0	3.0
Recall Mode	Max	None	None	None	None	None	None
Act Effct Green (s)							
Actuated g/C Ratio							
v/c Ratio							
Control Delay (s/veh)							
Queue Delay							
Total Delay (s/veh)							
LOS							
Approach Delay (s/veh)							
Approach LOS							

Intersection Summary

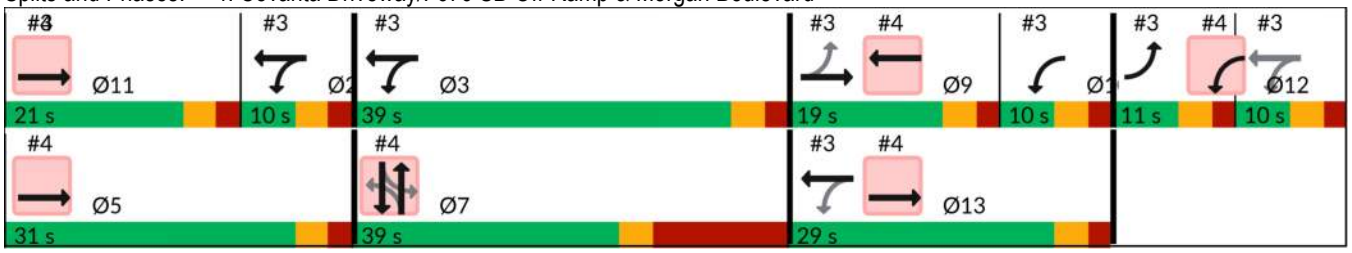
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	330	2	5	58	0	1	0	21	222	1	271
Future Volume (vph)	0	330	2	5	58	0	1	0	21	222	1	271
Ideal Flow (vphpl)	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Storage Length (ft)	0		0	115		0	0		0	250		0
Storage Lanes	0		0	1		0	0		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.999						0.870			0.850	
Flt Protected				0.950				0.998		0.950		
Satd. Flow (prot)	0	3389	0	1158	3529	0	0	1192	0	1799	1641	0
Flt Permitted				0.950				0.977		0.738		
Satd. Flow (perm)	0	3389	0	1158	3529	0	0	1167	0	1397	1641	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		1						245			327	
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		173			781			270			419	
Travel Time (s)		4.7			21.3			7.4			11.4	
Peak Hour Factor	0.82	0.82	0.82	0.76	0.76	0.76	0.75	0.75	0.75	0.83	0.83	0.83
Heavy Vehicles (%)	0%	9%	50%	60%	5%	0%	100%	0%	40%	3%	0%	1%
Adj. Flow (vph)	0	402	2	7	76	0	1	0	28	267	1	327
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	404	0	7	76	0	0	29	0	267	328	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			12	
Link Offset(ft)		0			-4			0			4	
Crosswalk Width(ft)		16			38			22			26	
Two way Left Turn Lane												
Headway Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors		1		1	1			1		1	1	
Detector Template		Thru		Left	Thru			Thru		Left	Thru	
Leading Detector (ft)		50		50	50			50		50	50	
Trailing Detector (ft)		-10		-10	-10			-10		-10	-10	
Detector 1 Position(ft)		-10		-10	-10			-10		-10	-10	
Detector 1 Size(ft)		60		60	60			60		60	60	
Detector 1 Type		Cl+Ex		Cl+Ex	Cl+Ex			Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Detector 1 Queue (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Detector 1 Delay (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Turn Type		NA		Prot	NA		Perm	NA		Perm	NA	
Protected Phases		5 13 11		12	9			7			7	
Permitted Phases							7			7	7	
Detector Phase		5 13 11		12	9		7	7		7	7	
Switch Phase												
Minimum Initial (s)				5.0	7.0		7.0	7.0		7.0	7.0	
Minimum Split (s)				10.0	12.0		22.5	22.5		22.5	22.5	

Lane Group	Ø1	Ø2	Ø3	Ø5	Ø10	Ø11	Ø13
Lane Configurations							
Traffic Volume (vph)							
Future Volume (vph)							
Ideal Flow (vphpl)							
Storage Length (ft)							
Storage Lanes							
Taper Length (ft)							
Lane Util. Factor							
Frt							
Flt Protected							
Satd. Flow (prot)							
Flt Permitted							
Satd. Flow (perm)							
Right Turn on Red							
Satd. Flow (RTOR)							
Link Speed (mph)							
Link Distance (ft)							
Travel Time (s)							
Peak Hour Factor							
Heavy Vehicles (%)							
Adj. Flow (vph)							
Shared Lane Traffic (%)							
Lane Group Flow (vph)							
Enter Blocked Intersection							
Lane Alignment							
Median Width(ft)							
Link Offset(ft)							
Crosswalk Width(ft)							
Two way Left Turn Lane							
Headway Factor							
Turning Speed (mph)							
Number of Detectors							
Detector Template							
Leading Detector (ft)							
Trailing Detector (ft)							
Detector 1 Position(ft)							
Detector 1 Size(ft)							
Detector 1 Type							
Detector 1 Channel							
Detector 1 Extend (s)							
Detector 1 Queue (s)							
Detector 1 Delay (s)							
Turn Type							
Protected Phases	1	2	3	5	10	11	13
Permitted Phases							
Detector Phase							
Switch Phase							
Minimum Initial (s)	7.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	12.0	10.0	10.5	10.0	10.0	10.0	10.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (s)				11.0	19.0		39.0	39.0		39.0	39.0	
Total Split (%)				9.2%	15.8%		32.5%	32.5%		32.5%	32.5%	
Maximum Green (s)				6.0	14.0		24.0	24.0		24.0	24.0	
Yellow Time (s)				3.0	3.0		3.0	3.0		3.0	3.0	
All-Red Time (s)				2.0	2.0		12.0	12.0		12.0	12.0	
Lost Time Adjust (s)				0.0	0.0			0.0		0.0	0.0	
Total Lost Time (s)				5.0	5.0			15.0		15.0	15.0	
Lead/Lag				Lead	Lead							
Lead-Lag Optimize?				Yes	Yes							
Vehicle Extension (s)				3.0	4.0		4.0	4.0		4.0	4.0	
Recall Mode				None	None		None	None		None	None	
Act Effct Green (s)		62.2		5.9	12.6			23.9		23.9	23.9	
Actuated g/C Ratio		0.57		0.05	0.12			0.22		0.22	0.22	
v/c Ratio		0.21		0.11	0.19			0.06		0.87	0.53	
Control Delay (s/veh)		0.8		56.2	45.8			0.3		70.5	7.9	
Queue Delay		0.4		0.0	0.0			0.0		0.0	0.0	
Total Delay (s/veh)		1.2		56.2	45.8			0.3		70.5	7.9	
LOS		A		E	D			A		E	A	
Approach Delay (s/veh)		1.2			46.7			0.3			36.0	
Approach LOS		A			D			A			D	

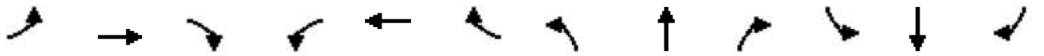
Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 109			
Natural Cycle: 100			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.87			
Intersection Signal Delay (s/veh): 23.2		Intersection LOS: C	
Intersection Capacity Utilization 44.3%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 4: Covanta Driveway/I-676 SB Off-Ramp & Morgan Boulevard



Lane Group	Ø1	Ø2	Ø3	Ø5	Ø10	Ø11	Ø13
Total Split (s)	21.0	10.0	39.0	31.0	10.0	10.0	29.0
Total Split (%)	18%	8%	33%	26%	8%	8%	24%
Maximum Green (s)	16.0	5.0	34.0	26.0	5.0	5.0	24.0
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)							
Total Lost Time (s)							
Lead/Lag	Lead	Lag			Lag	Lag	
Lead-Lag Optimize?	Yes	Yes			Yes	Yes	
Vehicle Extension (s)	4.0	4.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	Max	None	None	None	None	None
Act Effct Green (s)							
Actuated g/C Ratio							
v/c Ratio							
Control Delay (s/veh)							
Queue Delay							
Total Delay (s/veh)							
LOS							
Approach Delay (s/veh)							
Approach LOS							

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	221	0	0	236	17	51	114	0	18	0	224
Future Volume (veh/h)	0	221	0	0	236	17	51	114	0	18	0	224
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	0	1844	0	0	1828	1950	1113	1889	0	1859	1950	1920
Adj Flow Rate, veh/h	0	295	0	0	257	18	60	134	0	19	0	111
Peak Hour Factor	0.75	0.75	0.75	0.92	0.92	0.92	0.85	0.85	0.85	0.95	0.95	0.95
Percent Heavy Veh, %	0	7	0	0	8	0	55	4	0	6	0	2
Cap, veh/h	0	1927	0	0	1812	126	148	264		24	0	138
Arrive On Green	0.00	0.55	0.00	0.00	0.55	0.55	0.14	0.14	0.00	0.10	0.00	0.10
Sat Flow, veh/h	0	3687	0	0	3386	229	1060	1889	0	245	0	1434
Grp Volume(v), veh/h	0	295	0	0	135	140	60	134	0	130	0	0
Grp Sat Flow(s),veh/h/ln	0	1751	0	0	1737	1787	1060	1889	0	1680	0	0
Q Serve(g_s), s	0.0	2.9	0.0	0.0	2.6	2.7	3.6	4.6	0.0	5.3	0.0	0.0
Cycle Q Clear(g_c), s	0.0	2.9	0.0	0.0	2.6	2.7	3.6	4.6	0.0	5.3	0.0	0.0
Prop In Lane	0.00		0.00	0.00		0.13	1.00		0.00	0.15		0.85
Lane Grp Cap(c), veh/h	0	1927	0	0	955	983	148	264		161	0	0
V/C Ratio(X)	0.00	0.15	0.00	0.00	0.14	0.14	0.41	0.51		0.81	0.00	0.00
Avail Cap(c_a), veh/h	0	1927	0	0	955	983	258	459		168	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.88	0.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	7.7	0.0	0.0	7.7	7.7	27.5	27.9	0.0	31.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.0	0.3	0.3	1.8	1.5	0.0	23.5	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.0	0.0	0.0	1.0	1.0	1.0	2.1	0.0	3.2	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	7.9	0.0	0.0	8.0	8.0	29.2	29.4	0.0	54.5	0.0	0.0
LnGrp LOS		A			A	A	C	C		D		
Approach Vol, veh/h		295			275			194			130	
Approach Delay, s/veh		7.9			8.0			29.4			54.5	
Approach LOS		A			A			C			D	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	14.8	43.5	11.7	43.5
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	17.0	31.0	7.0	31.0
Max Q Clear Time (g_c+I1), s	6.6	0.0	7.3	0.0
Green Ext Time (p_c), s	0.5	0.0	0.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	19.4
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

HOLTEC TECHNOLOGY CENTER ROAD WIDENING AND BUILDING EXPANSION

APPENDIX E

Trip Generation

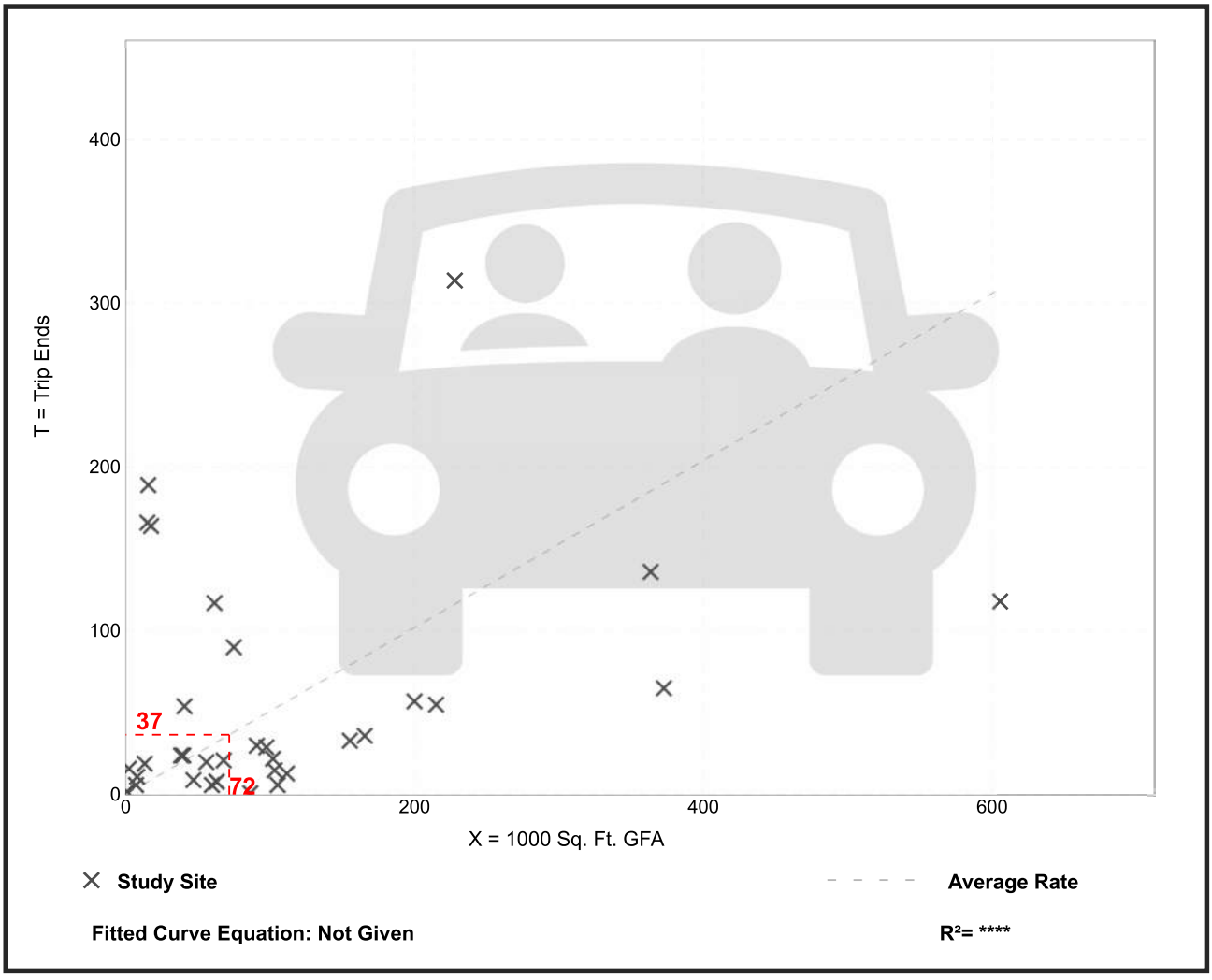
Manufacturing
(140)

Vehicle Trip Ends vs: **1000 Sq. Ft. GFA**
On a: **Weekday,**
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: **General Urban/Suburban**
Number of Studies: 34
Avg. 1000 Sq. Ft. GFA: 109
Directional Distribution: 75% entering, 25% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.51	0.01 - 11.93	1.27

Data Plot and Equation



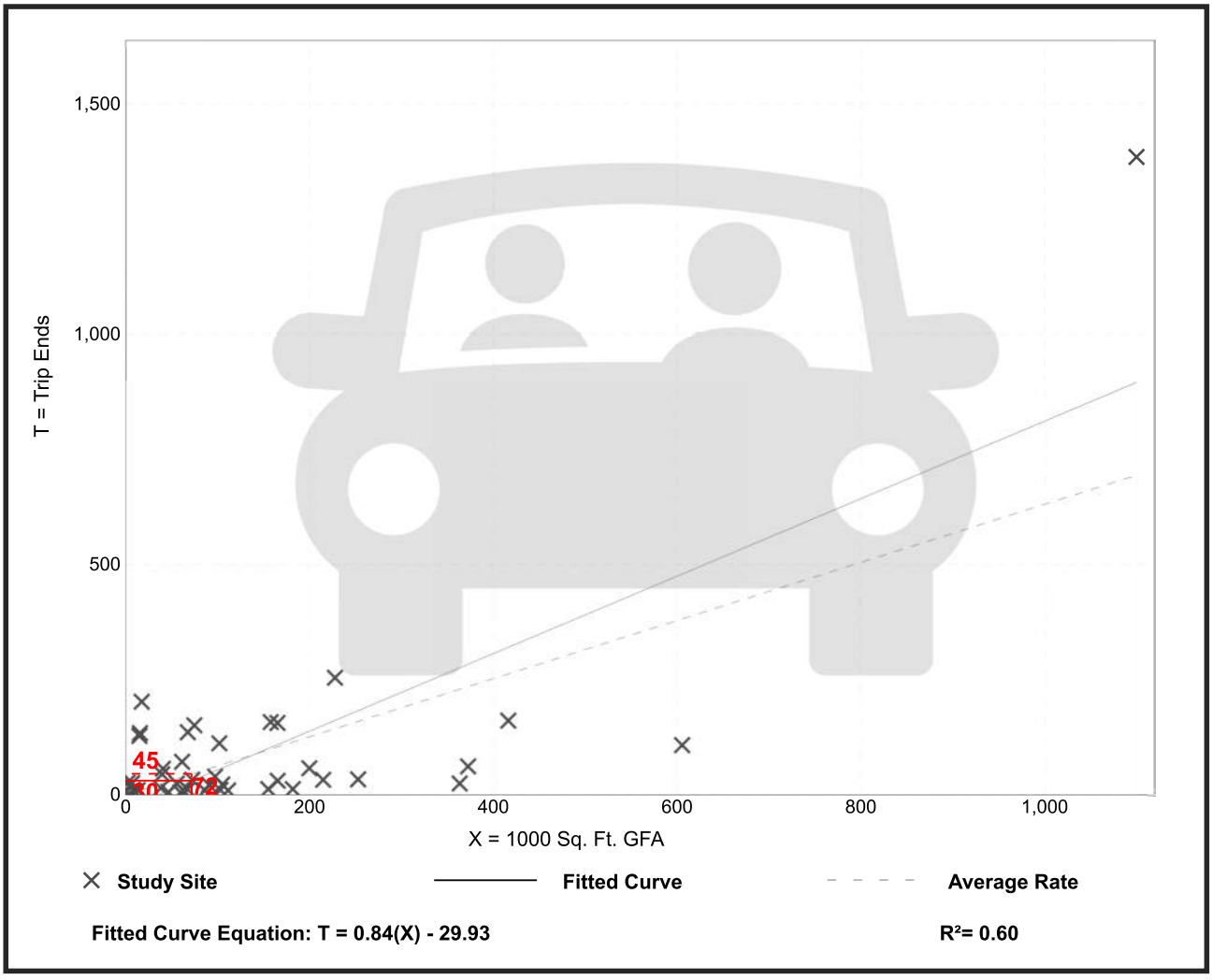
Manufacturing
(140)

Vehicle Trip Ends vs: **1000 Sq. Ft. GFA**
On a: **Weekday,**
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: **General Urban/Suburban**
Number of Studies: 42
Avg. 1000 Sq. Ft. GFA: 144
Directional Distribution: 29% entering, 71% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
0.63	0.07 - 11.37	1.01

Data Plot and Equation



Fitted Curve Equation: T = 0.84(X) - 29.93

R^2= 0.60

HOLTEC TECHNOLOGY CENTER ROAD WIDENING AND BUILDING EXPANSION

APPENDIX F

2027 Build Synchro Analysis Worksheets

Intersection	
Int Delay, s/veh	3.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	1	15	8	3	14	59	2	107	9	42	62	3
Future Vol, veh/h	1	15	8	3	14	59	2	107	9	42	62	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	96	96	90	90	90	90	72	72	72	86	86	86
Heavy Vehicles, %	0	36	13	0	31	5	50	16	11	8	26	0
Mvmt Flow	1	16	9	3	16	66	3	149	13	49	72	3

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	333	338	74	338	334	155	76	0	0	161	0	0
Stage 1	172	172	-	160	160	-	-	-	-	-	-	-
Stage 2	162	167	-	178	173	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.86	6.33	7.1	6.81	6.25	4.6	-	-	4.18	-	-
Critical Hdwy Stg 1	6.1	5.86	-	6.1	5.81	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.86	-	6.1	5.81	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4.324	3.417	3.5	4.279	3.345	2.65	-	-	2.272	-	-
Pot Cap-1 Maneuver	624	532	958	620	542	883	1268	-	-	1382	-	-
Stage 1	835	697	-	846	713	-	-	-	-	-	-	-
Stage 2	845	700	-	829	704	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	539	511	958	572	521	883	1268	-	-	1382	-	-
Mov Cap-2 Maneuver	539	511	-	572	521	-	-	-	-	-	-	-
Stage 1	804	671	-	844	712	-	-	-	-	-	-	-
Stage 2	763	699	-	773	678	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	11.14	10.26	0.13	3.02
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	30	-	-	612	768	700	-	-
HCM Lane V/C Ratio	0.002	-	-	0.042	0.11	0.035	-	-
HCM Ctrl Dly (s/v)	7.8	0	-	11.1	10.3	7.7	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.4	0.1	-	-

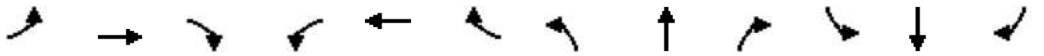
Intersection	
Int Delay, s/veh	2.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	70	10	41	106	14	6
Future Vol, veh/h	70	10	41	106	14	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Stop
Storage Length	-	-	175	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	84	84	85	85	61	61
Heavy Vehicles, %	20	20	23	21	8	33
Mvmt Flow	83	12	48	125	23	10

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	95	0	310	89
Stage 1	-	-	-	-	89	-
Stage 2	-	-	-	-	221	-
Critical Hdwy	-	-	4.33	-	6.48	6.53
Critical Hdwy Stg 1	-	-	-	-	5.48	-
Critical Hdwy Stg 2	-	-	-	-	5.48	-
Follow-up Hdwy	-	-	2.407	-	3.572	3.597
Pot Cap-1 Maneuver	-	-	1377	-	670	890
Stage 1	-	-	-	-	919	-
Stage 2	-	-	-	-	802	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1377	-	646	890
Mov Cap-2 Maneuver	-	-	-	-	646	-
Stage 1	-	-	-	-	919	-
Stage 2	-	-	-	-	774	-

Approach	EB	WB	NB
HCM Ctrl Dly, s/v	0	2.15	9.05
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	921	-	-	1377	-
HCM Lane V/C Ratio	0.036	-	-	0.035	-
HCM Ctrl Dly (s/v)	9.1	-	-	7.7	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-



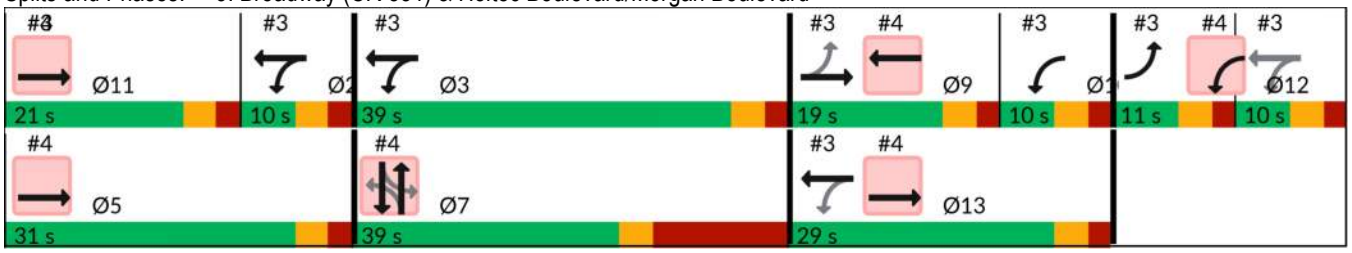
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	2	11	2	76	184	86	7	60	51	52	32	3
Future Volume (vph)	2	11	2	76	184	86	7	60	51	52	32	3
Ideal Flow (vphpl)	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Storage Length (ft)	190		0	100		0	315		0	375		0
Storage Lanes	1		0	1		0	1		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.977			0.952				0.850		0.987	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1852	3165	0	1278	3334	0	1852	1773	1237	1531	1591	0
Flt Permitted	0.553			0.739			0.728			0.706		
Satd. Flow (perm)	1078	3165	0	994	3334	0	1420	1773	1237	1138	1591	0
Right Turn on Red			Yes			Yes			No			Yes
Satd. Flow (RTOR)		4			105						3	
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		520			173			434			525	
Travel Time (s)		14.2			4.7			11.8			14.3	
Peak Hour Factor	0.50	0.50	0.50	0.82	0.82	0.82	0.76	0.76	0.76	0.78	0.78	0.78
Heavy Vehicles (%)	0%	17%	0%	45%	1%	16%	0%	10%	34%	21%	23%	0%
Adj. Flow (vph)	4	22	4	93	224	105	9	79	67	67	41	4
Shared Lane Traffic (%)												
Lane Group Flow (vph)	4	26	0	93	329	0	9	79	67	67	45	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		-2			2			-6			6	
Crosswalk Width(ft)		36			42			32			30	
Two way Left Turn Lane												
Headway Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	1		1	1		1	1	1	1	1	
Detector Template	Left	Thru		Left	Thru		Left	Thru	Right	Left	Thru	
Leading Detector (ft)	50	50		50	50		50	50	50	50	50	
Trailing Detector (ft)	-10	-10		-10	-10		-10	-10	-10	-10	-10	
Detector 1 Position(ft)	-10	-10		-10	-10		-10	-10	-10	-10	-10	
Detector 1 Size(ft)	60	60		60	60		60	60	60	60	60	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Turn Type	pm+pt	NA		custom	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	12	9		10 2 3	2 3 13			1			1	
Permitted Phases	9			11 13	2 11		1		1	1		
Detector Phase	12	9		10 2 3	2 3 13		1	1	1	1	1	
Switch Phase												
Minimum Initial (s)	5.0	7.0					7.0	7.0	7.0	7.0	7.0	
Minimum Split (s)	10.0	12.0					12.0	12.0	12.0	12.0	12.0	

Lane Group	Ø2	Ø3	Ø5	Ø7	Ø10	Ø11	Ø13
Lane Configurations							
Traffic Volume (vph)							
Future Volume (vph)							
Ideal Flow (vphpl)							
Storage Length (ft)							
Storage Lanes							
Taper Length (ft)							
Lane Util. Factor							
Frt							
Flt Protected							
Satd. Flow (prot)							
Flt Permitted							
Satd. Flow (perm)							
Right Turn on Red							
Satd. Flow (RTOR)							
Link Speed (mph)							
Link Distance (ft)							
Travel Time (s)							
Peak Hour Factor							
Heavy Vehicles (%)							
Adj. Flow (vph)							
Shared Lane Traffic (%)							
Lane Group Flow (vph)							
Enter Blocked Intersection							
Lane Alignment							
Median Width(ft)							
Link Offset(ft)							
Crosswalk Width(ft)							
Two way Left Turn Lane							
Headway Factor							
Turning Speed (mph)							
Number of Detectors							
Detector Template							
Leading Detector (ft)							
Trailing Detector (ft)							
Detector 1 Position(ft)							
Detector 1 Size(ft)							
Detector 1 Type							
Detector 1 Channel							
Detector 1 Extend (s)							
Detector 1 Queue (s)							
Detector 1 Delay (s)							
Turn Type							
Protected Phases	2	3	5	7	10	11	13
Permitted Phases							
Detector Phase							
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	7.0	5.0	5.0	5.0
Minimum Split (s)	10.0	10.0	10.0	22.5	10.0	10.0	10.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (s)	11.0	19.0					21.0	21.0	21.0	21.0	21.0	
Total Split (%)	9.2%	15.8%					17.5%	17.5%	17.5%	17.5%	17.5%	
Maximum Green (s)	6.0	14.0					16.0	16.0	16.0	16.0	16.0	
Yellow Time (s)	3.0	3.0					3.0	3.0	3.0	3.0	3.0	
All-Red Time (s)	2.0	2.0					2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0					0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	5.0	5.0					5.0	5.0	5.0	5.0	5.0	
Lead/Lag	Lead	Lead					Lead	Lead	Lead	Lead	Lead	
Lead-Lag Optimize?	Yes	Yes					Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	3.0	4.0					4.0	4.0	4.0	4.0	4.0	
Recall Mode	None	None					None	None	None	None	None	
Act Effct Green (s)	19.4	13.3		63.1	71.8		12.0	12.0	12.0	12.0	12.0	
Actuated g/C Ratio	0.19	0.13		0.63	0.72		0.12	0.12	0.12	0.12	0.12	
v/c Ratio	0.02	0.06		0.12	0.14		0.05	0.37	0.45	0.49	0.23	
Control Delay (s/veh)	30.0	39.5		1.4	0.2		44.7	49.4	54.9	57.8	44.5	
Queue Delay	0.0	0.0		0.3	0.5		0.0	0.0	0.0	0.0	0.0	
Total Delay (s/veh)	30.0	39.5		1.7	0.7		44.7	49.4	54.9	57.8	44.5	
LOS	C	D		A	A		D	D	D	E	D	
Approach Delay (s/veh)		38.2			0.9			51.5			52.5	
Approach LOS		D			A			D			D	

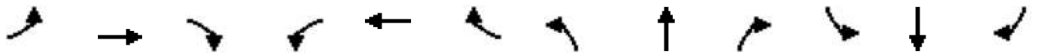
Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 99.5			
Natural Cycle: 90			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.63			
Intersection Signal Delay (s/veh): 21.4		Intersection LOS: C	
Intersection Capacity Utilization 30.0%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 3: Broadway (CR 551) & Holtec Boulevard/Morgan Boulevard



Lane Group	Ø2	Ø3	Ø5	Ø7	Ø10	Ø11	Ø13
Total Split (s)	10.0	39.0	31.0	39.0	10.0	10.0	29.0
Total Split (%)	8%	33%	26%	33%	8%	8%	24%
Maximum Green (s)	5.0	34.0	26.0	24.0	5.0	5.0	24.0
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
All-Red Time (s)	2.0	2.0	2.0	12.0	2.0	2.0	2.0
Lost Time Adjust (s)							
Total Lost Time (s)							
Lead/Lag	Lag				Lag	Lag	
Lead-Lag Optimize?	Yes				Yes	Yes	
Vehicle Extension (s)	4.0	3.0	3.0	4.0	3.0	3.0	3.0
Recall Mode	Max	None	None	None	None	None	None
Act Effct Green (s)							
Actuated g/C Ratio							
v/c Ratio							
Control Delay (s/veh)							
Queue Delay							
Total Delay (s/veh)							
LOS							
Approach Delay (s/veh)							
Approach LOS							

Intersection Summary



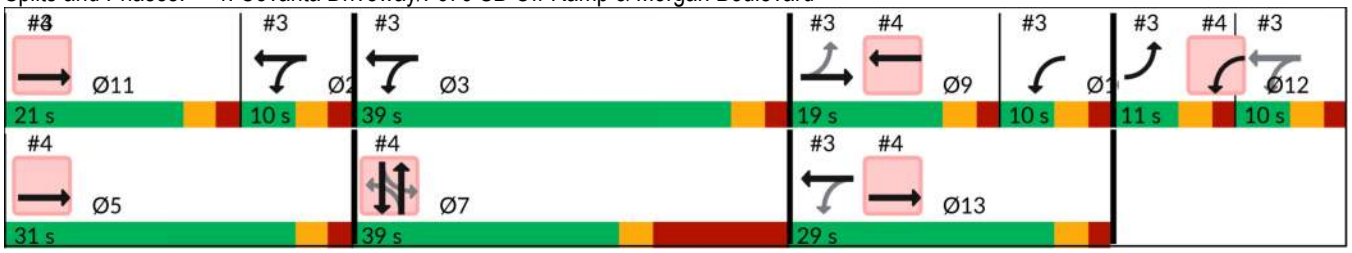
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	113	2	13	219	0	4	0	17	98	5	99
Future Volume (vph)	0	113	2	13	219	0	4	0	17	98	5	99
Ideal Flow (vphpl)	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Storage Length (ft)	0		0	115		0	0		0	250		0
Storage Lanes	0		0	1		0	0		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.998						0.890			0.858	
Flt Protected				0.950				0.991		0.950		
Satd. Flow (prot)	0	2710	0	1012	3088	0	0	932	0	1654	1425	0
Flt Permitted				0.950				0.903		0.736		
Satd. Flow (perm)	0	2710	0	1012	3088	0	0	850	0	1281	1425	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		2						245			130	
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		173			781			270			419	
Travel Time (s)		4.7			21.3			7.4			11.4	
Peak Hour Factor	0.88	0.88	0.88	0.85	0.85	0.85	0.63	0.63	0.63	0.76	0.76	0.76
Heavy Vehicles (%)	0%	37%	0%	83%	20%	0%	100%	0%	81%	12%	80%	14%
Adj. Flow (vph)	0	128	2	15	258	0	6	0	27	129	7	130
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	130	0	15	258	0	0	33	0	129	137	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			12	
Link Offset(ft)		0			-4			0			4	
Crosswalk Width(ft)		16			38			22			26	
Two way Left Turn Lane												
Headway Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors		1		1	1			1		1	1	
Detector Template		Thru		Left	Thru			Thru		Left	Thru	
Leading Detector (ft)		50		50	50			50		50	50	
Trailing Detector (ft)		-10		-10	-10			-10		-10	-10	
Detector 1 Position(ft)		-10		-10	-10			-10		-10	-10	
Detector 1 Size(ft)		60		60	60			60		60	60	
Detector 1 Type		Cl+Ex		Cl+Ex	Cl+Ex			Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Detector 1 Queue (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Detector 1 Delay (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Turn Type		NA		Prot	NA		Perm	NA		Perm	NA	
Protected Phases		5 13 11		12	9			7			7	
Permitted Phases							7			7	7	
Detector Phase		5 13 11		12	9		7	7		7	7	
Switch Phase												
Minimum Initial (s)				5.0	7.0		7.0	7.0		7.0	7.0	
Minimum Split (s)				10.0	12.0		22.5	22.5		22.5	22.5	

Lane Group	Ø1	Ø2	Ø3	Ø5	Ø10	Ø11	Ø13
Lane Configurations							
Traffic Volume (vph)							
Future Volume (vph)							
Ideal Flow (vphpl)							
Storage Length (ft)							
Storage Lanes							
Taper Length (ft)							
Lane Util. Factor							
Frt							
Flt Protected							
Satd. Flow (prot)							
Flt Permitted							
Satd. Flow (perm)							
Right Turn on Red							
Satd. Flow (RTOR)							
Link Speed (mph)							
Link Distance (ft)							
Travel Time (s)							
Peak Hour Factor							
Heavy Vehicles (%)							
Adj. Flow (vph)							
Shared Lane Traffic (%)							
Lane Group Flow (vph)							
Enter Blocked Intersection							
Lane Alignment							
Median Width(ft)							
Link Offset(ft)							
Crosswalk Width(ft)							
Two way Left Turn Lane							
Headway Factor							
Turning Speed (mph)							
Number of Detectors							
Detector Template							
Leading Detector (ft)							
Trailing Detector (ft)							
Detector 1 Position(ft)							
Detector 1 Size(ft)							
Detector 1 Type							
Detector 1 Channel							
Detector 1 Extend (s)							
Detector 1 Queue (s)							
Detector 1 Delay (s)							
Turn Type							
Protected Phases	1	2	3	5	10	11	13
Permitted Phases							
Detector Phase							
Switch Phase							
Minimum Initial (s)	7.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	12.0	10.0	10.0	10.0	10.0	10.0	10.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (s)				11.0	19.0		39.0	39.0		39.0	39.0	
Total Split (%)				9.2%	15.8%		32.5%	32.5%		32.5%	32.5%	
Maximum Green (s)				6.0	14.0		24.0	24.0		24.0	24.0	
Yellow Time (s)				3.0	3.0		3.0	3.0		3.0	3.0	
All-Red Time (s)				2.0	2.0		12.0	12.0		12.0	12.0	
Lost Time Adjust (s)				0.0	0.0			0.0		0.0	0.0	
Total Lost Time (s)				5.0	5.0			15.0		15.0	15.0	
Lead/Lag				Lead	Lead							
Lead-Lag Optimize?				Yes	Yes							
Vehicle Extension (s)				3.0	4.0		4.0	4.0		4.0	4.0	
Recall Mode				None	None		None	None		None	None	
Act Effct Green (s)		57.0		6.1	13.3			16.4		16.4	16.4	
Actuated g/C Ratio		0.57		0.06	0.13			0.16		0.16	0.16	
v/c Ratio		0.08		0.24	0.63			0.10		0.61	0.40	
Control Delay (s/veh)		0.4		62.1	51.4			0.6		54.2	11.9	
Queue Delay		0.3		0.0	0.0			0.0		0.0	0.0	
Total Delay (s/veh)		0.7		62.1	51.4			0.6		54.2	11.9	
LOS		A		E	D			A		D	B	
Approach Delay (s/veh)		0.7			52.0			0.6			32.4	
Approach LOS		A			D			A			C	

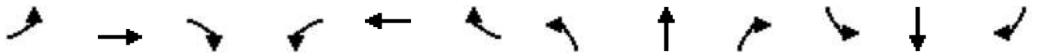
Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 99.5			
Natural Cycle: 90			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.63			
Intersection Signal Delay (s/veh): 32.7		Intersection LOS: C	
Intersection Capacity Utilization 36.0%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 4: Covanta Driveway/I-676 SB Off-Ramp & Morgan Boulevard



Lane Group	Ø1	Ø2	Ø3	Ø5	Ø10	Ø11	Ø13
Total Split (s)	21.0	10.0	39.0	31.0	10.0	10.0	29.0
Total Split (%)	18%	8%	33%	26%	8%	8%	24%
Maximum Green (s)	16.0	5.0	34.0	26.0	5.0	5.0	24.0
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)							
Total Lost Time (s)							
Lead/Lag	Lead	Lag			Lag	Lag	
Lead-Lag Optimize?	Yes	Yes			Yes	Yes	
Vehicle Extension (s)	4.0	4.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	Max	None	None	None	None	None
Act Effct Green (s)							
Actuated g/C Ratio							
v/c Ratio							
Control Delay (s/veh)							
Queue Delay							
Total Delay (s/veh)							
LOS							
Approach Delay (s/veh)							
Approach LOS							

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	139	0	0	228	10	170	100	0	9	0	164
Future Volume (veh/h)	0	139	0	0	228	10	170	100	0	9	0	164
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	0	1844	0	0	1813	1752	1463	1844	0	1631	1950	1844
Adj Flow Rate, veh/h	0	172	0	0	251	11	161	177	0	11	0	118
Peak Hour Factor	0.81	0.81	0.81	0.91	0.91	0.91	0.84	0.84	0.84	0.84	0.84	0.84
Percent Heavy Veh, %	0	7	0	0	9	13	32	7	0	21	0	7
Cap, veh/h	0	1888	0	0	1812	79	210	278		14	0	146
Arrive On Green	0.00	0.54	0.00	0.00	0.54	0.54	0.15	0.15	0.00	0.10	0.00	0.10
Sat Flow, veh/h	0	3687	0	0	3453	147	1394	1844	0	142	0	1526
Grp Volume(v), veh/h	0	172	0	0	128	134	161	177	0	129	0	0
Grp Sat Flow(s),veh/h/ln	0	1751	0	0	1722	1787	1394	1844	0	1668	0	0
Q Serve(g_s), s	0.0	1.7	0.0	0.0	2.6	2.6	7.8	6.3	0.0	5.3	0.0	0.0
Cycle Q Clear(g_c), s	0.0	1.7	0.0	0.0	2.6	2.6	7.8	6.3	0.0	5.3	0.0	0.0
Prop In Lane	0.00		0.00	0.00		0.08	1.00		0.00	0.09		0.91
Lane Grp Cap(c), veh/h	0	1888	0	0	928	963	210	278		160	0	0
V/C Ratio(X)	0.00	0.09	0.00	0.00	0.14	0.14	0.77	0.64		0.81	0.00	0.00
Avail Cap(c_a), veh/h	0	1888	0	0	928	963	338	448		167	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.95	0.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	7.8	0.0	0.0	8.0	8.0	28.5	27.9	0.0	31.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.1	0.0	0.0	0.3	0.3	5.7	2.4	0.0	23.8	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.6	0.0	0.0	1.0	1.0	2.9	2.9	0.0	3.1	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	7.9	0.0	0.0	8.4	8.3	34.2	30.3	0.0	54.8	0.0	0.0
LnGrp LOS		A			A	A	C	C		D		
Approach Vol, veh/h		172			262			338			129	
Approach Delay, s/veh		7.9			8.3			32.2			54.8	
Approach LOS		A			A			C			D	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	15.6	42.7	11.7	42.7
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	17.0	31.0	7.0	31.0
Max Q Clear Time (g_c+I1), s	9.8	0.0	7.3	0.0
Green Ext Time (p_c), s	0.8	0.0	0.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	23.9
HCM 7th LOS	C

Notes

User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	4.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	3	10	18	18	12	62	3	95	18	76	187	5
Future Vol, veh/h	3	10	18	18	12	62	3	95	18	76	187	5
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	63	63	63	73	73	73	77	77	77	88	88	88
Heavy Vehicles, %	0	20	6	6	27	2	0	10	0	0	7	0
Mvmt Flow	5	16	29	25	16	85	4	123	23	86	213	6

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	527	543	215	536	534	135	218	0	0	147	0	0
Stage 1	388	388	-	143	143	-	-	-	-	-	-	-
Stage 2	139	155	-	393	391	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.7	6.26	7.16	6.77	6.22	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.7	-	6.16	5.77	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.7	-	6.16	5.77	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4.18	3.354	3.554	4.243	3.318	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	465	423	815	449	419	914	1363	-	-	1448	-	-
Stage 1	640	579	-	851	733	-	-	-	-	-	-	-
Stage 2	868	737	-	624	566	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	376	393	815	388	389	914	1363	-	-	1448	-	-
Mov Cap-2 Maneuver	376	393	-	388	389	-	-	-	-	-	-	-
Stage 1	596	539	-	848	731	-	-	-	-	-	-	-
Stage 2	768	734	-	544	527	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	12.07	12.08	0.2	2.17
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	45	-	-	558	634	508	-	-
HCM Lane V/C Ratio	0.003	-	-	0.088	0.199	0.06	-	-
HCM Ctrl Dly (s/v)	7.6	0	-	12.1	12.1	7.6	0	-
HCM Lane LOS	A	A	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.3	0.7	0.2	-	-

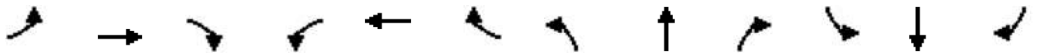
Intersection	
Int Delay, s/veh	2.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	258	8	2	92	12	39
Future Vol, veh/h	258	8	2	92	12	39
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Stop
Storage Length	-	-	175	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	87	87	84	84	41	41
Heavy Vehicles, %	4	0	0	9	9	3
Mvmt Flow	297	9	2	110	29	95

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	306	0	415	301
Stage 1	-	-	-	-	301	-
Stage 2	-	-	-	-	114	-
Critical Hdwy	-	-	4.1	-	6.49	6.23
Critical Hdwy Stg 1	-	-	-	-	5.49	-
Critical Hdwy Stg 2	-	-	-	-	5.49	-
Follow-up Hdwy	-	-	2.2	-	3.581	3.327
Pot Cap-1 Maneuver	-	-	1266	-	580	736
Stage 1	-	-	-	-	735	-
Stage 2	-	-	-	-	893	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1266	-	579	736
Mov Cap-2 Maneuver	-	-	-	-	579	-
Stage 1	-	-	-	-	735	-
Stage 2	-	-	-	-	892	-

Approach	EB	WB	NB
HCM Ctrl Dly, s/v	0	0.17	9.32
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	957	-	-	1266	-
HCM Lane V/C Ratio	0.13	-	-	0.002	-
HCM Ctrl Dly (s/v)	9.3	-	-	7.8	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0.4	-	-	0	-



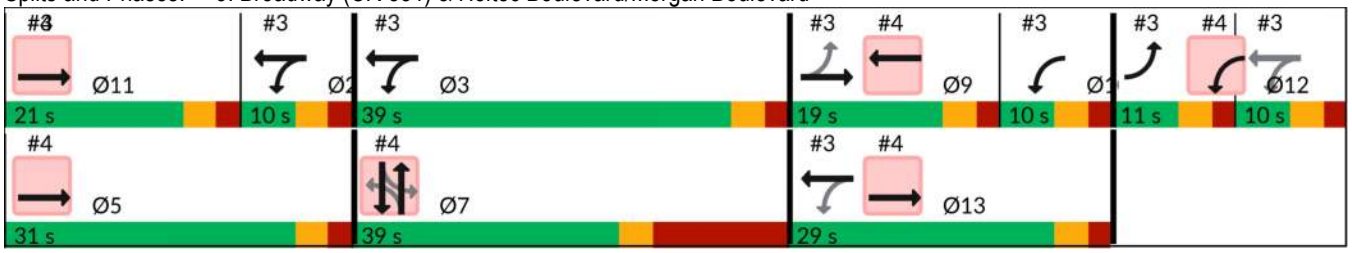
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	193	32	279	14	40	2	45	64	96	177	3
Future Volume (vph)	4	193	32	279	14	40	2	45	64	96	177	3
Ideal Flow (vphpl)	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Storage Length (ft)	190		0	100		0	315		0	375		0
Storage Lanes	1		0	1		0	1		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	0.95	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.979			0.889				0.850		0.998	
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1852	3596	0	1816	3109	0	1852	1789	1192	1764	1872	0
Flt Permitted	0.712			0.476			0.327			0.723		
Satd. Flow (perm)	1388	3596	0	910	3109	0	638	1789	1192	1343	1872	0
Right Turn on Red			Yes			Yes			No			Yes
Satd. Flow (RTOR)		13			49						1	
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		520			173			434			525	
Travel Time (s)		14.2			4.7			11.8			14.3	
Peak Hour Factor	0.80	0.80	0.80	0.81	0.81	0.81	0.87	0.87	0.87	0.90	0.90	0.90
Heavy Vehicles (%)	0%	1%	0%	2%	0%	8%	0%	9%	39%	5%	4%	0%
Adj. Flow (vph)	5	241	40	344	17	49	2	52	74	107	197	3
Shared Lane Traffic (%)												
Lane Group Flow (vph)	5	281	0	344	66	0	2	52	74	107	200	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		-2			2			-6			6	
Crosswalk Width(ft)		36			42			32			30	
Two way Left Turn Lane												
Headway Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	1		1	1		1	1	1	1	1	
Detector Template	Left	Thru		Left	Thru		Left	Thru	Right	Left	Thru	
Leading Detector (ft)	50	50		50	50		50	50	50	50	50	
Trailing Detector (ft)	-10	-10		-10	-10		-10	-10	-10	-10	-10	
Detector 1 Position(ft)	-10	-10		-10	-10		-10	-10	-10	-10	-10	
Detector 1 Size(ft)	60	60		60	60		60	60	60	60	60	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0	
Turn Type	pm+pt	NA		custom	NA		Perm	NA	Perm	Perm	NA	
Protected Phases	12	9		10 2 3	2 3 13			1			1	
Permitted Phases	9			11 13	2 11		1		1	1		
Detector Phase	12	9		10 2 3	2 3 13		1	1	1	1	1	
Switch Phase												
Minimum Initial (s)	5.0	7.0					7.0	7.0	7.0	7.0	7.0	
Minimum Split (s)	10.0	12.0					12.0	12.0	12.0	12.0	12.0	

Lane Group	Ø2	Ø3	Ø5	Ø7	Ø10	Ø11	Ø13
Lane Configurations							
Traffic Volume (vph)							
Future Volume (vph)							
Ideal Flow (vphpl)							
Storage Length (ft)							
Storage Lanes							
Taper Length (ft)							
Lane Util. Factor							
Frt							
Flt Protected							
Satd. Flow (prot)							
Flt Permitted							
Satd. Flow (perm)							
Right Turn on Red							
Satd. Flow (RTOR)							
Link Speed (mph)							
Link Distance (ft)							
Travel Time (s)							
Peak Hour Factor							
Heavy Vehicles (%)							
Adj. Flow (vph)							
Shared Lane Traffic (%)							
Lane Group Flow (vph)							
Enter Blocked Intersection							
Lane Alignment							
Median Width(ft)							
Link Offset(ft)							
Crosswalk Width(ft)							
Two way Left Turn Lane							
Headway Factor							
Turning Speed (mph)							
Number of Detectors							
Detector Template							
Leading Detector (ft)							
Trailing Detector (ft)							
Detector 1 Position(ft)							
Detector 1 Size(ft)							
Detector 1 Type							
Detector 1 Channel							
Detector 1 Extend (s)							
Detector 1 Queue (s)							
Detector 1 Delay (s)							
Turn Type							
Protected Phases	2	3	5	7	10	11	13
Permitted Phases							
Detector Phase							
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	7.0	5.0	5.0	5.0
Minimum Split (s)	10.0	10.5	10.0	22.5	10.0	10.0	10.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (s)	11.0	19.0					21.0	21.0	21.0	21.0	21.0	
Total Split (%)	9.2%	15.8%					17.5%	17.5%	17.5%	17.5%	17.5%	
Maximum Green (s)	6.0	14.0					16.0	16.0	16.0	16.0	16.0	
Yellow Time (s)	3.0	3.0					3.0	3.0	3.0	3.0	3.0	
All-Red Time (s)	2.0	2.0					2.0	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0					0.0	0.0	0.0	0.0	0.0	
Total Lost Time (s)	5.0	5.0					5.0	5.0	5.0	5.0	5.0	
Lead/Lag	Lead	Lead					Lead	Lead	Lead	Lead	Lead	
Lead-Lag Optimize?	Yes	Yes					Yes	Yes	Yes	Yes	Yes	
Vehicle Extension (s)	3.0	4.0					4.0	4.0	4.0	4.0	4.0	
Recall Mode	None	None					None	None	None	None	None	
Act Effct Green (s)	19.1	13.2		72.2	80.4		15.4	15.4	15.4	15.4	15.4	
Actuated g/C Ratio	0.17	0.12		0.65	0.72		0.14	0.14	0.14	0.14	0.14	
v/c Ratio	0.02	0.65		0.35	0.03		0.02	0.21	0.45	0.58	0.78	
Control Delay (s/veh)	30.8	53.2		5.2	0.5		45.5	47.2	55.9	60.3	68.2	
Queue Delay	0.0	0.0		0.7	0.5		0.0	0.0	0.0	0.0	0.0	
Total Delay (s/veh)	30.8	53.2		5.9	1.0		45.5	47.2	55.9	60.3	68.2	
LOS	C	D		A	A		D	D	E	E	E	
Approach Delay (s/veh)		52.9			5.2			52.2			65.4	
Approach LOS		D			A			D			E	

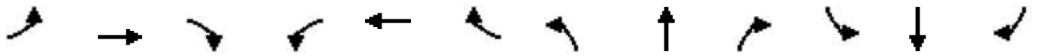
Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 111.8			
Natural Cycle: 100			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.89			
Intersection Signal Delay (s/veh): 38.9		Intersection LOS: D	
Intersection Capacity Utilization 45.6%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 3: Broadway (CR 551) & Holtec Boulevard/Morgan Boulevard



Lane Group	Ø2	Ø3	Ø5	Ø7	Ø10	Ø11	Ø13
Total Split (s)	10.0	39.0	31.0	39.0	10.0	10.0	29.0
Total Split (%)	8%	33%	26%	33%	8%	8%	24%
Maximum Green (s)	5.0	34.0	26.0	24.0	5.0	5.0	24.0
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
All-Red Time (s)	2.0	2.0	2.0	12.0	2.0	2.0	2.0
Lost Time Adjust (s)							
Total Lost Time (s)							
Lead/Lag	Lag				Lag	Lag	
Lead-Lag Optimize?	Yes				Yes	Yes	
Vehicle Extension (s)	4.0	3.0	3.0	4.0	3.0	3.0	3.0
Recall Mode	Max	None	None	None	None	None	None
Act Effct Green (s)							
Actuated g/C Ratio							
v/c Ratio							
Control Delay (s/veh)							
Queue Delay							
Total Delay (s/veh)							
LOS							
Approach Delay (s/veh)							
Approach LOS							

Intersection Summary



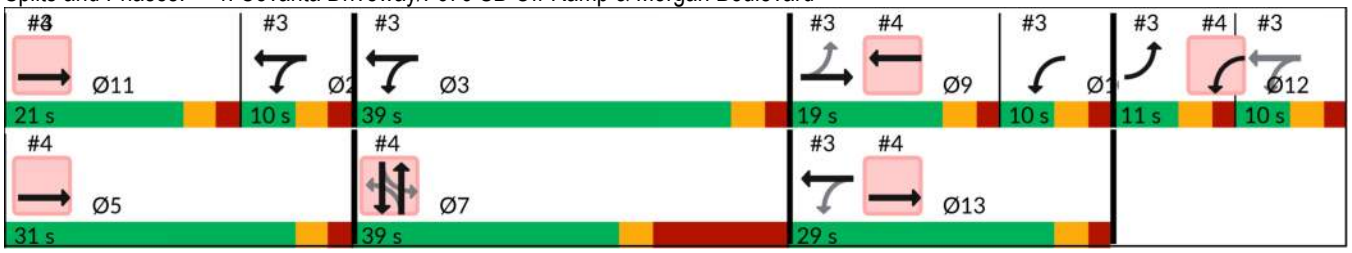
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	354	2	5	63	0	1	0	21	222	1	273
Future Volume (vph)	0	354	2	5	63	0	1	0	21	222	1	273
Ideal Flow (vphpl)	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950	1950
Storage Length (ft)	0		0	115		0	0		0	250		0
Storage Lanes	0		0	1		0	0		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	0.95	0.95	1.00	0.95	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.999						0.870			0.850	
Flt Protected				0.950				0.998		0.950		
Satd. Flow (prot)	0	3390	0	1158	3529	0	0	1192	0	1799	1641	0
Flt Permitted				0.950				0.977		0.738		
Satd. Flow (perm)	0	3390	0	1158	3529	0	0	1167	0	1397	1641	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		1						245			329	
Link Speed (mph)		25			25			25			25	
Link Distance (ft)		173			781			270			419	
Travel Time (s)		4.7			21.3			7.4			11.4	
Peak Hour Factor	0.82	0.82	0.82	0.76	0.76	0.76	0.75	0.75	0.75	0.83	0.83	0.83
Heavy Vehicles (%)	0%	9%	50%	60%	5%	0%	100%	0%	40%	3%	0%	1%
Adj. Flow (vph)	0	432	2	7	83	0	1	0	28	267	1	329
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	434	0	7	83	0	0	29	0	267	330	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			0			12	
Link Offset(ft)		0			-4			0			4	
Crosswalk Width(ft)		16			38			22			26	
Two way Left Turn Lane												
Headway Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors		1		1	1			1		1	1	
Detector Template		Thru		Left	Thru			Thru		Left	Thru	
Leading Detector (ft)		50		50	50			50		50	50	
Trailing Detector (ft)		-10		-10	-10			-10		-10	-10	
Detector 1 Position(ft)		-10		-10	-10			-10		-10	-10	
Detector 1 Size(ft)		60		60	60			60		60	60	
Detector 1 Type		Cl+Ex		Cl+Ex	Cl+Ex			Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Detector 1 Queue (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Detector 1 Delay (s)		0.0		0.0	0.0			0.0		0.0	0.0	
Turn Type		NA		Prot	NA		Perm	NA		Perm	NA	
Protected Phases		5 13 11		12	9			7			7	
Permitted Phases							7			7	7	
Detector Phase		5 13 11		12	9		7	7		7	7	
Switch Phase												
Minimum Initial (s)				5.0	7.0		7.0	7.0		7.0	7.0	
Minimum Split (s)				10.0	12.0		22.5	22.5		22.5	22.5	

Lane Group	Ø1	Ø2	Ø3	Ø5	Ø10	Ø11	Ø13
Lane Configurations							
Traffic Volume (vph)							
Future Volume (vph)							
Ideal Flow (vphpl)							
Storage Length (ft)							
Storage Lanes							
Taper Length (ft)							
Lane Util. Factor							
Frt							
Flt Protected							
Satd. Flow (prot)							
Flt Permitted							
Satd. Flow (perm)							
Right Turn on Red							
Satd. Flow (RTOR)							
Link Speed (mph)							
Link Distance (ft)							
Travel Time (s)							
Peak Hour Factor							
Heavy Vehicles (%)							
Adj. Flow (vph)							
Shared Lane Traffic (%)							
Lane Group Flow (vph)							
Enter Blocked Intersection							
Lane Alignment							
Median Width(ft)							
Link Offset(ft)							
Crosswalk Width(ft)							
Two way Left Turn Lane							
Headway Factor							
Turning Speed (mph)							
Number of Detectors							
Detector Template							
Leading Detector (ft)							
Trailing Detector (ft)							
Detector 1 Position(ft)							
Detector 1 Size(ft)							
Detector 1 Type							
Detector 1 Channel							
Detector 1 Extend (s)							
Detector 1 Queue (s)							
Detector 1 Delay (s)							
Turn Type							
Protected Phases	1	2	3	5	10	11	13
Permitted Phases							
Detector Phase							
Switch Phase							
Minimum Initial (s)	7.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	12.0	10.0	10.5	10.0	10.0	10.0	10.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (s)				11.0	19.0		39.0	39.0		39.0	39.0	
Total Split (%)				9.2%	15.8%		32.5%	32.5%		32.5%	32.5%	
Maximum Green (s)				6.0	14.0		24.0	24.0		24.0	24.0	
Yellow Time (s)				3.0	3.0		3.0	3.0		3.0	3.0	
All-Red Time (s)				2.0	2.0		12.0	12.0		12.0	12.0	
Lost Time Adjust (s)				0.0	0.0			0.0		0.0	0.0	
Total Lost Time (s)				5.0	5.0			15.0		15.0	15.0	
Lead/Lag				Lead	Lead							
Lead-Lag Optimize?				Yes	Yes							
Vehicle Extension (s)				3.0	4.0		4.0	4.0		4.0	4.0	
Recall Mode				None	None		None	None		None	None	
Act Effct Green (s)		61.8		5.9	13.2			23.9		23.9	23.9	
Actuated g/C Ratio		0.55		0.05	0.12			0.21		0.21	0.21	
v/c Ratio		0.23		0.12	0.20			0.07		0.89	0.54	
Control Delay (s/veh)		0.8		58.2	47.3			0.3		75.6	8.1	
Queue Delay		0.6		0.0	0.0			0.0		0.0	0.0	
Total Delay (s/veh)		1.3		58.2	47.3			0.3		75.6	8.1	
LOS		A		E	D			A		E	A	
Approach Delay (s/veh)		1.3			48.2			0.3			38.3	
Approach LOS		A			D			A			D	

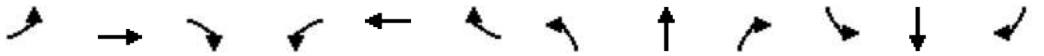
Intersection Summary			
Area Type:	Other		
Cycle Length: 120			
Actuated Cycle Length: 111.8			
Natural Cycle: 100			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.89			
Intersection Signal Delay (s/veh): 24.2		Intersection LOS: C	
Intersection Capacity Utilization 44.9%		ICU Level of Service A	
Analysis Period (min) 15			

Splits and Phases: 4: Covanta Driveway/I-676 SB Off-Ramp & Morgan Boulevard



Lane Group	Ø1	Ø2	Ø3	Ø5	Ø10	Ø11	Ø13
Total Split (s)	21.0	10.0	39.0	31.0	10.0	10.0	29.0
Total Split (%)	18%	8%	33%	26%	8%	8%	24%
Maximum Green (s)	16.0	5.0	34.0	26.0	5.0	5.0	24.0
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)							
Total Lost Time (s)							
Lead/Lag	Lead	Lag			Lag	Lag	
Lead-Lag Optimize?	Yes	Yes			Yes	Yes	
Vehicle Extension (s)	4.0	4.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	Max	None	None	None	None	None
Act Effct Green (s)							
Actuated g/C Ratio							
v/c Ratio							
Control Delay (s/veh)							
Queue Delay							
Total Delay (s/veh)							
LOS							
Approach Delay (s/veh)							
Approach LOS							

Intersection Summary



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	232	0	0	238	17	53	114	0	18	0	225
Future Volume (veh/h)	0	232	0	0	238	17	53	114	0	18	0	225
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	0	1844	0	0	1828	1950	1113	1889	0	1859	1950	1920
Adj Flow Rate, veh/h	0	309	0	0	259	18	62	134	0	19	0	112
Peak Hour Factor	0.75	0.75	0.75	0.92	0.92	0.92	0.85	0.85	0.85	0.95	0.95	0.95
Percent Heavy Veh, %	0	7	0	0	8	0	55	4	0	6	0	2
Cap, veh/h	0	1924	0	0	1811	125	148	264		24	0	139
Arrive On Green	0.00	0.55	0.00	0.00	0.55	0.55	0.14	0.14	0.00	0.10	0.00	0.10
Sat Flow, veh/h	0	3687	0	0	3388	228	1060	1889	0	244	0	1436
Grp Volume(v), veh/h	0	309	0	0	136	141	62	134	0	131	0	0
Grp Sat Flow(s),veh/h/ln	0	1751	0	0	1737	1787	1060	1889	0	1679	0	0
Q Serve(g_s), s	0.0	3.1	0.0	0.0	2.7	2.7	3.7	4.6	0.0	5.3	0.0	0.0
Cycle Q Clear(g_c), s	0.0	3.1	0.0	0.0	2.7	2.7	3.7	4.6	0.0	5.3	0.0	0.0
Prop In Lane	0.00		0.00	0.00		0.13	1.00		0.00	0.15		0.85
Lane Grp Cap(c), veh/h	0	1924	0	0	954	982	148	264		163	0	0
V/C Ratio(X)	0.00	0.16	0.00	0.00	0.14	0.14	0.42	0.51		0.81	0.00	0.00
Avail Cap(c_a), veh/h	0	1924	0	0	954	982	258	459		168	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	0.87	0.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	7.8	0.0	0.0	7.7	7.7	27.5	27.9	0.0	31.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.2	0.0	0.0	0.3	0.3	1.9	1.5	0.0	23.7	0.0	0.0
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.1	0.0	0.0	1.0	1.0	1.0	2.1	0.0	3.2	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	0.0	8.0	0.0	0.0	8.0	8.0	29.4	29.4	0.0	54.7	0.0	0.0
LnGrp LOS		A			A	A	C	C		D		
Approach Vol, veh/h		309			277			196			131	
Approach Delay, s/veh		8.0			8.0			29.4			54.7	
Approach LOS		A			A			C			D	

Timer - Assigned Phs	2	4	6	8
Phs Duration (G+Y+Rc), s	14.8	43.4	11.8	43.4
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	17.0	31.0	7.0	31.0
Max Q Clear Time (g_c+I1), s	6.6	0.0	7.3	0.0
Green Ext Time (p_c), s	0.5	0.0	0.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	19.3
HCM 7th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

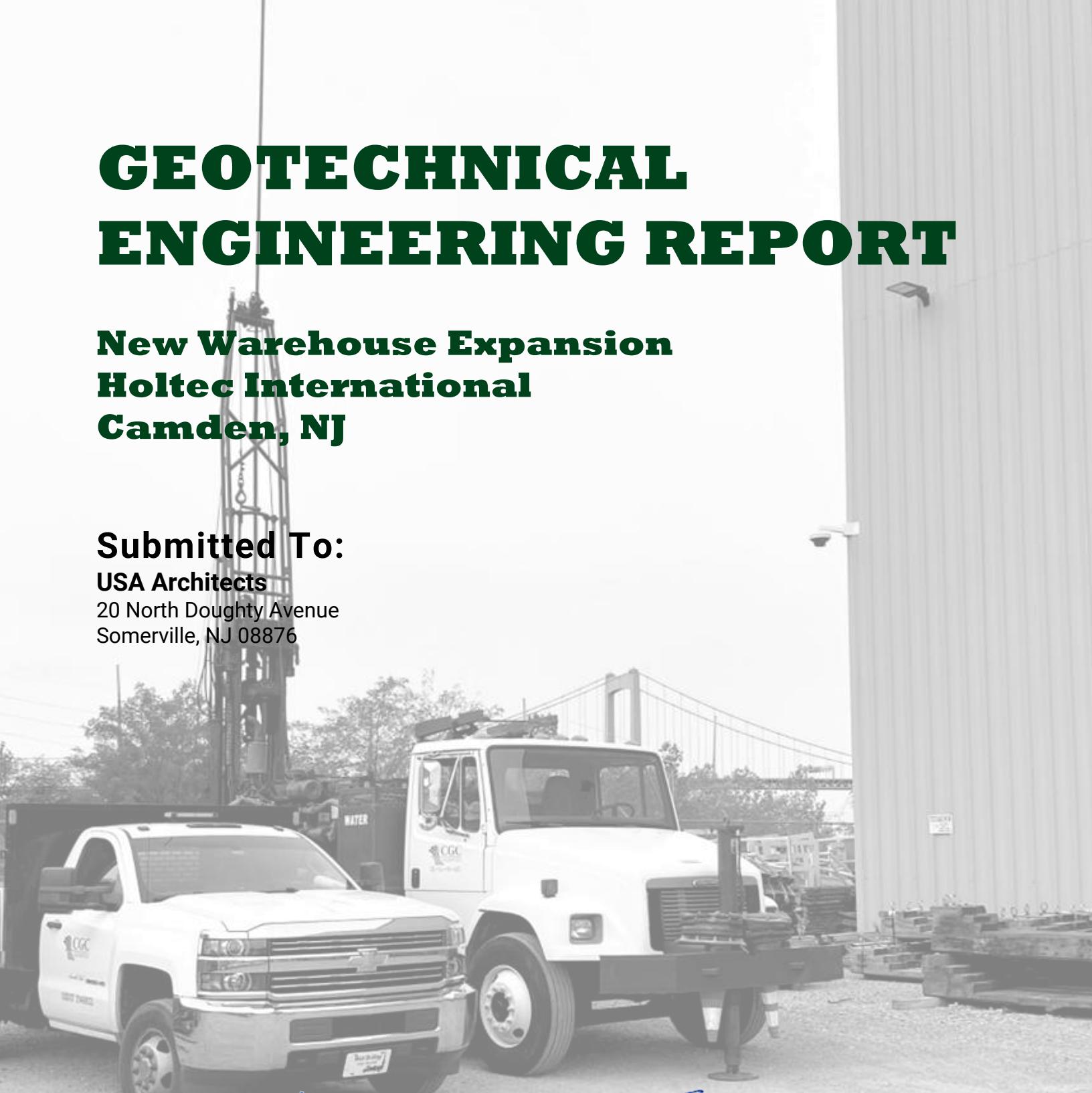
Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

GEOTECHNICAL ENGINEERING REPORT

New Warehouse Expansion
Holtec International
Camden, NJ

Submitted To:

USA Architects
20 North Doughty Avenue
Somerville, NJ 08876



Murat Arkan, PE
Geotechnical Senior Engineer

Eli G. Brinker, EIT
Geotechnical Associate Engineer

STATE OF NEW JERSEY
HALIL M. ARKAN
No. GE45891
LICENSED PROFESSIONAL ENGINEER

USATX24001
September 9, 2024
(revised March 16, 2026)

Pennoni

September 9, 2024 (revised March 16, 2026)

USTAX24001

USA Architects
Attn: Mr. Michael Bryson, CDT
Associate, Senior Project Manager
20 North Doughty Avenue
Somerville, NJ 08876

RE: Geotechnical Engineering Services
Holtec International - New Warehouse Expansion
Camden, NJ

Dear Mr. Bryson:

We are pleased to submit our geotechnical engineering report for the new warehouse expansion project at the Holtec International facility in Camden, NJ. This study was initiated in general accordance with our proposal dated June 27, 2024, and your subsequent authorization to proceed.

This revised report includes recommendations for ground improvements alternative related to the foundations and the floor slab.

We trust that the information presented in this report is what you require at this time, and we thank you for the opportunity to assist you with this project. If you have any questions, or if you need any further assistance with this project, please contact this office at your earliest convenience.

Respectfully,

PENNONI ASSOCIATES INC.

Murat Arkan, PE
Geotechnical Senior Engineer

Eli G. Brinker, EIT
Geotechnical Associate Engineer

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1.0 Executive Summary

The results of our geotechnical study are summarized below. The executive summary should be used in conjunction with the body of the report as it details our recommendations.

PROPOSED CONSTRUCTION AND SITE CONDITIONS		*SECTION(S)*
Proposed Construction	Specific details regarding building construction such as column loads, column spacings, finish floor elevations, etc., are not currently available. We anticipate building construction similar to the existing with estimated column loads of 600 to 800 kips and floor slab live loads on the order of 1.7 ksf.	2.1
Surface Materials	4 to 10 ft thick layer of fill with a thin layer of gravel at the surface. Grass landscaped areas and asphalt surface surround the proposed area of the new warehouse.	4.1, 4.2
Subsoils	F – FILL: Gray to black to brown coarse to medium to fine SAND with varying amounts of coarse to fine gravel sized Rock and Asphalt Fragments, little to trace Silt; loose to very dense 1 – Gray to dark gray Clayey SILT, little to trace fine to medium Sand; very loose/soft to very dense/very hard 2 – Dary gray Clayey SILT, some coarse to fine Sand; loose/ medium stiff to very dense/hard 3 – Dark gray to brown coarse to medium to fine SAND some coarse to fine rounded Gravel, varying amounts of silt; medium dense to very dense 4 - Multicolored fine to medium to coarse SAND, varying amounts of gravel and silt. Very dense	4.2
Field Work	5 SPT borings advanced from 40 to 50 ft below the ground surface.	3.1
Cuts/Fills	Minor cuts and fills are anticipated depending on final building location.	5.1

RECOMMENDATIONS		*SECTION(S)*
Seismic Site Class	D – stiff soil, in accordance with IBC 2018.	5.5
Lift Thickness and Compaction Requirements	Fine Grained Soil – 8 to 10 in. thick layers loose measure; Granular Soil – 10 to 12 in. thick layers loose measure; Foundations and floor slab 98% and 95% (modified Proctor), respectively.	5.1
Foundations	16 in. diameter Steel Pipe Piles on the order of 30 to 55 ft long. Alternatively, the building can be supported by a conventional shallow spread footing system after the application of a ground improvement utilizing Rigid Inclusions (RIs).	5.2
Settlement	Where piles (deep foundations) are selected for support of the facilities, elastic deformations will control the amount of observed settlement. Spread footings with ground improvement will result in total settlements less than 1 inch.	5.4
Frost Depth	36 in. below finished exterior grades	5.2
Groundwater (GW)	Evidence of groundwater was encountered in the borings at varying depths and elevations. Recent borings encountered groundwater between elev. -9.5 to -16.5	4.3, 5.7
Floor Slabs	Structural Slab that is Pile Supported. Alternatively, Rigid Inclusions can be used to support the floor slab to allow for slab to be constructed on-grade.	5.3
Special Considerations	Project site is in a previously developed urban environment. Old foundations, floor slabs, etc. may be encountered during construction. Vibration monitoring is recommended.	5.8, 5.9, 5.10

2.0 Introduction

2.1 Proposed Construction

The project is a new warehouse measuring approximately 75,000 sf to be located immediately east of the existing warehouse within the Holtec facility in Camden, New Jersey. Because the project is in the early stages of design and planning, specific details such as column loads, spacings, finish floor elevation (FFE), etc., are not currently available. We anticipate that the proposed new warehouse building will be a one-story, steel-frame, high ceiling structure with loading docks similar in construction to the existing warehouse with a similar FFE.

Because structural information is not currently available, we assumed axial compression column loads on the order of 600 to 800 kips, and floor slab live loads of 1.70 ksf based on the adjacent building use. The new warehouse will also have two, 50-ton cranes.

2.2 Objectives

The objectives of this geotechnical study were to determine subsurface conditions at the project site, evaluate these conditions with respect to the proposed construction, and present our conclusions and recommendations. Our geotechnical engineering report includes recommendations for the following:

- foundation design, including discussion of alternate solutions if applicable, allowable bearing capacity and anticipated total and differential settlements;
- design frost depth;
- modulus of subgrade reaction;
- feasibility of slab-on-grade vs supported;
- discussion of potential for consolidation and/or differential settlements of substrata encountered;
- soil Seismic Site Classification in accordance with the applicable version of the International Building Code;
- evaluation and determination of the earthwork requirements for use in preparation of the building area, including material selection and placement operations;
- suitability of on-site material for re-use as fill as part of the site work for the project;
- groundwater conditions;
- estimated CBR value for pavement design;
- removal or treatment of objectionable material; and
  quality assurance, field-testing and observation during construction.

3.0 Field and Laboratory Work

3.1 Field Work

On July 22 and 23, 2024, five Standard Penetration Test (SPT) borings were drilled by CGC Geoservices, LLC., at the approximate locations presented on Drawing LP-1. Representative samples were obtained in general accordance with ASTM D 1586 methods. Boring locations were selected and established in the field by Pennoni personnel. Appendix A includes the boring logs and the boring location plan (Drawing LP-1).

Our M. Arkan, PE directed the field work; our O. Sidwell, EIT provided full-time observation of the test borings.

3.2 Laboratory Work

The soil samples collected during our field study were delivered to our laboratory for testing. Table 1 below summarizes the geotechnical laboratory program.

Table 1: Geotechnical Laboratory Program

TEST	ASTM NO.	NUMBER OF TESTS
Moisture Content	D 2216	4
Sieve Analysis	D 422	3
Atterberg Limits	D 4318	1
Unconfined Compression (Soil)	D 2166	1
Unit Weight	D 7263	1

Appendix B includes the laboratory testing results and a list of testing procedures.

4.0 Site Characteristics

4.1 Location and Surface Features

The project site is located at Holtec Manufacturing Facility in Camden, Camden County, New Jersey. Specifically, the proposed warehouse is located immediately east of the existing Warehouse Building. The new warehouse location is currently in a developed part of the site. The site is bounded by Holtec Boulevard to the north, Broadway loop (County Road 551) to the east and south, and existing Holtec Warehouse to the west.



Figure 1: Site Location

The site currently serves as a miscellaneous storage/yard area for the Holtec facility. The ground cover appears to be a 70 to 80 ft wide gravel driveway for equipment access, then to the east of the gravel drive is a grass landscaped area enclosed by a black security fence. The topography of the site is relatively flat at or near elevation Elev. 12.0, descending to the east at Elev. 10.0, over a distance of 125 ft.

Evidence of below grade utilities was observed within the project site. Utilities include but are not limited to below grade electric, stormwater, potable water, and sanitary sewer. In addition, main gas line exists just east of the project area.

4.2 Geology

The project site is located within the Atlantic Coastal Plain Physiographic Province of New Jersey, which is characterized by flat terrain and unconsolidated sediment deposits. Available geologic data indicate that the site is underlain by the Magothy and Potomac Formation. The Magothy Formation consists of fine to coarse grained sand and quartz (locally gravelly) interbedded with thin-bedded clay or clay-silt. The Potomac Formation consists of fine to coarse grained sand (locally gravelly) interbedded with white or variegated red and yellow, massive clay, and rarely dark-gray clay.

4.2 Subsoils

The borings revealed a 4 to 10 ft. thick fill layer below the gravel driveway area. The underlying subsoils, including the fill, have been grouped into five principal strata based on their engineering properties and our interpretation of their origin. Brief strata descriptions are presented in Table 2 below.

Table 2: Strata Descriptions

STRATUM	THICKNESS (FT)	DESCRIPTION
F	4-10	FILL: Gray to black to brown coarse to medium to fine SAND with varying amounts of coarse to fine gravel sized Rock and Asphalt Fragments, little to trace Silt; loose to very dense
1	0-16.5	Gray to dark gray Clayey SILT, little to trace fine to medium Sand; very loose/soft to very dense/very hard
2	5-16	Dary gray Clayey SILT, some coarse to fine Sand; loose/ medium stiff to very dense/hard
3	1-34	Dark gray to brown coarse to medium to fine SAND some coarse to fine rounded Gravel, varying amounts of silt; medium dense to very dense
4	NA	Multicolored fine to medium to coarse SAND, varying amounts of gravel and silt. Very dense

4.3 Groundwater

Observations for groundwater were made in the borings during and shortly after drilling. Evidence of groundwater was encountered 21 ft to 28 ft below existing grades (Elev. -9.5 to Elev. -16.5). Groundwater observations are for the times noted on the logs and may not reflect daily or seasonal fluctuations in the groundwater elevations. It should be noted that the Delaware River is located west of the site. The regional groundwater level is expected to be at or near the mean river level elevation at this site and may also be influenced by daily tidal variations of the river.

5.0 Analysis and Recommendations

5.1 Earthwork

Prior to construction of the building foundations and floor slabs, existing pavements and any topsoil/vegetation should be removed from the area of the proposed construction. Live underground utilities that are impacted by the new building should be rerouted outside the area of proposed new building footprint. Utility pipes to be abandoned may be left in place provided that they are completely filled with concrete or grout, and do not conflict with the new foundations.

After the above operations, exposed subgrades should be thoroughly proof-rolled in the presence of a representative from Pennoni using a loaded dump truck or a minimum 10-ton vibratory roller. Where space is limited subgrade soils should be manually probed in an attempt to disclose unstable surface areas. Any unstable surface areas (soft, yielding, etc.) found should be stabilized by excavating and replacing those soils with suitable soil that is adequately compacted. This can be accomplished by properly adjusting the moisture content of the subgrade soils and compacting them, or by other methods (placing a geotextile and stone layer, etc. or soil exchange).

Our experience indicates that the clean/inert portions of the on-site soils of Stratum F can be reused for earthwork construction provided all organics and debris larger than 3 inches in its greatest dimension be removed prior to reuse and that there are no environmental concerns associated with the soils. Laboratory testing indicates that the near surface soils of Stratum F consist predominantly of sand with some fines (silt/clay) up to 27.0%. Additionally, the present moisture content (11.6%) of these soils is close to slightly above the optimum moisture content normally associated with these soils to achieve desired degree of compaction. Adjusting the moisture content prior to reuse should be anticipated. Provisions for importing structural fill should be included in the contract documents.

If necessary, imported structural fill should be selected from suitable borrow sources and be approved by the Geotechnical Engineer well in advance of fill construction. Granular fill ideally should consist of well-graded material with not more than 20 percent passing the No. 200 sieve and have a plasticity index not greater than 8 percent; NJDOT I-5 or recycled concrete with a gradation similar to that described above with a maximum particle size of 3 in. can be considered and crushed aggregate such as AASHTO #57 stone should be considered for fill placement below groundwater levels. Other gradations can be considered based on laboratory testing and at the discretion of the Geotechnical Engineer.

Fine grained and granular fills should be placed in layers not exceeding 8 to 10 in. and 10 to 12 in. loose thickness, respectively. This criterion might be adjusted by the geotechnical engineer in the field depending on the conditions present at the time of construction, on the compaction equipment used, and on the fill materials selected. Table 3 below presents the compaction requirements.

Table 3: Compaction Requirements

FILLS SUPPORTING	MODIFIED PROCTOR (ASTM D1557)
Site fills	95%
Pavements	93%

Fills should be compacted to ASTM D 1557 percentages of the laboratory determined maximum dry density, when self-propelled, heavy-duty construction equipment is used. Fills should extend a minimum of 5 ft beyond the exterior edge of a loaded area and have side slopes not steeper than 2 horizontal to 1 vertical.

Specifications for the frequency of compaction testing should meet the following criteria:

1. Paved and Building Slab Areas: Each compacted fill and backfill layer, at least one test for every 2,500 sq. ft., but in no case fewer than three tests per lift.
2. Trench Backfill: At each compacted initial and final backfill layer, at least one test for every 100 ft or less of trench length, but no fewer than two tests.

Specifications should indicate that the percentage of maximum dry density attained in the field is not the only criteria to be used for assessing fill compaction. Observation of the behavior of the fill under the loads of construction equipment should also be used. If the test results indicate that the percentage of compaction is being achieved, but the soil mass is moving under the equipment, placement of additional fill should not be continued until the movement is stabilized. Otherwise, settlement of the fill may occur.

We recommend that all site preparation and earthwork operations be carried out in the full-time presence of a qualified representative of the Geotechnical Engineer.

5.2 Foundations

The significant subsoil strata affecting the selection of the most feasible foundation scheme for this project is the existing very soft to soft clayey silt layer (Stratum 1) or loose portions of sandy soils (Stratum 2).

We have carried out detailed analyses to determine the most suitable foundation system for this project based on the results of our field and laboratory investigations and using the structural data we have been provided. Because of the presence of a very soft to soft highly compressible clayey silt deposit (Stratum 1), or loose sands (Stratum 2) at depths of approximately 10 to 30 ft below grade, the use of shallow footings for foundations and slab-on-grade construction for the floor slabs will not be feasible for this project without the application of ground modification, which will be discussed later in this report. Therefore, deep foundations, i.e., steel pipe piles are recommended as the most immediate foundation scheme for the proposed warehouse building. In connection with the use of piles for foundations, the concrete floor slab of the proposed warehouse building will have to be a structural slab also supported by piles.

As an alternative to deep foundations, the proposed warehouse building can be also supported by a conventional shallow spread footing system after the application of a ground improvement technique such as Rigid Inclusions (RIs) are feasible for this project from a geotechnical engineering standpoint. RIs provide confinement in weak soils and settlement control for heavily loaded structures.

The two types of foundations are described in detail separately, in the following sections of this report. We recommend that the actual scheme to be employed be selected based on detailed cost comparisons after design input from the Structural Engineer and specialty foundation contractors regarding the two foundation systems.

5.2.1 Deep Foundations

We are aware that the existing facility is supported by 16 in. diameter steel pipe piles with a 0.5 in. wall thickness. For this project we recommend similar steel pipe piles be used for the foundations. Following is a summary of the foundation recommendations.

Based on the information we have for the adjacent warehouse building and the expected loading requirements for this project, 16 in. diameter concrete filled closed-end steel pipe piles can be considered for support of the new warehouse. Steel pipe piles should penetrate through the clayey silt layers (Strata 1 & 2) and should develop their vertical compression capacity by a combination of skin friction and end bearing in the dense to very dense sands of Strata 3 or 4. We estimate that a 16 in. diameter steel pipe pile penetrating 10 to 12 ft into the dense sand stratum will develop an

allowable axial capacity of about 180 tons per pile. However, a maximum allowable working load capacity of 175 tons per pile should be used in design, the difference in the two values accounting for downdrag (negative skin friction).

In addition to the allowable vertical compression capacity, an allowable uplift capacity on the order of 38 tons per pile and an allowable lateral load capacity of 8 tons per pile may be used in design. Batter piles, if required, should be designed for a minimum batter, but in no case steeper than 1 horizontal to 4 vertical.

Piles in the area of our boring B-1 are expected to be on the order of 45 to 55 ft long, whereas piles in the areas near our borings B-2, B-3, B-4, and B-5 are expected to be on the order of 25 to 30 ft long.

The steel pipe pile should conform to ASTM A-252, Grade 3, specifications. The piles should have a flat boot plate of at least 1 in. thickness fully welded at the tip and flush with the outside wall of the pipe (no projection). The minimum pile spacing should be at least 3 times the pile diameter). The concrete fill in the pipe piles should have a minimum 28 day strength of 4,000 psi. Splices for piles required to have tension or bending load capacity should be full butt-welds, whereas piles carrying compression loads only may use approved commercially available “drive fit” splicers, such as Model S18000 manufactured by Associated Pile and Fitting Corporation or approved equal.

All piles should be driven within the following maximum tolerances:

1. Location: 4 in. from the location indicated after initial driving, and 6 inches after pile driving is completed,
2. Plumb: Maintain 1 in. in 10 ft from the vertical, or a maximum of 4 inches measured when the pile is above ground in leads,
3. Batter Angle: Maximum 1 in. in 10 ft from required angle, measured when pile is above ground in leads.

To facilitate pile installations, the piles may be installed by pre-augering, excavating, or pre-jetting through upper portions of the fill layer, if necessary. After pre-augering, excavating, or pre-jetting, the piles should be driven into the dense sands of Strata 3 or 4, to attain the recommended design capacities.

Piles should be driven through Strata F, 1, and 2, and seated within Strata 3 or 4 where they would develop the recommended allowable capacity. The installation of steel pipe piles to develop the recommended pile capacities should be done in accordance with a suitable dynamic formula, such as the Wave Equation, Modified Engineering News Formula, etc. Approved equipment, including a hammer having a rated energy of at least 75,000 ft-lbs, should be used to drive the piles. Prior to the installation of the production piles, at least six “drive test piles” or “indicator piles” should be installed over the project site, at locations to be selected by the Geotechnical Engineer to determine the pile driving characteristics and the required pile lengths more accurately.

We recommend dynamic load testing (ASTM D4945) for this project in lieu of a static load test. We recommend that piles be instrumented and monitored by a Pile Driving Analyzer (PDA) during the installation of “indicator piles”. The indicator piles should be monitored continuously by PDA, during initial drive and restrike. The indicator test piles can be at product pile locations.

All pile installation, including the drive test piles, should be carried out in the full-time presence of a qualified representative of the Geotechnical Engineer who should evaluate and correlate the driving data and depth of penetration of each pile with the results of the drive test piles, our static analyses, and the boring log data. The Geotechnical Engineer's representative should ensure that the tip of each

pile is located satisfactorily in the dense sands of Strata 3 or 4, and that the required driving resistance of each pile is attained.

With the use of the pile foundations as recommended, it is expected that total and differential settlements will be negligible.

5.2.2 Shallow Foundations with Ground Improvement

As mentioned above, the existing very soft to soft clayey silt layer or loose sand deposit (Strata 1 or 2) encountered between the approximate depths of 10 and 30 ft below grade, do not permit ready use of shallow footings. As an alternative to deep foundations, consideration may be given to the application of ground modification beneath proposed shallow foundations to improve the load carrying capabilities of the subgrade soils. For the proposed structure, ground improvement such as Rigid Inclusions (RIs) can be considered. This ground improvement technique is applicable in very soft to soft clayey silt layers or loose sand deposits, such as the Strata 1 and 2 encountered in our borings.

RIs are ground modification elements that improve the existing soil conditions to reduce both total and differential settlements by increasing the overall stiffness of the soil mass. A load transfer platform (LTP), sometimes reinforced with a geogrid, is then constructed above the RIs using granular fill with a thickness that may vary from 12 to 36 inches. In this project, the new fill to be placed in the building area may act as the LTP and will need to be placed and compacted as recommended in Earthwork section of this report.

RIs are typically installed on a grid or linear pattern below the proposed foundations or floor slabs by a drill rig with a specially designed displacement auger that drills down to the designed termination depth followed by a controlled low-pressure grouting (concrete, grout, or grouted-aggregate) during extraction. The installation of the RIs results in generating minimal auger spoils and vibration. Spread footings can then be designed to bear above the RIs within an aggregate LTP layer. Maximum allowable net bearing capacities of up to 5,000 psf can be achieved with this system.

RIs are a design-build system and installed by reputable ground improvement firms such as Menard, Keller North America, and Geopier Foundation Company among others. Ground improvement such as this is typically specified as a performance specification with the desired bearing capacity and settlement being indicated. Spread footings bearing on these piers can be sized for a composite bearing pressure of up to 5,000 psf resulting in desirable footing sizes with total settlements limited to less than 1 inch.

Continuous and isolated footings should be at least 1.5 ft wide and 3 ft square, respectively, to prevent localized shear failure in soil. The subgrade of all exterior footings exposed to freezing temperatures, during construction and/or the life of the structure should be established at least 36 in. below adjacent exposed grades or otherwise protected against frost action. Foundation subgrades should be checked by a representative of Pennoni Associates Inc. to confirm conditions suitable for support of the design bearing pressure. Where an area is questionable, it should be further explored and/or remedied by removal and replacement of unsuitable material.

5.3 Floor Slab

5.3.1 Structural Slab

Due to anticipated high floor slab live loads, the proposed new floor slabs should be designed as a structural slab supported by grade beams and piles or designed as "flat plates" supported by piles. Any new fills required to attain level finished floor subgrades should be placed and compacted per section 5.1 of this report, to serve as forms for the slabs and other cast-in-place construction. Placed fills may settle unevenly from the bottom of the slabs due to consolidation of the thicker layers of soft material encountered in B-1 and B-2. Additionally, if there are underslab utilities they should be hung or suspended underneath the structural slab to prevent differential settlements of utilities and further damage or differential movement. Flexible connections are recommended where suspended pipes meet outside pipes and utilities that may not be pile supported.

5.3.2 Slab-on-Grade

If RIs are selected for foundation support, these elements can also be used to support the floor slab. This option will allow for construction of shallow spread foundations and allow for the floor slab to be constructed on-grade. Threadbars (steel rods) can be inserted into RIs to provide uplift resistance, as necessary.

The floor slab can be designed using a modulus of vertical subgrade reaction (k_v) of 175 pci. This slab can be founded on a newly compacted, granular load bearing fill and/or densified in-situ soils.

A 6 in. thick free-draining granular base course should be placed beneath the floor slab to provide a uniform bearing surface and to aid in the proper curing of the floor slab concrete. At least 6 in. should be maintained between the bottom of the floor slab and the tops of the foundations to minimize the potential for floor slab cracking at the foundation edges or the slabs should be designed accordingly to minimize cracking. The floor slab should be isolated from other structural elements of the building to allow for independent movements.

5.4 Settlement

Settlement of a soil mass is a function of the characteristics of the supporting soils (type of soil, void ratio, pre-consolidation, etc.), the thickness of the layer(s), and the stresses imposed on the soils by an applied load (fill, shallow foundations, floor slab, etc.). The stresses affecting subsoils generally decrease with increasing depth and are variable based on the magnitude and area of applied loading.

Where piles (deep foundations) are selected for support of the facilities, elastic deformation of the piles will control the amount of observed settlement. If more stringent settlement design tolerances are required, the Structural Engineer or Architect should notify the geotechnical engineer and the pile contractor.

5.5 Seismic Site Classification

The borings disclosed subsurface conditions generally described according to the Table 20.3-1 of ASCE 7 and referenced in Section 1613.3 of the 2018 International Building Code (IBC) as having a soil-profile corresponding to Site Class D – stiff soil. Site Class Determination is based on the properties in the upper 100 feet of the ground surface. The borings performed herein were advanced to a maximum depth of 63.9 feet. Values beyond 63.9 feet were estimated based on our local experience in this area.

5.6 Lateral Earth Pressure Parameters

The soil parameters presented in Table 4 can be used to estimate lateral earth pressures on below grade structures and temporary shoring. If the top of the structure is restrained from movement, thereby preventing the mobilization of active soil pressures, the structure should be designed using the at-rest pressure coefficient, ko.

The earth pressure coefficients are based on the assumption of vertical walls, horizontal backfill, no surcharges, no wall friction, and a safety factor of 1.0. Hydrostatic pressures associated with seepage must also be considered in the design. Depending on the type of retention system selected, active or at-rest coefficients should be used in the earth retention system design.

Table 4: Lateral Earth Pressure Parameters

PARAMETER	FILL	STRATUM 1	PROCESSED GRANULAR FILL*
Dry Unit Weight, pcf	120	100	135
Angle of Internal Friction, degrees	28	---	38
Cohesion, psf	---	250	---
Friction Factor (concrete)	0.35	---	0.52
k_a	0.36	1.00	0.24
k_o	0.53	1.00	0.38
k_p	2.77	1.00	4.20

**NJDOT I-5*

If the contractor is responsible for the design of temporary or permanent retaining structures, then the contract documents should clearly require that a competent registered engineer perform the design and that satisfactory earth support is solely the contractor's responsibility. Furthermore, the contract documents should require the contractor to notify the engineer immediately if differing or unforeseen subsurface conditions are encountered during construction.

5.7 Estimated Pavement Design Parameters

In the areas of proposed new pavements, such as drives, parking areas, etc., a flexible (bituminous) type pavement is recommended. The preparation of the pavement subgrades and placement of any required fill should be done as recommended under the "Earthwork" section of this report. In the design of pavements, a California Bearing Ratio (CBR) value of 10% can be used as representative of the densified granular on-site soils, or of compacted imported granular fill. We recommend that the pavement surface course (wearing and binder) be underlain by at least 4 in. thick crushed stone or coarse gravel base course, similar to NJDOT I-5.

5.8 Groundwater and Surface Water Management

The groundwater observations made in the borings indicate that free-standing is not anticipated to be encountered in shallow excavations; Wet conditions and/or seepage might be encountered; sumps and pumps should be adequate to maintain stable conditions during foundation construction.

Previous borings indicate that the groundwater elevation was between elevations Elev. -6.4 to Elev. 2.6. Recent water level observations indicate that static groundwater may be encountered at elevations between Elev. -9.5 to Elev. -16.5. This variation may be due to the recent construction activities and tidal changes. The use of high capacity pumps may be required to maintain stable conditions. Appropriate clauses required for ground water control should be included in any contract documents.

The foundation excavations should not be used as a detention basin or sump unless authorized by the Geotechnical Engineer. During construction surface runoff should be prevented from entering the foundation excavations by creating soil berms or diversion swales along the perimeter if the excavation is expected to be open for a long period of time. Where ponding does occur, the water should be pumped immediately, and grades should then be established to prevent further ponding.

5.9 Existing and Proposed Utilities

Any existing utilities located within the proposed construction areas should be abandoned and relocated outside the proposed building footprint. Any existing utility line abandoned in-place should be grouted or the line should be removed from the trench and appropriately backfilled.

5.10 Construction Difficulties

Experience has shown that the remnant construction and obstructions are often encountered when building within previously developed sites. Encountering remnants of previous foundations should be expected during site excavation and foundation installation. If remnant foundations are still present, they should be totally removed, or if the obstruction is massive, to a depth of at least 18 in. below the bottom of the new foundations and slab-on-grade. Existing structural elements encountered below new foundations should be evaluated individually. Vibration monitoring near adjacent structures is recommended, especially near existing buildings.

6.0 Recommendations for Further Geotechnical Services

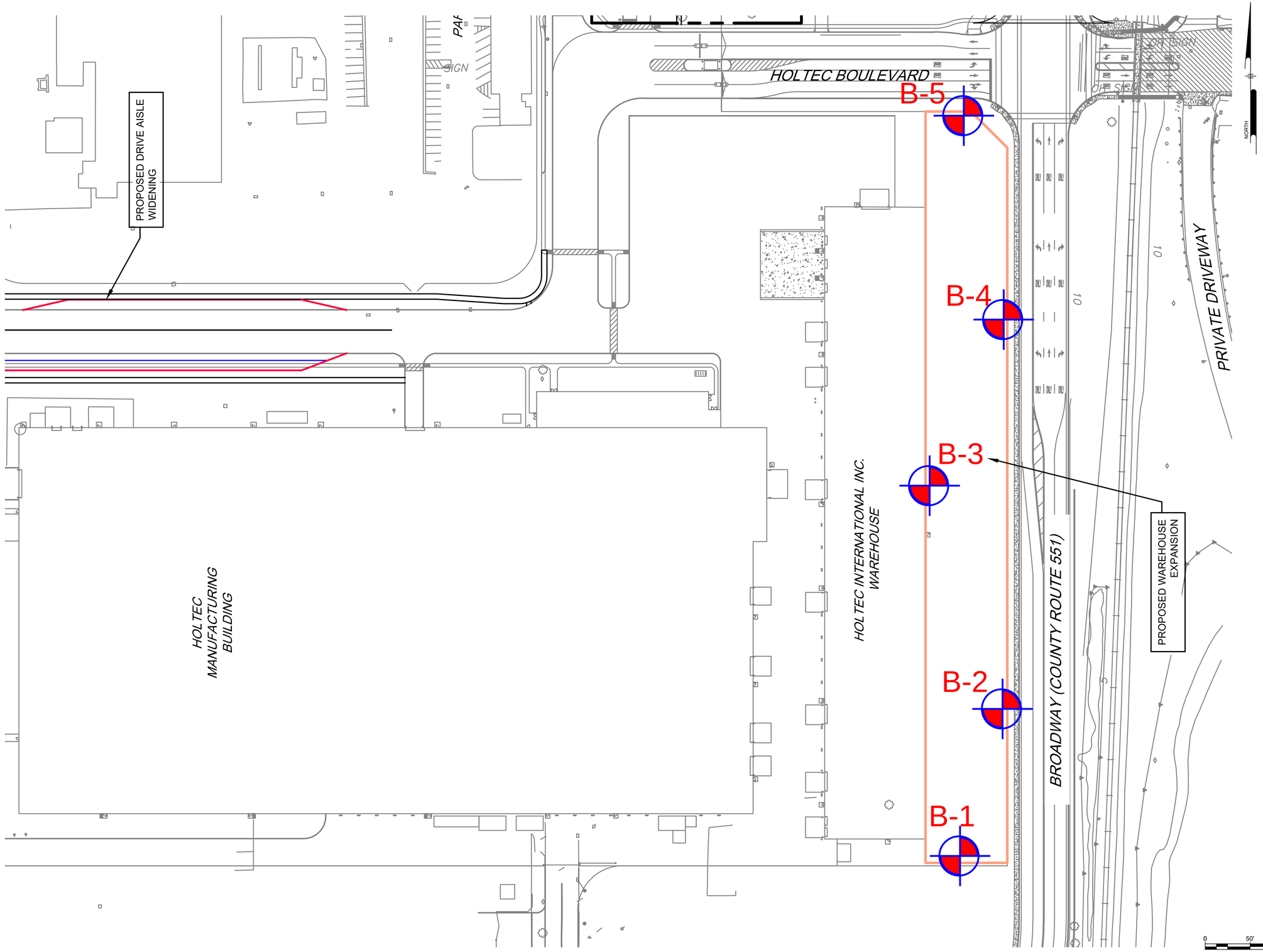
Our experience on numerous construction projects is that the interests of the project team are best served by retaining the Geotechnical Engineer to provide construction observations during earthwork and foundation construction operations. To determine if soils, other materials, and ground water conditions encountered during construction are similar to those encountered in the borings, and that they have comparable engineering properties or influences on the design of the structure, we recommend that Pennoni should provide field observation services during excavation; preparation of foundation subgrades; and installation/construction of foundations. Pennoni's Geotechnical Technology should review specifications for earthwork and foundation design/construction when they are prepared.

7.0 Limitations

This work has been done in accordance with our authorized scope of work and in accordance with generally accepted professional practice in the fields of geotechnical and foundation engineering. This warranty is in lieu of all other warranties either expressed or implied. Our conclusions and recommendations are based on the data revealed by this exploration. We are not responsible for any conclusions or opinions drawn from the data included herein, other than those specifically stated, nor are the recommendations presented in this report intended for

direct use as construction specifications. This report is intended for use with regard to the specific project described herein; any changes in loads, structures, or locations should be brought to our attention so that we may determine how they may affect our conclusions. An attempt has been made to provide for normal contingencies, but the possibility remains that unexpected conditions may be encountered during construction. If this should occur, or if additional or contradictory data are revealed in the future, we should be notified so that modifications to this report can be made, if necessary. If we do not review relevant construction documents and witness the relevant construction operations, then we cannot be responsible for any problems that may result from misinterpretation or misunderstanding of this report or failure to comply with our recommendations. our virtual executive summary should be used for informational purposes only and should not be used for construction related purposes.

Appendix A:
Field Data



NOT FOR CONSTRUCTION

PENNONI ASSOCIATES INC.
515 Grove Street, Suite 1B
Haddon Heights, NJ 08035
T 856.547.0505 F 856.547.9174
NJ COA NO. GA28033300

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

HOLTEC NEW WAREHOUSE

1 HOLTEC BOULEVARD
CAMDEN, NEW JERSEY

BORING LOCATION PLAN

USA ARCHITECTS
20 NORTH DOUGHTY AVENUE
SOMERVILLE, NEW JERSEY 08876

NO.	DATE	REVISIONS	BY

ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES, AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

PROJECT	USATX24001
DATE	2024-08-21
DRAWING SCALE	1"=50'
DRAWN BY	EGB
APPROVED BY	MA

TL-1

SHEET 1 OF 1

C:\USATX24001-BNDY TOPO.dwg PLOTTED: 8/21/2024 12:09 PM BY: Eli Brinker PLOTSTYLE: Pennoni NCS.ctb PROJECT STATUS: —

TEST BORING LOG

CLIENT USA Architects
PROJECT NAME Holtec Warehouse
PROJECT NUMBER USATX24001
PROJECT LOCATION Camden, New Jersey
DATE STARTED 7/22/24 **COMPLETED** 7/22/24
GROUND ELEVATION 11.5'
DRILLING CONTRACTOR CGC Geoservices, LLC
WATER ENCOUNTERED:
DRILLING METHOD Hollow Stem Auger
▽ **DURING DRILLING** 28.0' / Elev -16.5'
DRILLER / HELPER A. Martinez/E. Blemmings
AT END OF DRILLING -
LOGGED BY O. Sidwell **CHECKED BY** M. Arkan
AFTER DRILLING -

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (in.)	BLOW COUNTS	GRAPHIC LOG	STRATA	DESCRIPTION	REMARKS
0						Depth Elev.	
	1	6	13-16-13-11			FILL - Gray C/M/FSAND, some C/F angular Gravel, trace Silt	
	2	6	12-8-7-6				
5	3	2	11-10-13-24		F		
	4	18	16-20-17-18			FILL - Black/brown/gray C/M/F SAND, some C/F angular Gravel, trace Silt, trace C Asphalt Fragments	
	5	12	15-7-6-6				
10						10.0 1.5	
						Dark gray clayey SILT, trace F/M Sand	
15	6	4	2-1-1-1				
					1		
20	7	12	1-2-2-8			Dark gray clayey SILT, little F/M Sand	
25	8	12	5-2-3-6			25.0 -13.5	
						Dark gray clayey SILT, some C/M/F SAND	
▽ 30	9	24	3-2-3-4		2		
	10	24	7-5-21-32			34.0 -22.5	
35					3		

NOTES:

(Continued Next Page)

TEST BORING LOG

CLIENT USA Architects **PROJECT NAME** Holtec Warehouse

PROJECT NUMBER USATX24001 **PROJECT LOCATION** Camden, New Jersey

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (in.)	BLOW COUNTS	GRAPHIC LOG	STRATA	DESCRIPTION	REMARKS
35						Depth Elev.	
					3	Dark gray C/M/F SAND and C/F rounded GRAVEL, little to trace Silt *(continued)*	
40	11		12-12-14-15				
45	12	12	9-10-21-26			44.5 -33.0	
					4	Light gray M/C SAND, some F/M rounded Gravel, trace Silt	
50	13		15-22-40-39			50.0 -38.5	

Borehole terminated at 50.0 feet.

NOTES:

TEST BORING LOG

CLIENT USA Architects
PROJECT NAME Holtec Warehouse
PROJECT NUMBER USATX24001
PROJECT LOCATION Camden, New Jersey
DATE STARTED 7/22/24 **COMPLETED** 7/22/24
GROUND ELEVATION 11.0'
DRILLING CONTRACTOR CGC Geoservices, LLC
WATER ENCOUNTERED:
DRILLING METHOD Hollow Stem Auger
▽ **DURING DRILLING** 21.0' / Elev -10.0'
DRILLER / HELPER A. Martinez/E. Blemmings
AT END OF DRILLING -
LOGGED BY O. Sidwell **CHECKED BY** M. Arkan
AFTER DRILLING -

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (in.)	BLOW COUNTS	GRAPHIC LOG	STRATA	DESCRIPTION	REMARKS
0						Depth Elev.	
	1	12	9-6-6-7			FILL - Black/brown/gray C/M/F SAND, some C/F angular Gravel. trace Silt	
	2	12	5-5-4-3				Some organics around 3.5 ft
5	3	6	6-5-4-4		F		
	4	12	4-5-17-14				
10	5	0	12-14-13-12			10.0 1.0	Sample 5 - rock blocked spoon, no recovery
						Dark gray clayey SILT, trace F Sand	
15	6	20	2-2-2-2				
					1		
20	7	24	4-3-4-4				
▽							
25	8	20	8-50/3			25.0 -14.0	
						Dark gray clayey SILT and C/M/F SAND	
30	9	8	50/5		2		
35	10	20	14-12-26-31			34.0 -23.0	
					3		

NOTES:

(Continued Next Page)

TEST BORING LOG

CLIENT USA Architects **PROJECT NAME** Holtec Warehouse

PROJECT NUMBER USATX24001 **PROJECT LOCATION** Camden, New Jersey

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (in.)	BLOW COUNTS	GRAPHIC LOG	STRATA	DESCRIPTION	REMARKS
35						Depth Elev.	
					3	Dark gray C/M/F SAND and C/F rounded GRAVEL, little to trace Silt *(continued)*	
40	11	20	29-44-40-50/4				
45	12	24	25-23-13-14				
						44.5 -33.5	
					4	45.0 -34.0 Light gray M/C SAND, some F/C rounded Gravel, trace Silt	
						Borehole terminated at 45.0 feet.	

NOTES:

TEST BORING LOG

CLIENT USA Architects
PROJECT NAME Holtec Warehouse
PROJECT NUMBER USATX24001
PROJECT LOCATION Camden, New Jersey
DATE STARTED 7/22/24 **COMPLETED** 7/22/24
GROUND ELEVATION 11.5'
DRILLING CONTRACTOR CGC Geoservices, LLC
WATER ENCOUNTERED:
DRILLING METHOD Hollow Stem Auger
▽ **DURING DRILLING** 21.0' / Elev -9.5'
DRILLER / HELPER A. Martinez/E. Blemmings
AT END OF DRILLING -
LOGGED BY O. Sidwell **CHECKED BY** M. Arkan
AFTER DRILLING -

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (in.)	BLOW COUNTS	GRAPHIC LOG	STRATA	DESCRIPTION	REMARKS
0							
	1	12	22-14-20-19			FILL - Black/gray F/M/C SAND, some C angular Gravel	
	2	12	18-16-21-22				
5	3	8	9-10-40-53		F		Sample 3 had some organics
	4	18	27-20-15-12				
	5	2	11-12-13-16				
10						Depth 10.0 Elev. 1.5	
						Dark brown/light brown/black F/M/C SAND, little F angular Gravel, little to trace Silt	
15	6	20	12-21-34-50/5				
20	7	20	11-18-30-27			Light brown F/M/C SAND, trace Silt	
▽							GW ~21 ft
					3		
25	8	24	9-16-22-21				
30	9	20	4-8-10-6			Brown F/M/C SAND, some to little Silt, trace F/M rounded Gravel	Thin (~3 in) layer of f. rounded gravel
35	10	24	14-18-16-22				

NOTES:

(Continued Next Page)

TEST BORING LOG

CLIENT USA Architects **PROJECT NAME** Holtec Warehouse

PROJECT NUMBER USATX24001 **PROJECT LOCATION** Camden, New Jersey

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (in.)	BLOW COUNTS	GRAPHIC LOG	STRATA	DESCRIPTION	REMARKS
35						Depth Elev.	
						Dark brown/light brown/black F/M/C SAND, little F angular Gravel, little to trace Silt *(continued)*	
40	11	24	14-26-26-28		3	Dark gray F rounded GRAVEL, some F/M/C Sand, little to trace Silt	
						44.0 -32.5	
45	12	12	11-16-23-25		4	45.0 -33.5 Light gray F/M/C SAND, little Silt, some to little F Gravel	
						Borehole terminated at 45.0 feet.	

NOTES:

TEST BORING LOG

CLIENT USA Architects
PROJECT NAME Holtec Warehouse
PROJECT NUMBER USATX24001
PROJECT LOCATION Camden, New Jersey
DATE STARTED 7/23/24 **COMPLETED** 7/23/24
GROUND ELEVATION 11.0'
DRILLING CONTRACTOR CGC Geoservices, LLC
WATER ENCOUNTERED:
DRILLING METHOD Hollow Stem Auger
▽ **DURING DRILLING** 21.0' / Elev -10.0'
DRILLER / HELPER A. Martinez/E. Blemmings
AT END OF DRILLING -
LOGGED BY O. Sidwell **CHECKED BY** M. Arkan
AFTER DRILLING -

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (in.)	BLOW COUNTS	GRAPHIC LOG	STRATA	DESCRIPTION	REMARKS
0						Depth / Elev.	
	1	12	14-17-47-50/3		F	FILL - Black/gray C/M/F SAND, some C/M/F angular Gravel, trace to little Silt	
	2	14	32-16-13-15				
5	3	8	13-14-9-7			FILL - Light brown C/M/F SAND, little Silt	
	4	12	9-13-13-8			FILL - Brown F/M SAND, some Silt	Disturbed Sample
10	5	4	6-4-4-5			9.0 / 2.0	Sample 5: Oil/gas smell
					1	Dark dray clayey SILT, trace F Sand	
						13.0 / -2.0	
15	6	20	12-7-9-5			Dark gray clayey SILT and C/M/F SAND	
20	7	24	4-4-2-5			Dark gray M/F SAND, some Silt, trace F Gravel	Samples 6 & 7 were damp
▽					2		
25	8	24	15-50/5				Samples 8 on were wet S-8 extremely difficult to remove from spoon
30	9	12	24-50/5			29.0 / -18.0	
					3	Light gray-brown M/F rounded GRAVEL, some C/M/F Sand, trace Silt	
35	10	24	19-27-47-44				

NOTES:

(Continued Next Page)

TEST BORING LOG

CLIENT USA Architects **PROJECT NAME** Holtec Warehouse

PROJECT NUMBER USATX24001 **PROJECT LOCATION** Camden, New Jersey

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (in.)	BLOW COUNTS	GRAPHIC LOG	STRATA	DESCRIPTION	REMARKS
35						Depth Elev.	
						Light gray-brown M/F rounded GRAVEL, some C/M/F Sand, trace Silt *(continued)*	
40	11	24	30-19-15-37		3		
45	12	24	50/5			45.0 -34.0	
						Borehole terminated at 45.0 feet.	

NOTES:

TEST BORING LOG

CLIENT USA Architects
PROJECT NAME Holtec Warehouse
PROJECT NUMBER USATX24001
PROJECT LOCATION Camden, New Jersey
DATE STARTED 7/23/24 **COMPLETED** 7/23/24
GROUND ELEVATION 10.5'
DRILLING CONTRACTOR CGC Geoservices, LLC
WATER ENCOUNTERED:
DRILLING METHOD Hollow Stem Auger
▽ **DURING DRILLING** 21.0' / Elev -10.5'
DRILLER / HELPER A. Martinez/E. Blemmings
AT END OF DRILLING -
LOGGED BY O. Sidwell **CHECKED BY** M. Arkan
AFTER DRILLING -

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (in.)	BLOW COUNTS	GRAPHIC LOG	STRATA	DESCRIPTION	REMARKS
0							
	1	4	21-22-20-20		F	FILL - Dark brown C/M/F SAND, some C/M/F angular Gravel, trace Silt	
	2	20	20-11-7-6			FILL- Light brown C/M/F SAND, little to trace Silt	Disturbed Sample
						Depth 4.0 / Elev. 6.5	
5	3	0	3-4-3-3		1	Light brown/gray clayey SILT, some to little F Sand	No recovery on sample 3
	4	24	5-5-7-6				
10	5	24	3-3-3-6				Sample 5 Plug
15	6	24	3-3-5-5				Sample 6 color changes from light brown to dark gray Sample 6 contains some organics
20	7	24	6-7-7-16			Depth 19.5 / Elev. -9.0	
▽					3	Brown to gray C/M/F SAND, some C/M/F rounded Gravel, little Silt	
25	8	24	26-50/5			Light brown C/M/F SAND, trace Silt	
30	9	14	27-40-50/3			Depth 29.0 / Elev. -18.5	
					4	Light brown to light gray C/M/F SAND, some C/F rounded Gravel, trace Silt	
35	10	14	13-16-47-50/5				

NOTES:

(Continued Next Page)

TEST BORING LOG

CLIENT USA Architects **PROJECT NAME** Holtec Warehouse

PROJECT NUMBER USATX24001 **PROJECT LOCATION** Camden, New Jersey

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (in.)	BLOW COUNTS	GRAPHIC LOG	STRATA	DESCRIPTION	REMARKS
35						Depth Elev.	
					4	Light brown to light gray C/M/F SAND, some C/F rounded Gravel, trace Silt *(continued)*	
40	11	24	15-31-50/3			40.0 -29.5	
						Borehole terminated at 40.0 feet.	

NOTES:

Test Boring – Test Pit – Auger Probe Log Key Sheet

LEGNED

COLUMN	*DESCRIPTION*
Depth	Depth in feet below ground surface.
Description	Description of sample including color, texture, and classification of subsurface material as applicable. Estimated depths to bottom of Strata as interpolated from the boring are also shown.
Stratum	Strata numbers as assigned by the geotechnical engineer.
Sample No.	Split barrel sample and sample number (S-x) Undisturbed Tube sample and sample number (U-x) Rock core run and core number (R-x) NR indicates "No Recovery."
Blow Counts	Soils (ASTM D 1586): Indicates number of blows obtained for each 6 inches of penetration of the standard split-barrel sampler. Rock (ASTM D 2113): indicates percent recovery (REC) per length of run and rock quality designation (RQD). RQD is the sum of rock pieces that are 4 inches or longer in length in one run divided by the total core run.
Recovery	For soil samples indicates the length of recovery in the sample spoon.
Remarks	Special conditions or test data noted during drilling.
Ground Water	Free water level as shown ( )*; *Free water level as noted may not be indicative of daily, seasonal, or long term fluctuations.

DESCRIPTIVE TERMS

RELATIVE PROPORTIONS

Descriptive Term	Symbol	Estimated Percentages
Trace	tr	1 to 10
Little	l	10 to 20
Some	sm	20 to 35
And	and	35 to 50

GRADATION OF COARSE GRAINED COMPONENTS

Soil Component	Size Range	Particle Size Maximum	Particle Size Minimum
Boulders		-	12"
Cobbles		12"	3"
Gravel	Coarse	3"	¾"
	Fine	¾"	#4 Sieve
Sand	Coarse	#4 Sieve	#10 Sieve
	Medium	#10 Sieve	#40 Sieve
	Fine	#40 Sieve	#200 Sieve
Silt		#200 Sieve	.005 mm
Clay		.005 mm	-

COMPOSITION OF COARSE-GRAINED COMPONENTS

Gradation Designation	Symbol	Defining Proportions
Coarse to Fine	CF	All fractions greater than 10% of the component
Coarse to Medium	CM	Less than 10% Fine
Medium to Fine	MF	Less than 10% Coarse
Coarse	C	Less than 10% Fine and Medium
Medium	M	Less than 10% Coarse and Fine
Fine	F	Less than 10% Coarse and Medium

Appendix B:
Laboratory Data

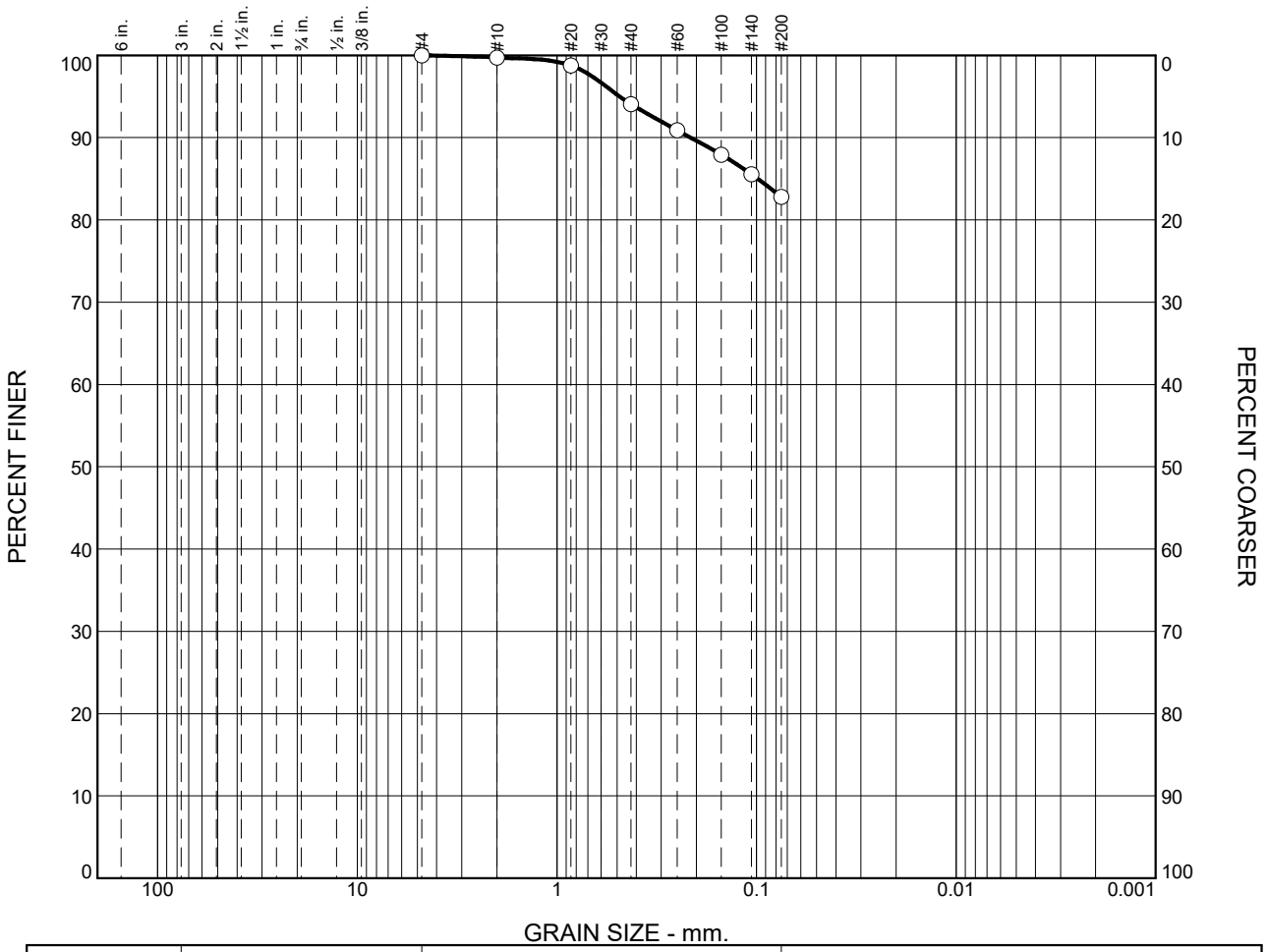
SUMMARY OF LABORATORY DATA

BORING NUMBER	SAMPLE NUMBER	DEPTH (ft)	SOIL GROUP SYMBOL	GRAIN SIZE DISTRIBUTION				PLASTICITY				MOISTURE CONTENT w %	VOLUMETRIC				COMPACTION DATA			Organic Content (%)		SHEAR STRENGTH		
				GRAVEL %	SAND %	SILT %	CLAY %	LIQUID LIMIT w_l	PLASTIC LIMIT wp	PLASTICITY INDEX I_P	LIQUIDITY INDEX I_L		SPECIFIC GRAVITY (G)	DRY UNIT WEIGHT (pcf)	VOID RATIO (e)	DEGREE OF SATURATION %	MAXIMUM DRY DENSITY (pcf)	OPTIMUM MOISTURE CONTENT %	STANDARD/MODIFIED			UNCONFINED COMPRESSIVE STRENGTH (psi)	COHESION (tsf)	AXIAL STRAIN (%)
B-1	S-7	19-21		0	17	83						56.4												
B-2	S-6	13-15						40	21	19	-0.1	19.3	2.72	98.2	0.73	62						15.80		
B-4	S-4	6-8		0	73	27						11.6												
	S-7	18-20		2	71	27						20.7												

PENNONI ASSOCIATES INC.	DRAWN BY: JTR CHECKED BY: EB	DATE: 8/19/2024 DATE: 8/21/2024
PROJECT: **Holtec New Warehouse** LOCATION: **Camden, NJ**		

These results are for the exclusive use of the client for whom they were obtained. They apply only to the samples tested and are not indicitive of apparently identical s

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	0	0	6	11	83	

SOIL DATA

	SOURCE	SAMPLE NO.	DEPTH (ft.)	Material Description	USCS
○	B-1	S-7	19-21'	Silt/Clay, Little F/M Sand	

PENNONI ASSOCIATES INC.

Client: USA Architects

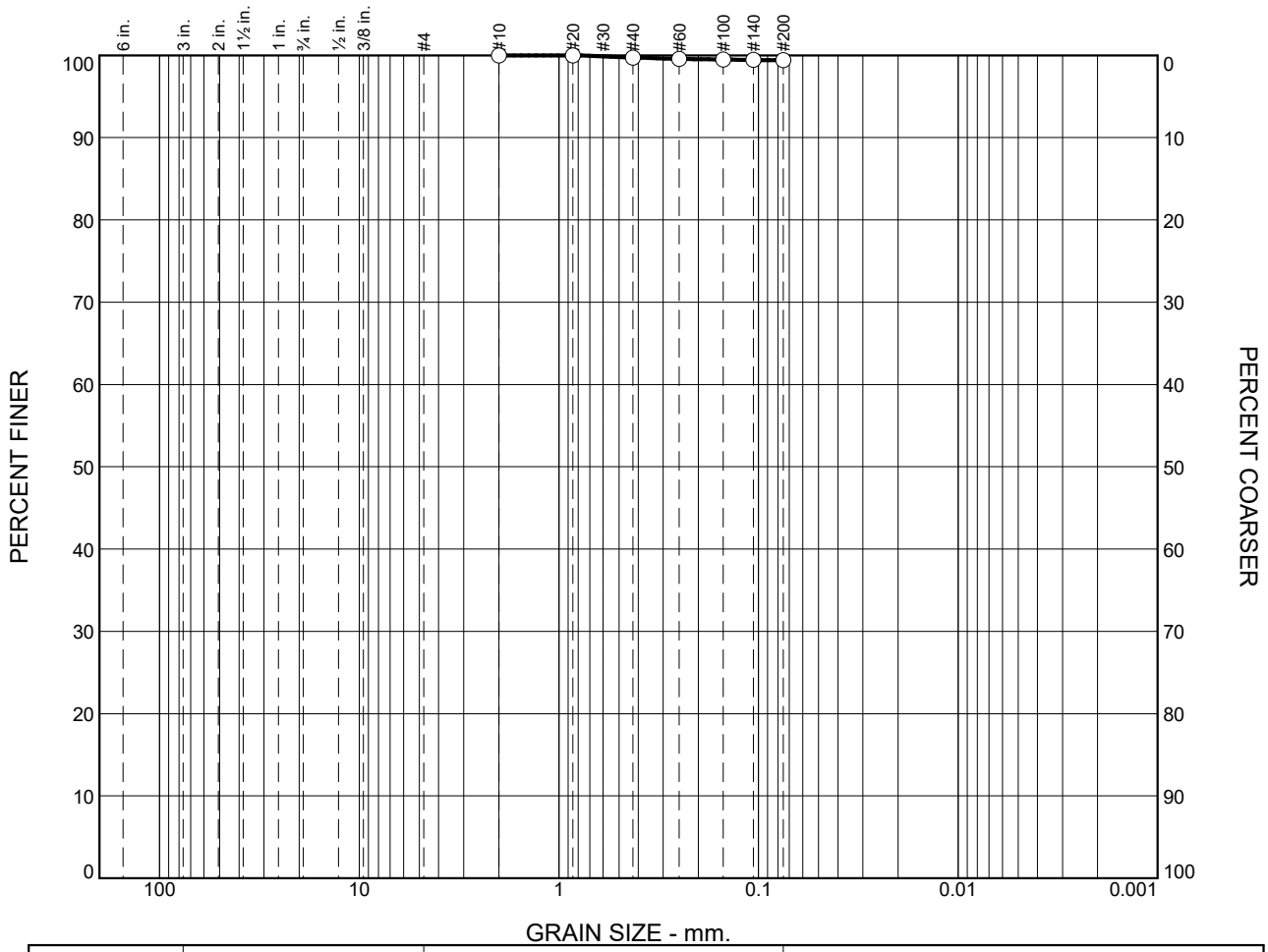
Project: Holtec New Warehouse

Project No.: USATX-24001.02 **Figure** S-1

Tested By: BC **Checked By:** JTR

These results are for the exclusive use of the client for whom they were obtained. They apply only to the samples tested and are not indicitive of apparently identical s

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	0	0	0	1	99	

SOIL DATA

	SOURCE	SAMPLE NO.	DEPTH (ft.)	Material Description	USCS
○	B-2	S-6	13-15'	Silt/Clay, Trace Fine Grout	CL

PENNONI ASSOCIATES INC.

Client: USA Architects

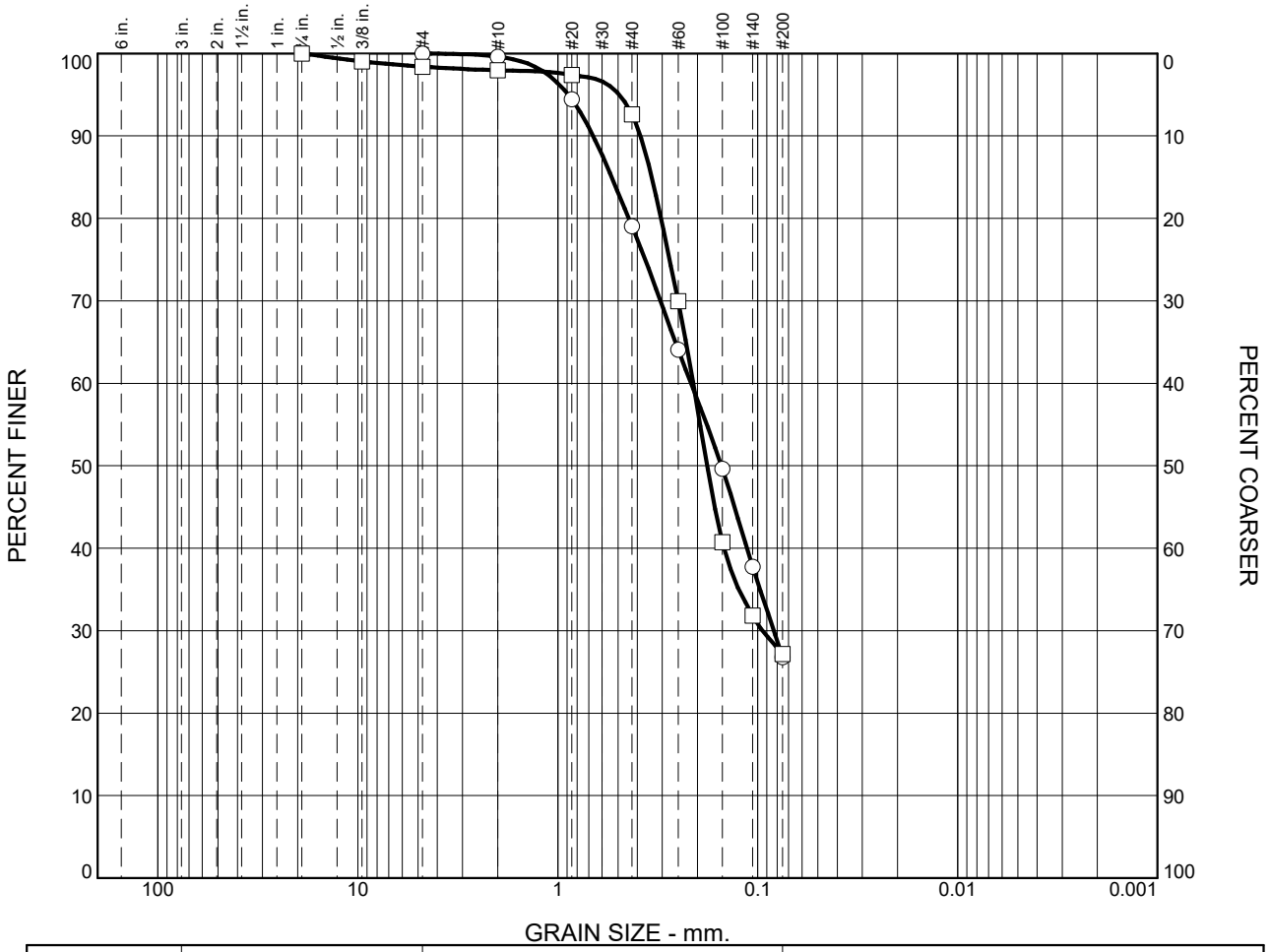
Project: Holtec New Warehouse

Project No.: USATX-24001.02 **Figure** S-2

Tested By: BC **Checked By:** JTR

These results are for the exclusive use of the client for whom they were obtained. They apply only to the samples tested and are not indicitive of apparently identical s

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	0	0	21	52	27	
□	0	0	2	0	5	66	27	

SOIL DATA

	SOURCE	SAMPLE NO.	DEPTH (ft.)	Material Description	USCS
○	B-4	S-4	6-8'	F/M Sand, Some Silt/Clay	
□	B-4	S-7	18-20'	M/F Sand, Some Silt/Clay, Trace Fine Gravel	

PENNONI ASSOCIATES INC.

Client: USA Architects

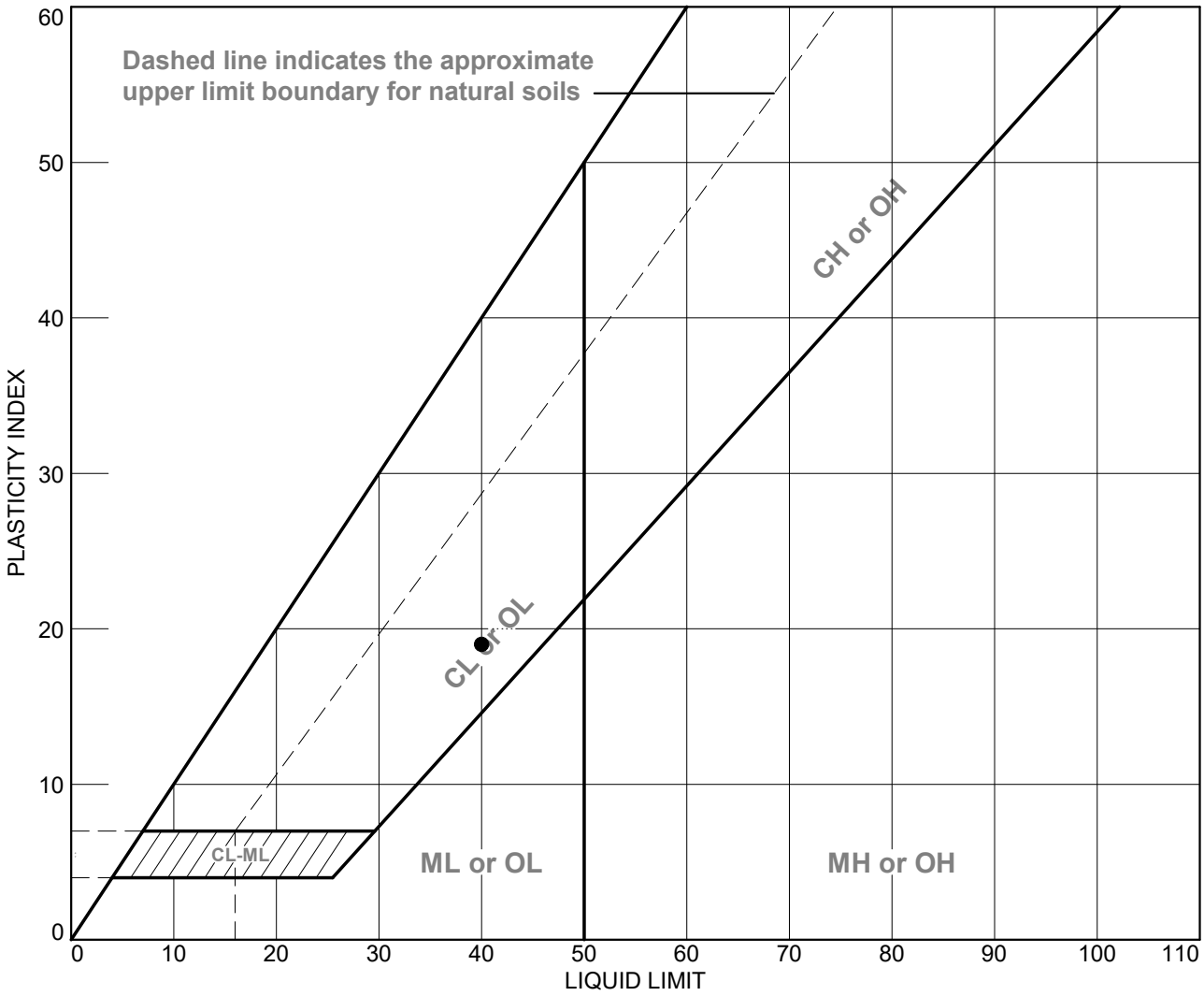
Project: Holtec New Warehouse

Project No.: USATX-24001.02 **Figure** S-3

Tested By: BC **Checked By:** JTR

These results are for the exclusive use of the client for whom they were obtained. They apply only to the samples tested and are not indicitive of apparently identical s

LIQUID AND PLASTIC LIMITS TEST REPORT



SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	B-2	S-6	13-15'	19.3	21	40	19	CL

PENNONI ASSOCIATES INC.

Client: USA Architects
Project: Holtec New Warehouse
Project No.: USATX-24001.02 **Figure** A-1

Tested By: MB **Checked By:** JTR

LABORATORY TESTING PROCEDURES

All testing is either done in accordance with the indicated ASTM Designation-latest edition, or with other standard or generally accepted engineering practice as described:

1. **Consolidation Test of Soils**
   Preparation of samples and testing procedures generally follow the methods described in Lambe, op. Cit. In addition, the time of loading may be selected on the basis of:
   a. Controlled rate of percent of consolidation
   b. Controlled pore pressure gradient
   c. Controlled strain

   The method of test is selected to suit the soil type in question and the test is conducted in accordance with generally accepted engineering practice.

2. **Atterberg Limits – Plasticity Indices**
   a. Liquid limit of soils, ASTM D 4318
   b. Plastic limit and plasticity index of soils, ASTM D 4318
   c. Shrinkage factors of soils, ASTM D 427

   (Moisture content is also determined with the Atterberg Limit test, and liquidity index is also computed)

3. **Moisture Content of Soil**
   ASTM D 2216

4. **Particle Size Analysis of Soils**
   ASTM D 421, Dry preparation of soil samples; ASTM D 422, Sieve and/or hydrometer analysis.

5. **Triaxial Compression Test of Soils**
   Sample preparation, apparatus, and testing generally follow the procedures outlined in Soil Testing for Engineers, T.W. Lambe, John Wiley & Sons, Inc., New York, 1951 and in The Measurement of Soil Properties in the Triaxial Test, Alan W. Bishop & D.J. Henkel, 2nd Edition, St. Martin's Press, New York, 1962

6. **Unconfined Compression Strength of Cohesive Soil**
   ASTM D 2166

7. **Specific Gravity of Soils**
   ASTM D 854

8. **Unit Weight Determination of Soils**
   See ASTM D 2166 for preparation of specimen except that sample size may differ. For moisture content see ASTM D 2216.

9. **Visual Identification of Soil Samples**
   All soil samples are visually identified and/or classified. The classification system used is shown in Table L-1.

10. **Identification of Rock**
    Rock core samples are identified by the character and appearance of newly fractured surfaces of unweathered pieces, by core conditions and characteristics, and by the determination of simple physical and chemical properties.

11. **Unconfined Compression Strength of Intact Rock Core Specimens**
    ASTM D 2938.

12. **Compaction Test of Soils**
    a. Moisture-density relations of soils using 5.5 lb. hammer and 12 in. drop, ASTM D 698
    b. Moisture-density relations of soils using 10 lb. hammer and 18 in. drop, ASTM D 1557

13. **Maximum and Minimum Densities of Granular Soils**
    Testing procedures follow D.M. Burmeister, "Suggested Method of Test for Maximum and Minimum Densities of Granular Soils" cited in Proceedings for Testing Soils, Fourth Edition, ASTM, Philadelphia. 1964, pp 175-177.

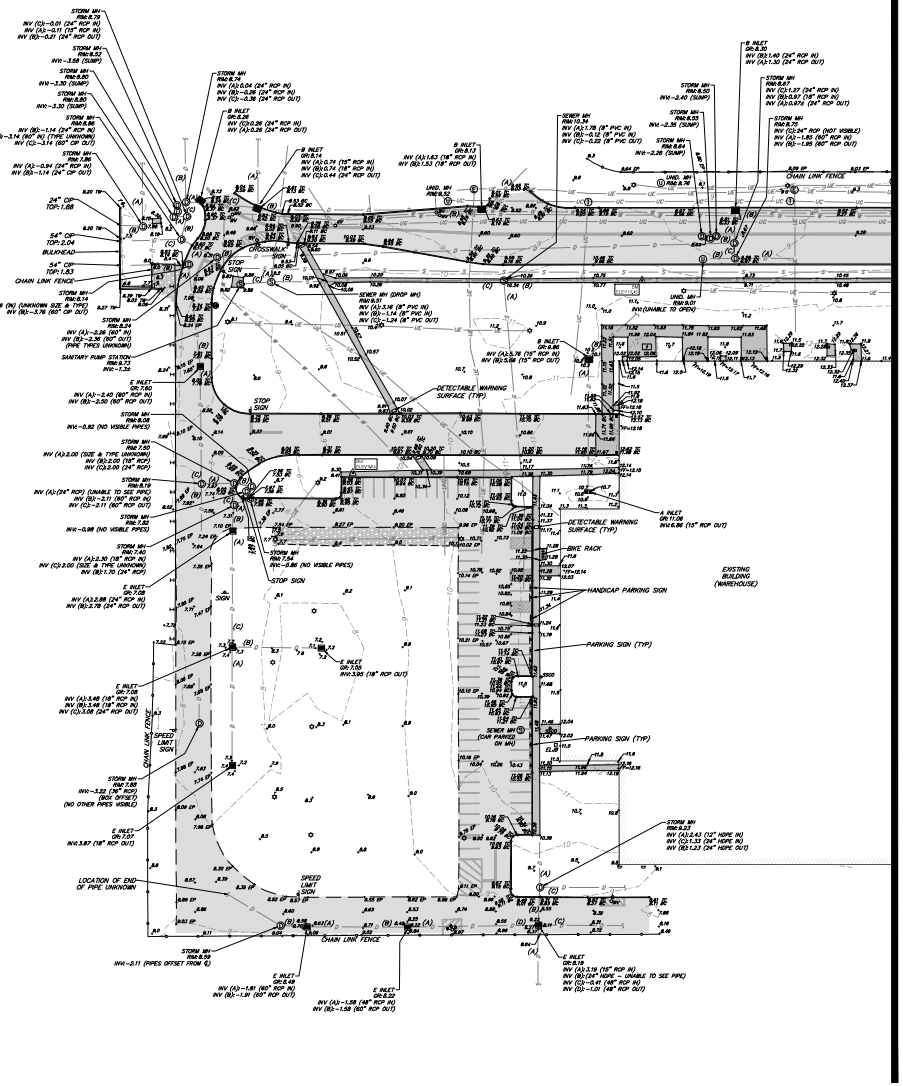
14. **Bearing Ratio of Laboratory Compacted Soils**
    ASTM D 1883 (Sometimes called California Bearing Ratio or CBR)

15. **Organic Content**
    A modified dichromate oxidation method using ferrous ammonium sulfate is employed in determining the percent of organic matter in soil.

Appendix C:
Standard Symbols

Standard Symbols

B	Width of footing
c	cohesion
c_v	coefficient of consolidation
C_c	compression index
C	coefficient of secondary compression
C_3	swelling index
C_u	uniformity coefficient (D_{60}/D_{10})
CBR	California Bearing Ratio
D	Pile Diameter
D_f	depth of foundation
D_p	diameter of grain corresponding to percentage p on grain size curve
D_{10}	effective grain size
E	modulus of linear deformation
E_s	Young's Modulus
e	void ratio
F_s	factor of safety
G	specific gravity
h	hydraulic head
H	stratum thickness
i	hydraulic gradient
I_L	liquidity index
I_P	plasticity index
k	coefficient of permeability
k_h	coefficient of horizontal subgrade reaction
k_v	coefficient of vertical subgrade reaction
L	length of footing
n	porosity
P	deviator stress
P_c	estimated probable preconsolidation pressure
P_o	existing overburden pressure
q_a	allowable soil bearing pressure
Q	triaxial compression test unconsolidated and undrained
Q_c	triaxial compression test consolidated and undrained
S	triaxial compression test consolidated and drained
S_r	degree of saturation
υ	pore-water pressure
U	degree of consolidation
U_c	unconfined compression test
w_f	moisture content at end of test
w_l	liquid limit
w_n	natural moisture content
w_p	plastic limit
γ	unit weight
γ_d	dry unit weight
γ_b	submerged unit weight
ε	unit linear strain
ε_f	unit linear strain at failure
σ	normal stress
σ_1	major principal stress
σ_3	minor principal stress
τ	shear stress
ϕ	angle of internal friction
k_a	coefficient of active pressure
k_p	coefficient of passive pressure
δ	friction angle
tan δ	friction factor


SEE SHEET V0402
STORM MH
STORM MH
STORM MH

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SEE SHEET V0401



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DATE	NO.	REVISIONS	BY

HOLTEC TECHNOLOGY CENTER BUILDING EXPANSION & DRIVEWAY WIDENING

2500 SOUTH BROADWAY

CITY OF CAMDEN, CAMDEN COUNTY, NEW JERSEY

TOPOGRAPHIC SURVEY

HOLTEC TECHNOLOGY CENTER, LLC

1 HOLTEC BOULEVARD

CAMDEN, NEW JERSEY 08104

THIS PLAN WAS PREPARED UNDER MY IMMEDIATE SUPERVISION

4/20/2026

Keith M. Ludwig, PLS

New Jersey LIC. 24GS04324400

PENNONI ASSOCIATES INC.

515 Grove Street, Suite 1B

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T 856.547.0505 F 856.547.9174

NJ COA NO. GA28033300

PROJECT: USATX24001

DATE: 7/21/24

DRAWING SCALE: 1"=50'

DRAWN BY: CSC

APPROVED BY: KML

SHEET 2 OF 2

V0402

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TECHNICAL REPORT

ENVIRONMENTAL IMPACT STATEMENT

HOLTEC TECHNOLOGY CENTER
BUILDING EXPANSION AND DRIVEWAY WIDENING
BLOCK 455, LOT 1
BLOCK 457, LOT 16
CITY OF CAMDEN
CAMDEN COUNTY, NEW JERSEY



Prepared For:

Holtec Technology Center, LLC
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Proj. No. USATX24001

April 22, 2026

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APPENDIX A – SITE PLAN

EXECUTIVE SUMMARY

On behalf of **Holtec Technology Center, LLC (HTC) ("Applicant"), Pennoni** has performed an Environmental Impact Statement (EIS) of a parcel identified as Block 455, Lot 1, and Block 457 Lot 16, located in Camden, New Jersey, hereafter referenced as the "subject property" and/or "site." Refer to Figure 1 for copy of the City of Camden Tax Map. The site is located within the Holtec Technology Campus in Camden, NJ; bounded by Broadway (CR 551) to the east, Holtec Boulevard to the north, Pier 5 Broadway Marine Terminal to the south, and the Delaware River (tidal waterway) to the west. See Figure 2 For Site Location Map.

The Applicant has previously developed the subject property in 2016 under the "Holtec Technology Center" project. The development included a warehouse building, a manufacturing building, two (2) office buildings, and included planned future improvements on the site. The property is currently composed of approximately 7.7 acres of developed land. Existing conditions comprise of a warehouse building, manufacturing building, surface parking lot and roads / access drives.

Under proposed project, the Client has elected to move forward with the construction of the remaining Future Phase items and new roadway widening. The improvements consist of an approximate 71,680 square foot building expansion to the existing warehouse, for manufacturing. In addition, the existing paved parking lot to the west of the existing manufacturing building will be expanded for added parking and laydown area, along with widening of the existing internal Holtec Boulevard to accommodate short-term trailer storage and two-way traffic. Associated site improvements include sidewalk, drainage, green-infrastructure facility for stormwater management, and utilities.

The proposed improvements are anticipated to have minimal negative impact on environmental resources with notable positive impact. The project is designed for compatibility with surrounding uses and minimizes impacts to natural features that exist onsite. Construction of the new building addition, road widening, and surface parking lot expansion is anticipated to result in minimal short-term and long-term adverse environmental impacts relative to the existing conditions and the surrounding land uses. Impacts will be mitigated through proper engineering, planning and design, proper construction management techniques, as well as implementation of the various mitigation measures and BMP's discussed within this assessment. The project will be designed to comply with Local, County, and State development standards and planning objectives and will not pose significant impacts to the natural environment or local community.

Pennoni conducted a geotechnical investigation to document soil conditions at the site. A report was prepared with geotechnical findings and recommendations dated September 9, 2024, revised March 16, 2026.

An Amended Traffic Impact Study was completed by Pennoni, dated April 9, 2026. The results from the traffic study found the proposed development will not result in a significant increase in

traffic on the adjacent roadway network and will not result in an appreciable impact on the operation or traffic flow at the signalized and unsignalized intersections within the study area.

Supporting documentation will be prepared as required in N.J.A.C. 7:7 et seq., as well as the Zoning and Land Use Ordinance of the City of Camden.

The following assessment will include information and analysis pertaining to the project location, project use, environmental inventory, and identify recognized environmental impacts in connection with the redevelopment of the subject property per the City of Camden and New Jersey Department of Environmental Protection (NJDEP) requirements.

1.0 INTRODUCTION

The purpose of this assessment is to evaluate the environmental conditions of the project site, describe the proposed project, and provide an analysis of the potential direct and indirect environmental impacts of the proposed improvements. The assessment will include information and analysis pertaining to the project location, project use, environmental inventory, and identify recognized environmental impacts in connection with the redevelopment of the subject property per the City of Camden and New Jersey Department of Environmental Protection (NJDEP) requirements. Specifically, information and analysis pertaining to the project location, project use, environmental inventory, and a discussion of potential impacts as well as measures proposed to mitigate potential impacts are included. Relevant exhibits and documentation are provided within the Figures and Appendices. Project elements evaluated in this assessment are depicted on the "Site Plan," prepared by Pennoni.

2.0 SUBJECT PROPERTY DESCRIPTION

The property is owned by South Jersey Port Corporation (SJPC) and leased to Holtec Technology Center (HTC). The site is in the PR1 Port Related Industrial Zoning District per the City of Camden Zoning Map. See Figure 3.

2.1 Property Location and Legal Description

The subject property is located at 1 Holtec Boulevard, City of Camden, Camden County, New Jersey. The site is bounded by South Broadway (CR 551) to the east, Holtec Boulevard to the north, Pier 5 Broadway Marine Terminal to the south, and the Delaware River (tidal waterway) to the west.

The parcel is identified as Block 455, Lot 1, and Block 457 Lot 16 on the City of Camden Tax Map, Plate 8.12. A copy of the City Tax Map is provided under Figure 1.

The property can be found on the United States Geological Survey (USGS) 7.5- minute topographic quadrangle for Camden, New Jersey. See Figure 4.

2.2 Subject Property Characteristics

2.2.1 Current Use of the Subject Property

The subject property is approximately 7.7-acres and contains existing buildings, surface parking area and roads / drive aisles. The use of the site is manufacturing and warehouse. The site location area is within planned future development under the 2016 Holtec Technology Center project. There are no changes to the use of the site under proposed development.

2.2.2 Site Structures

An existing warehouse, manufacturing facility, and associated asphalt parking lot are located on the subject property. All buildings are to remain onsite.

2.2.3 Site Utilities

Local utilities within the area of the site include Public Service Electric and Gas (PSE&G) for electric and natural gas, a Transco underground distribution line, American Water for water, Camden County MUA for sewer, Camden City Public Works for storm drainage and sewer, and Comcast and Verizon for communications. These utilities are located on-site, within existing buildings, and in Holtec Boulevard.

2.3 Current Uses of Adjoining Properties and Properties in the Surrounding Area

Adjoining properties and properties and roads in the area surrounding the subject property are identified below.

- North – The subject property is bordered to the north by Holtec Boulevard. Holtec electric substation, parking lot and newly constructed Office Building are located further north. Zoning District; PRI-Port Related Industrial.

- South – The subject property is bordered to the south by Broadway Marine Terminal – Pier 5 owned and operated by SJPC and leased by Camden Waterfront Development, LLC. Zoning District; PRI-Port Related Industrial.

- East – The subject property is bordered to the east by South Broadway (CR 551, beyond which lies Route 676 further east. Zoning District; PRI-Port Related Industrial and Residential R2 beyond.

- West – The subject property is bordered to the west by the Delaware River, a tidal waterway. Zoning District; Not applicable.

3.0 PROJECT DESCRIPTION

3.1 Existing Conditions

The existing site contains four (4) buildings, paved internal drives and asphalt parking lots. The area of the proposed building addition is covered with dense graded aggregate to the limits of the planned future expansion shown under the "Holtec Technology Center" project. At the location of the proposed parking lot expansion, the existing ground is covered by lawn.

The surface of the site is mostly impervious with land use cover consisting of buildings and bituminous paving, and a combination of lawn and landscaping.

According to the USDA Soil Resource Report, a majority project site soils consist of urban land with remaining soils classified as sandy load. The site contains gentle sloping topography with slopes ranging between 0 to 5 percent.

3.2 Proposed Conditions

The proposed project is being developed by Holtec Technology Center, LLC (HTC) ("Applicant"), consisting of the construction of a building expansion to the warehouse facility, parking lot addition and road widening including stormwater collection and management. The manufacturing addition is approximately 71,680 square feet. Site access is achieved via an existing driveway from Holtec Boulevard. The proposed project is the final phase of a previously constructed series of warehouse, manufacturing, and office facilities built in 2016 on the adjacent sites within the Holtec Campus. See Appendix A for a copy of the Site Plan CS1001.

This project will create a more expansive facility to support the planned growth of HTC. The proposed project will provide potential job opportunities for residents as well as create a positive use for the subject property.

3.3 Alteration of the Site

Construction of the proposed development will require topsoil striping, excavation, and grading activities necessary to install the building foundation / pad, paved areas and sidewalks. No buildings will be demolished, no site lighting removed, and no tree or vegetation removal will be required to construct new improvements. Large-scale excavations for installation of new utilities and building foundations is anticipated. The design has been performed to minimize soil import and export.

As a result of the proposed development, the site impervious coverage will produce a net increase from existing conditions. This will increase the peak volume stormwater runoff leaving the site. However, the site is in a tidal flood hazard area and subject to flooding from the Delaware River. The stormwater runoff collected from the project site outfalls directly to the tidal waterway. No analysis is required if the stormwater is discharged directly into the watercourse. Thus, the increase in stormwater runoff

volume will not impact the surrounding drainage system.

3.4 Suitability of the Site

The subject property is particularly suitable for the proposed development as it was previously approved as future expansion to the Holtec Technology Center that was constructed in 2016. Utilization of a previously disturbed site within an urban area allows for the protection and preservation of undeveloped, wooded, or agricultural lands elsewhere in the City, County, and Region. Site access is achieved through Holtec Boulevard.

In compliance with the City of Camden Master Plan (2002) and local zoning, the proposed project is consistent with surrounding land uses and will not result in undesirable land use patterns.

The site is located within Planning Area 1 (PA-1) - Metropolitan, based on the State Plan Policy Map, which is slated as an Urban Center and growth area. See Figure 5. The State Plan's focus for the metropolitan planning area is to provide for much of the state's future development and promote growth in centers and other compact forms. Goals for the metropolitan planning area are to provide public facilities, consumer services, and community activities for surrounding residential uses, while preventing sprawl into lesser developed areas.

Overall goals of the State Plan include the protection of natural and historic resources, promotion of economic growth and to make reasonable housing costs available. The State Plan encourages development, redevelopment and economic growth in locations that are well situated with respect to present or anticipated public services or facilities and discourages development that would impact or destroy natural features or resources. In addition, the plan focuses to reduce sprawl, promote development and redevelopment in a manner consistent with sound planning. As detailed above, the proposed site improvements are particularly consistent with these goals. The proposed project is consistent with these goals.

The project site is in an industrial area surrounded by similar uses and highways. The proposed improvements are a planned development phase to the existing industrial, warehouse, and office uses. The existing infrastructure in place will cause minimal effect to the surrounding facilities.

3.5 Public Benefit

The new development will produce a minimal increase in population growth. No people, farms, or business will be displaced by the proposed improvements. There are no projected negative impacts to municipal services such as schools, police and fire. The municipality and the existing infrastructure have the capacity to service the new construction.

The proposed project will provide short-term construction and long-term employment opportunities for residents as well as development of open property in a predominantly industrial area. The proposed use will provide business opportunities within the City of Camden, while removing negative activities common on underutilized urban properties.

4.0 PHYSICAL SETTING & INVENTORY

Following is an inventory of the present land use and environmental conditions at the site including features such as topography, geology, soils, water resources, vegetation, wildlife, threatened and endangered species, air quality, noise levels and historical, scenic and historical features. This inventory will establish a baseline to which the proposed project can be analyzed and compared to ascertain potential environmental impacts.

4.1 Topography/Regional Drainage

The subject property is located on the Camden, New Jersey-Pennsylvania 7.5-minute USGS topographic quadrangle. The site elevation ranges from approximately 7.0 feet above mean sea level at the westerly edge of the project site to approximately 12.5 feet surrounding the warehouse / manufacturing building.

The property is within the 14-digit hydrologic unit code (HUC-14) delineation, Lower Delaware watershed management area.

4.2 Soils

A review of soil information provided in the USDA Web Soil Survey Map Database Report indicates a majority of the soil on the subject property consists of urban land. See Figure 6. Urban land is land mostly covered by streets, parking lots, buildings, and other structures of urban areas. Urban Land consists of cut and fill areas, most of which have been developed for residential, commercial, or industrial use or for multilane highways.

A small area of land within the building expansion footprint is comprised of sandy loam. The material is characterized as loamy human-transported material over dredged sandy material.

According to the New Jersey Department of Environmental Protection (NJDEP) GeoWeb Mapping Online Application, the site is an active contaminated site (ID: 018241; Broadway Terminal) and contains Historic Fill. See Figure 7.

Through qualitative earthwork volume calculations, the proposed development is found to be in a “cut” condition, resulting in excess soil. A portion of excavated excess soil will be reused onsite and capped using proper environmental controls. Any remaining soil will be hauled off-site to an approved facility and disposed of in accordance with Federal, State, and Local regulations.

4.3 Underlying Formation

Based on the New Jersey Geological Survey's (NJGS) Physiographic Provinces of New Jersey, the subject property lies within the Coastal Plain Province. The Coastal Plain consists of unconsolidated sediments, which range in age from Cretaceous to Holocene, dip toward the ocean and thicken southeasterly to approximately 4,500 feet near Atlantic City. The sediment consists of layers of sand, clay, green sand marl and gravel deposited alternately in floodplains and marine environments as sea level fluctuated during Cretaceous and Tertiary times.

4.4 Groundwater

Groundwater is expected to flow to the west towards the Delaware River. Although no study was completed by Pennoni, it is reasonable to believe the shallow aquifer is tidally influenced by the Delaware River. During testing done under geotechnical investigation onsite, groundwater was measured between 9.5 feet to 16.5 feet below the existing surface. Groundwater flow is unlikely to impact the proposed development of the site. The proposed building expansion is anticipated to be supported by a shallow foundation.

4.5 Water Migratory Pathways

Potential migratory pathways for surface water and groundwater entering and exiting the subject property are important in establishing the potential for surrounding areas to impact the subject property or for the subject property to impact downgradient neighboring properties. Local topography slopes to the west. Surface water and groundwater, therefore, are expected to migrate from the properties located to the east.

The known fastest migration pathways from the site to the shallow aquifer and Delaware River is the existing storm infrastructure in the area of the manufacturing building parking lot, which connects to the existing sewer outfall within Holtec Boulevard.

4.6 Surface Water Resources

4.6.1 Surface Drainage

Surface water on the site drains from the eastern portion of the site, around the proposed building, in the westerly direction towards the Delaware River. The original drainage system installed under the previous HTC project which collects and manages runoff onsite, and discharges to the Delaware River (tidally influenced).

Stormwater is managed onsite through multiple green infrastructure (GI) manufactured treatment devices to treat water quality. Runoff ultimately outfalls to the Delaware River.

4.6.2 Floodplains

According to the National Flood Insurance Program's Flood Insurance Rate Map FEMA Panels #34007C0036F, dated August 17, 2016, the proposed parking lot

expansion is located in the FEMA flood hazard area (Zone AE), with base flood elevation 9.0. The proposed building addition is in the FEMA flood hazard area (Zone AE), with base flood elevation 10.0. Note, base flood elevations are in North American Vertical Datum of 1988 (NAVD 88). A copy of the FEMA map is shown on Figure 8.

The minimum finished first floor of the proposed building addition will be 12.26 feet, matching the existing floor elevation. The lowest point of the parking lot expansion is approximately 7 feet in elevation.

4.6.3 Freshwater Wetlands

Desktop research utilizing NJDEP Geoweb webpage was conducted to identify potential areas that could be considered regulated features as defined in the New Jersey Freshwater Protection Act Rules (NJAC 7:7A) including freshwater wetlands, State open waters, transition areas, and certain ditches and swales.

Per the NJDEP Geoweb, no freshwater wetlands are present onsite. However, wetland areas, associated with Newton Creek, were identified within 300-feet to the subject Site. A copy of Wetlands Map is included in Figure 9.

4.7 Vegetation

The existing site is a maintained lawn and soil aggregate. The lawn was seeded to stabilize the area until construction of the next phase of the development.

4.8 Wildlife Habitat

According to the NJDEP GeoWeb Online Mapping Application, the property falls within landscape region SBH Piedmont Habitat. The project site is within the Rank 1 – Habitat Specific Requirement, an area part of a contiguous Riparian Corridor path. The urban and developed land with minimal vegetation onsite is not suitable habitat for native wildlife.

Per the NJDEP Geoweb, the site has no record of Federal and/or State Threatened or Endangered wildlife species. A copy of the NJDEP GeoWeb Habitat Map is included under Figure 10.

4.9 Aquatic Habitat

The project does not propose any improvements within the mean high water of the Delaware River. There are no records of aquatic habitats found at the site.

4.10 Archeological & Historical Features

The subject property is listed under Historic District New York Shipbuilding Company. The surface coverage withing the project area is comprised of maintained lawn and soil aggregate. Currently, site contains no buildings or structures that hold historical value. See Figure 11 for Historical Map.

4.11 Air Quality

Ambient air quality in the vicinity is tracked by the NJDEP. The project site lies near the South Camden Station located at 2-298 Jackson Street in Camden, NJ. This station monitors air quality parameters including ozone and particulate matter on an hourly and daily basis. At the time of preparation of this report, the NJDEP was reporting "moderate" air quality for this region with “good” levels of pollutants such as carbon monoxide and ozone (O3), but “moderate” levels for particulates.

According to the 2024 New Jersey Air Quality Report, New Jersey averaged "good" air quality 211 days, "moderate" air quality 134 days, and "unhealthy for sensitive groups" 21 days during the year.

Air quality at the site is not anticipated to be impacted due to the slight increase and intervals of vehicular traffic accessing the site. The project development will result in a minor increase of thirty-two (32) new parking spaces.

4.12 Noise Levels

The existing condition of the site is developed, with manufacturing and warehouse use. Currently, noise levels are generated by employee vehicular traffic along South Broadway and Holtec Boulevard, and manufacturing processes.

After completion of the project, the noise level will be reduced to industrial use under preconstruction conditions. Noise generating operations that will occur onsite including vehicular traffic, pedestrian activities, and manufacturing activities and equipment. Noise levels are anticipated to be at levels far below those allowed by State regulations and below the existing noise levels generated from adjacent South Broadway / Broadway. Further, landscape buffering and equipment enclosures are proposed to decrease offsite noise levels.

The noise levels contribution from the new development will not increase overall noise levels in the area.

4.13 Traffic

Under preconstruction conditions, the surrounding roadway network operates at a level-of-service (LOS) D or better during am and pm peak hours. The project will generate increased traffic trips to the roadway network during peak hours. However, the increase in site trips will not result in a degradation in the overall LOS. Under 2026 build conditions, the surrounding intersections continue to operate at an overall LOS D or better. A separate Traffic Report prepared by Pennoni addresses the traffic generation, circulation, and impacts.

The building addition, parking lot expansion, and widening of Holtec Boulevard will not result in a significant increase in traffic on the adjacent roadway network and will

not result in an appreciable impact to the operation or traffic flow at the signalized and unsignalized intersections within the studied area.

5.0 PROJECT IMPACTS & PROTECTIVE MEASURES

This section contains a discussion of the potential project impacts on the site, surrounding area, and environment that may occur as a result of the proposed site improvements. A discussion of potential mitigation measures and best management practices (BMPs) that may be employed before, during, and after construction to minimize potential impacts of the proposed project has also been included. These measures will serve to reduce and/or eliminate potential adverse impacts to the site, surrounding area, and environment so that the overall environmental impact of the project may be reduced.

5.1 Impacts to Topography

The project will be graded to a finished floor elevation of 12.26 feet for the manufacturing building addition. Portions of the site will be filled to raise elevations to accommodate the proposed finished floor height as well as ensure surface water flows away from the building and towards the stormwater collection system proposed on-site.

Site fill areas are anticipated up to three (3) feet above existing grade. No areas of distinct topographical features or significant steep slopes exist. The proposed grading design will not significantly impact the site topography. The site will result in a net “cut” condition resulting in excess soil material.

5.2 Soil Erosion and Sediment Control

Soil erosion and sedimentation can occur both during the construction and operational phases of the project. During the construction phase, stormwater runoff and wind may result in the movement of soils and sediments from materials. This impact will be controlled through the implementation of an approved Soil Erosion and Sediment Control Plan approval by the Camden County Soil Conservation District as well as by careful adherence to the sequence of construction described in Section 3.3 above.

Anticipated BMP's to be included in the Soil Erosion and Sediment Control Plan include minimizing the area of disturbance, placement of silt fencing around the limit of disturbance, temporary soil stockpiles surrounded with silt fencing, temporary vegetative cover standards, inlet filter covers over all existing and proposed stormwater inlets, proposed water quality measures and an anti-tracking stabilized construction entrance. Soil management factors that prevent erosion hazards and minimize the creation of airborne particulate and dust will be monitored by the onsite inspector for the proposed construction.

Following completion of construction, soil erosion and sediment control will be continued through measures such as the implementation and maintenance of the stormwater management system, inlet filter grates, permanent vegetative cover, stabilized stormwater outfall structures, regular property maintenance, and curbing.

5.3 Impacts to Geology

Surficial impacts to geology will be required for the placement of the underground utility and drainage infrastructure and construction of the building foundation. Excavations required for the building and utilities / drainage pipes are not anticipated to exceed ten (10) feet. Adverse impacts to the geology of the site and surrounding area are not expected to occur as a result of the proposed development.

5.4 Water Quality

The impervious surfaces subject to vehicular traffic are classified as "pollutant generating surfaces" and will be treated for water quality under the proposed development to the maximum extent practicable. The proposed improvements will be treated for water quality through existing and proposed structural BMPs to the standards set forth in the stormwater management rules (NJAC 7:8).

A separate Stormwater Management Report has been prepared by Pennoni which details the Stormwater Management approach for the site.

5.5 Flooding or Floodplain Disruption

Based on the respective FEMA Flood Panel Map, the site is located in the flood hazard area of the Delaware River and Newton Creek. The FEMA map indicates a portion of the proposed parking lot expansion is located within Zone AE which requires an elevation of 9.0 feet. The new asphalt will have areas with an elevation of less than 9.0 feet. However, the area intended for vehicular parking will be above the FEMA base flood elevation. The remaining expansion area, under elevation 9.0 feet, will be used as a laydown area with vehicular parking restricted.

The proposed building addition is in the FEMA flood Zone AE of Newton Creek, with base flood elevation 10.0. The minimum finished first floor of the proposed building addition will be set 2.26 feet above the flood elevation at 12.26 feet, matching the existing building floor elevation. The building expansion is located on portions of the property where higher ground exists. Where feasible, the mechanical and electrical equipment will be set one (1) foot above the climate adjusted flood elevation.

The project proposes disturbance and improvements in the existing Zone AE flood hazard area. An NJDEP individual permit will be obtained to allow disturbances.

A Figure 8 for a copy of the FEMA map.

5.6 Surface Drainage

Surface drainage generally flows from east to west towards the Delaware River. The proposed site will be graded to convey surface runoff from the east towards the west side of the property, connecting to the existing stormwater infrastructure on-site. The parking lot drainage will be collected by catch basins and conveyed by piping through

Manufactured Treatment Devices (BMP) to achieve water quality. The runoff will ultimately discharge to the Delaware River.

5.7 Groundwater Pollution

Typical sources for groundwater pollution include infiltration of contaminated stormwater, malfunctioning septic systems, underground storage tank leakage, and uncontrolled discharges of industrial manufacturing wastes. The proposed project will not generate any of these waste streams. Per NJDEP Geoweb Map, there is an existing underground storage tank (UST) near the project site but is recorded as terminated. See Figure 12.

Stormwater management design will include methods to safely collect and treat stormwater runoff from high pollutant loading areas and parking in compliance with all applicable State stormwater regulations.

Additionally, stormwater runoff from the site will not be infiltrated into the existing soil. The design does not include a groundwater recharge component in the stormwater management design as the project site is within a designated Urban Center. Groundwater recharge is not required within an "Urban Redevelopment Area" pursuant to NJAC 7:8-5.4(b)2 that has been previously developed.

No hazardous discharge is proposed to be released into the surface water and is not anticipated to adversely impact groundwater recharge into the underlying aquifer system.

5.8 Water Supply & Reduction of Groundwater Capabilities

Potable water will continue to be supplied to the site by the City of Camden via a service connection to the existing watermain. No potable wells are proposed for the project.

Water service to the new building expansion will be a service line extension from the existing building. A connection will be made inside the building. No new water service connection is proposed under this project.

5.9 Wastewater Management

Sanitary sewage generated from the building addition will flow through a service extension from the existing building. The sewer flow will enter the existing public sanitary sewer main in Holtec Boulevard, and continues to the Camden County Municipal Utilities Authority (CCMUA) treatment facility. We are coordinating with the CCMUA Engineer to determine if the local sewage treatment plant has adequate capacity for the proposed development. An application will be made to the CCMUA for the proposed additional sewer demand.

Types of wastewater include sanitary wastes and typical domestic water wastes. The proposed wastewater flows will not require any amendments to the applicable

wastewater management plan. No new sewer laterals are proposed under this project. All sewer lateral extensions will occur inside the building.

5.10 Vegetation Destruction

Under existing conditions, the project site land cover consists of maintained lawn and soil aggregate. Vegetative communities present on site do not exhibit suitable habitat for native wildlife. In addition, per the NJDEP Geoweb, the site has no record of Federal and/or State Threatened or Endangered wildlife species.

To positively impact vegetation and natural vegetative communities, the proposed project includes a perimeter landscape berm island around the parking area expansion. The plantings are native species. Native grass and perennial seed mixes shall be utilized for the remaining open areas.

5.11 Disruption of Wildlife Habitat

As stated above, the site and surrounding area is not documented to contain suitable habitat for any threatened or endangered species. No adverse impacts to any threatened or endangered species or their respective habitat is anticipated to occur because of the proposed site improvements.

As identified in Section 4.9 above, no aquatic habitats or biota are present onsite. Direct impacts to aquatic habitats or biota will not occur as a result of the proposed site improvements.

5.12 Solid Waste Disposal

During construction, construction waste and materials will be collected, transported, and disposed of offsite by a private contractor. All wastes will be exported off-site to appropriate collection facilities based on the type and quantity of materials. Burning or dumping of onsite debris will not be permitted.

Upon completion of construction, operational wastes will also be collected by a private hauler for proper disposal and/or recycling off site. Solid waste disposal will be performed in accordance with all applicable local, county, and State standards and regulations.

5.13 Air Quality Degradation

During construction, all possible measures to reduce air pollution from construction equipment emissions will be taken. Construction equipment will only be operated on an as needed basis and prolonged idling will not be permitted. Dust will be controlled by the onsite contractor, specifically through watering of soil surface during periods of dry weather and windy conditions.

The proposed development will only engage in industrial or processing activities resulting in the discharge of emissions into the air within permitted regulatory standards. Impacts

to air quality at the site are limited to that from vehicular traffic from employees, deliveries, visitors, and operations.

5.14 Noise Level Increases

The State of New Jersey regulates noise under the New Jersey Noise Control Act, N.J.A.C. 7:29. This Act contains both protocols for assessing noise impacts as well as the allowable noise levels. Permissible noise levels differ for residential properties and industrial/commercial zoned areas. The regulations are as follows:

Residential:
7:00 AM - 10:00 PM 65 DBA at the nearest property line
10:00 PM -7:00 AM 50 DBA at the nearest property line

Industrial/Commercial:
65 DBA at the nearest property lines at all times.

During the construction phase, the noise levels will be slightly elevated because of construction activities, such as the operation of construction equipment. No blasting will occur. These disturbances will be limited to the site construction time period and normal working hours. After completion of the project, the noise level will be reduced to normal commercial and residential levels. Noise generating operations that will occur onsite include vehicular traffic, pedestrian activities, mechanical equipment (air conditioners, trash compactors, etc.) and delivery activities.

Noise is anticipated to be at levels below allowable by State regulations. The proposed development is anticipated to have a negligible impact to the property and surrounding vicinity given the proposed building addition use is similar to other facilities currently onsite, and other industrial uses in the surrounding area.

5.15 Destruction or Degradation of Archeological and Historic Features

There is a low probability of the existence of any archeological resources near the soil surface that would be potentially disturbed during construction as the site is previously disturbed. Should any archeological resources or remains be encountered during construction, all construction activities will immediately cease, the proper authorities will be notified, and the matter will be handled in accordance with all applicable laws, regulations, and standard operating procedures.

5.16 Impacts on Traffic

An amended Traffic Impact Study (TIS) prepared by Pennoni addresses the traffic generation, circulation, and impacts. The scope of this report included existing traffic volumes as well as those of the proposed development. The report documents any necessary improvements to account for increased vehicle trip generation to provide satisfactory levels of service.

5.17 Socio-Economic Impacts

Population increase is not expected to occur due to the proposed project. No people, farms, or existing businesses shall be displaced by the proposed development. There are no projected impacts to municipal services such as schools, police, or fire. In compliance with local zoning and the Master Plan, the proposed project is consistent with surrounding land uses and will not result in undesirable land use patterns.

The redevelopment will create jobs, a viable city ratable and increase adjacent land value.

5.18 Impacts to Aesthetics

The proposed development on the site is anticipated to have a significant positive impact on aesthetics. The current stone aggregate area in front of the existing building will be transformed into an expanded manufacturing facility, utilizing high performance planning strategies and highlighting exceptional architecture.

5.19 Artificial Lighting

Exterior lighting is proposed throughout the project site for adequate illumination the exterior of the building addition. The lighting plan will be designed in accordance with all applicable City of Camden regulations and IES standards. The road widening and parking lot expansion will utilize existing site lighting installed under the 2016 HTC construction.

The lighting design is proposed to satisfy the minimum and average illumination levels measured in foot candles and shall not significantly exceed max lighting levels on site and at the project boundaries. Site lighting shall utilize energy efficient LED vertical cutoff fixtures to assist in reducing ambient light pollution.

5.20 Critical Areas

Critical environmentally sensitive areas (wetlands transition area, flood hazard area) are present onsite. Adverse impacts to critical areas are not anticipated to occur from the proposed site improvements. All required NJDEP permitting for the proposed improvements will be obtained prior to the start of construction.

5.21 Energy Conservation

Energy will be required for interior and exterior lighting, manufacturing equipment, as well as computer and security systems within the buildings. The development anticipates the use of clean and efficient energy use and will be served by electric. The burning of coal, oil, or other non-renewable fuels is not proposed. Additional information regarding energy usage will be available upon preparation and review of architectural plans. The site is expected to meet all energy efficiency requirements present in the existing regulations and codes. Existing site lighting will be used to illuminate the road widening and parking lot expansion.

6.0 LIST OF ENVIRONMENTAL PROTECTION MEASURES

The following is a listing of environmental protection and mitigation measures within the site design to be employed during site construction and operation.

- Minimization of the area of disturbance. Minimization of the area of clearing of vegetation.
- Placement of silt fencing around the limit of disturbance temporary soil stock pile.
- Existing and proposed inlet filter covers. Stabilized anti-tracking stone construction entrances.
- Parking areas have been proposed with minimal slopes to decrease the velocity of overland flows.
- Proposed landscaping including plantings of native species.
- Low maintenance landscaping shall be planted.
- Lawn areas utilize native grass species and potential use of fertilizers and pesticides has been minimized.

7.0 ANTICIPATED REQUIRED LICENSES, PERMITS, AND APPROVALS

Agency	Type	Status
City of Camden. Planning Board	Preliminary & Final Site Plan Approval	Pending
Camden County Planning Board	Final Site Plan Approval	Pending
Camden County Soil Conservation District	Certification	Pending
Water and Sewer Connection Permits	Permit Approval	Pending
NJDEP Waterfront Development Permit	Permit Approval	Pending
NJDEP Flood Hazard Area Individual Permit	Permit Approval	Pending

8.0 SUMMARY

The project is located within New Jersey's Urban Center and Growth Area. This sector invites development such as that represented by this application. The proposed development will not pose a negative effect on the surrounding environmental resources. No new facilities we be constructed under this project, rather the proposed improvements consist of expansion of existing.

The site improvements have been designed to be compatible with surrounding uses and minimize impacts to natural features in the area of the site. Minor impacts will be minimized and mitigated through proper engineering, planning and design, proper construction management techniques, as well as implementation of the various mitigation measures and BMP's discussed within this

assessment and defined within the site plan package. The project will be designed to comply with local, county, and State development standards and planning objectives and will not pose significant impacts to the natural environment or local community.

9.0 REFERENCES

Federal Emergency Management Agency. Flood Insurance Rate Map, Community Panel #34007C0036F. Dated: 8/17/2016.

Natural Resources Conservation Service (NRCS). Soils Map. 2026: http://websoilsurvey.nrcs.usda.gov

New Jersey Department of Environmental Protection (NJDEP): Bureau of Air Monitoring, https://dep.nj.gov/airmon/

NJ-GeoWeb, https://experience.arcgis.com › experience

Master Plan, The City of Camden, NJ; March 12, 2002; Planning Board of the City of Camden.

USGS Bedrock Geologic Map of Central and Southern New Jersey, prepared by James P. Owens, Peter J. Sugarman, Norman F. Sohl, Ronald A. Parker, Hugh F. Houghton, Richard A. Volkert, Avery A. Drake, Jr., and Randall C. Orndorff, published by the USGS in 1999.

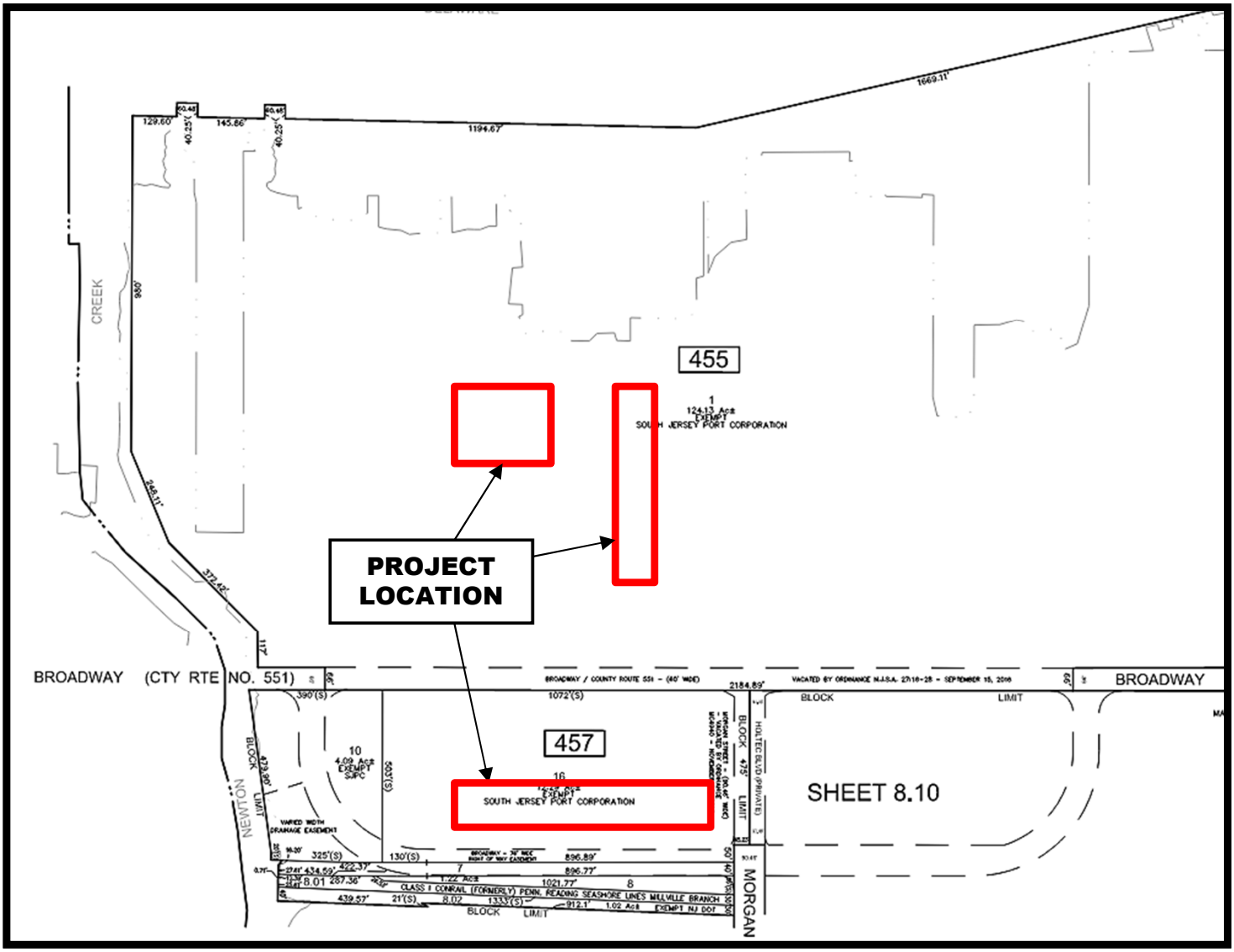
NJGS. Open File Report: Guidelines for Delineation of Well Head Protection Areas in New Jersey. 2003.

New Jersey State Planning Commission. New Jersey State Development and Redevelopment Plan. 2006.

Camden, NJ-PA & Philadelphia, PA, USGS, 7.5-minute topographic quadrangle, 2016.

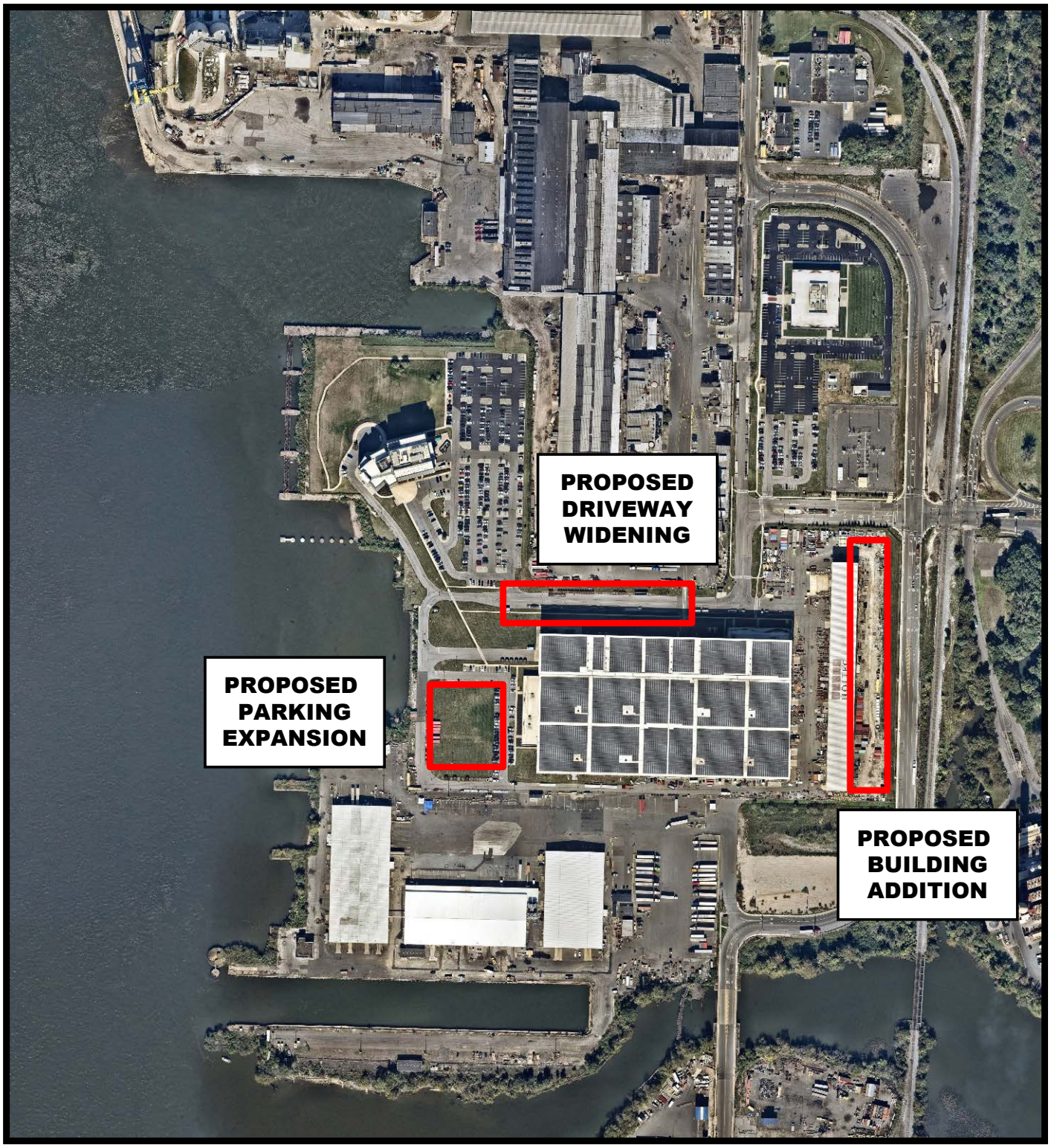
FEMA'S National Flood Hazard Area (NFHL) Viewer website. FEMA's National Flood Hazard Layer (NFHL) Viewer

Figures



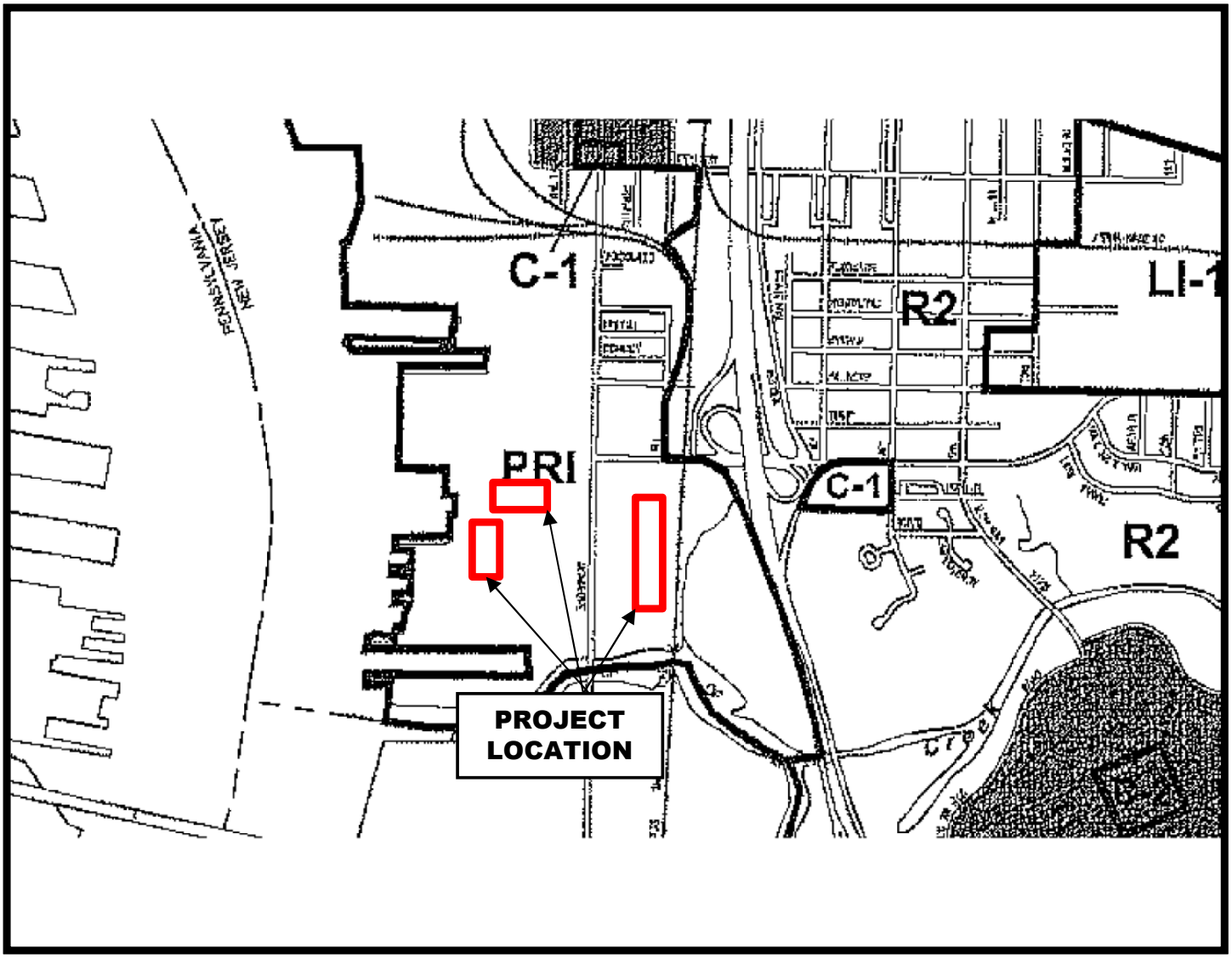
City of Camden Tax Map Plate 8.12

Pennoni PENNONI ASSOCIATES INC. 2 AQUARIUM DRIVE, SUITE 320 CAMDEN, NEW JERSEY 08103		HTC BLDG EXPANSION & DRIVEWAY WIDENING BLOCK 455, LOT 1; BLOCK 457, LOT 16 CITY OF CAMDEN, CAMDEN COUNTY NEW JERSEY
Job No. USATX24001	Scale: NTS	Figure 1 –Tax Map



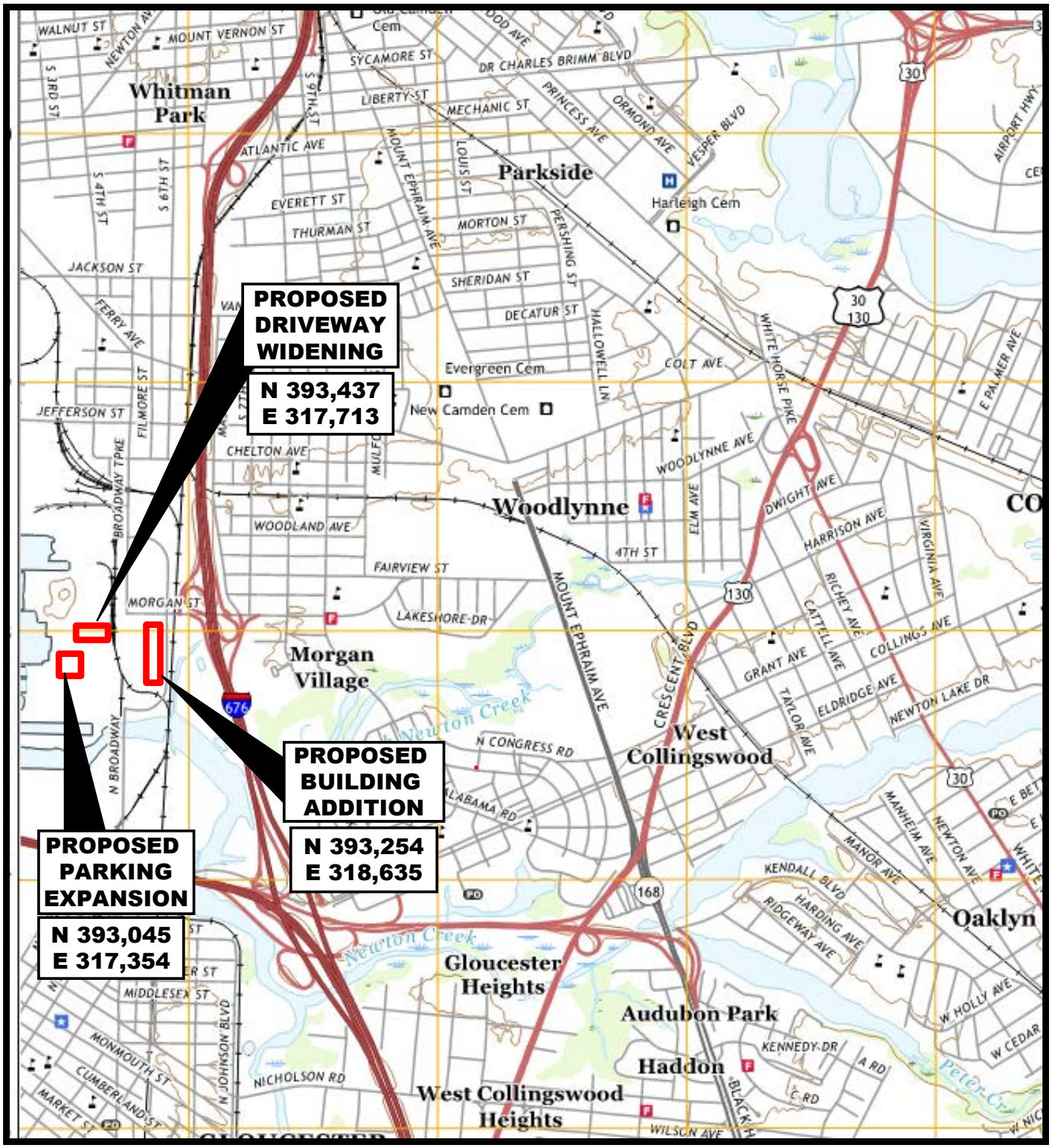
Nearmap Imagery – 10/09/2025

Pennoni PENNONI ASSOCIATES INC. 2 AQUARIUM DRIVE, SUITE 320 CAMDEN, NEW JERSEY 08103	HTC BLDG EXPANSION & DRIVEWAY WIDENING BLOCK 455, LOT 1; BLOCK 457, LOT 16 CITY OF CAMDEN, CAMDEN COUNTY NEW JERSEY	
Job No. USATX24001 / Scale: NTS	Figure 2 –Location Map	



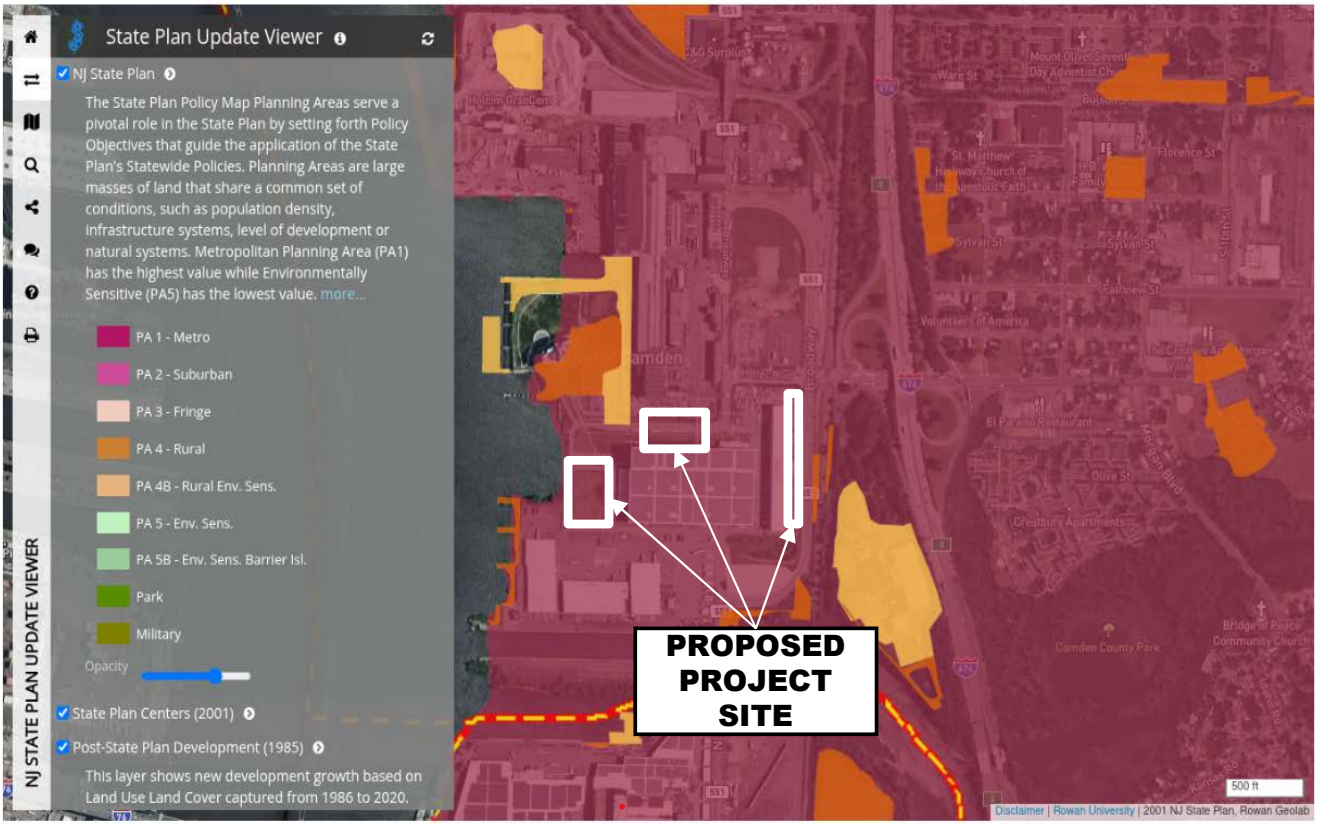
City of Camden Zoning Map, July 2008
Zoning District: PRI Port Related Industrial

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Job No. USATX24001	Scale: NTS	Figure 3 –Zoning Map



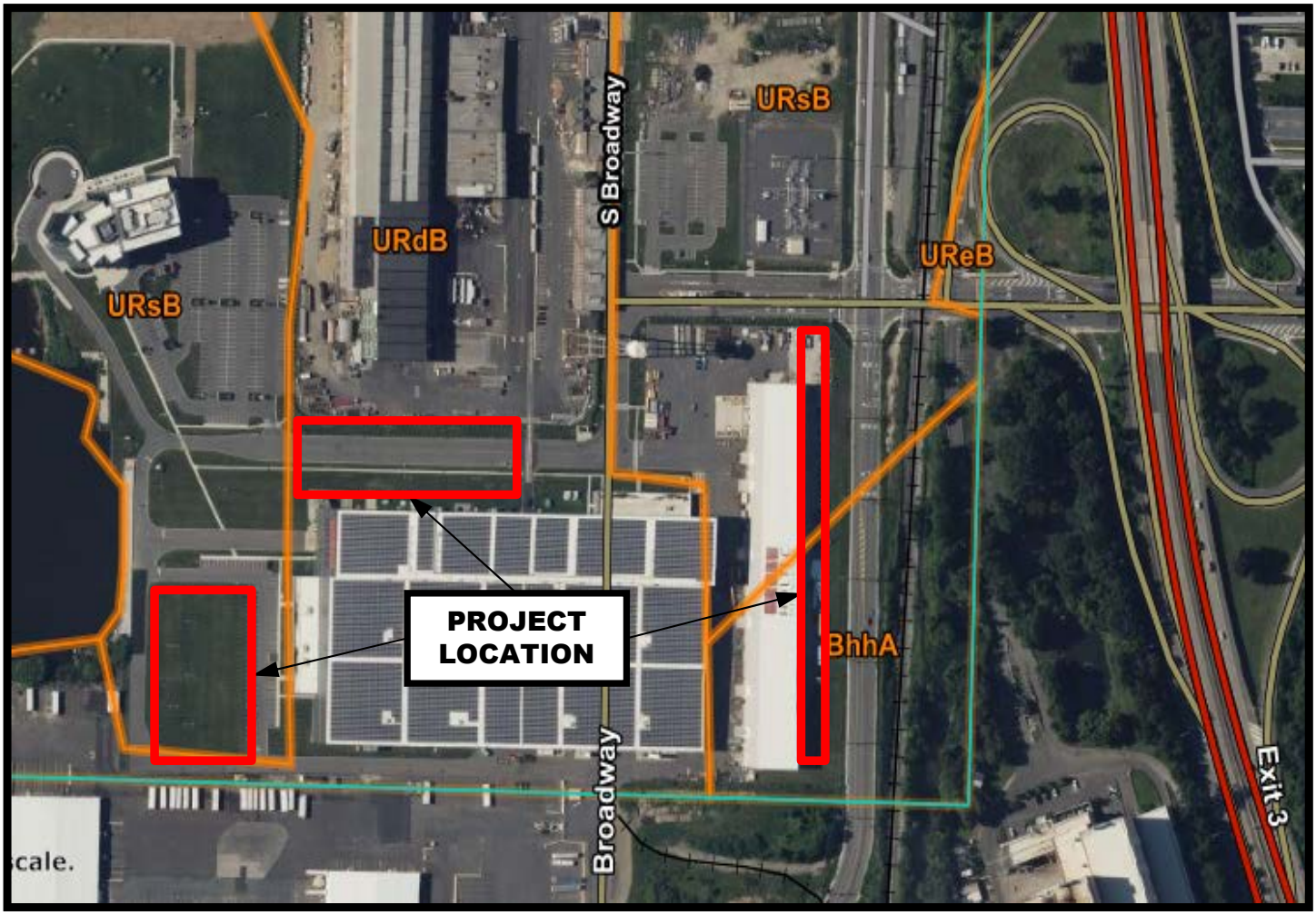
USGS 7.5 Min. Camden Quadrangle, Camden County, New Jersey

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Job No. USATX24001	Scale: NTS	Figure 4 –USGS Map



NJ Map: New Jersey State Plan Viewer
PA-1 - Metro

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Job No. USATX24001	Scale: NTS	Figure 5 – State Plan Policy Map Planning Areas

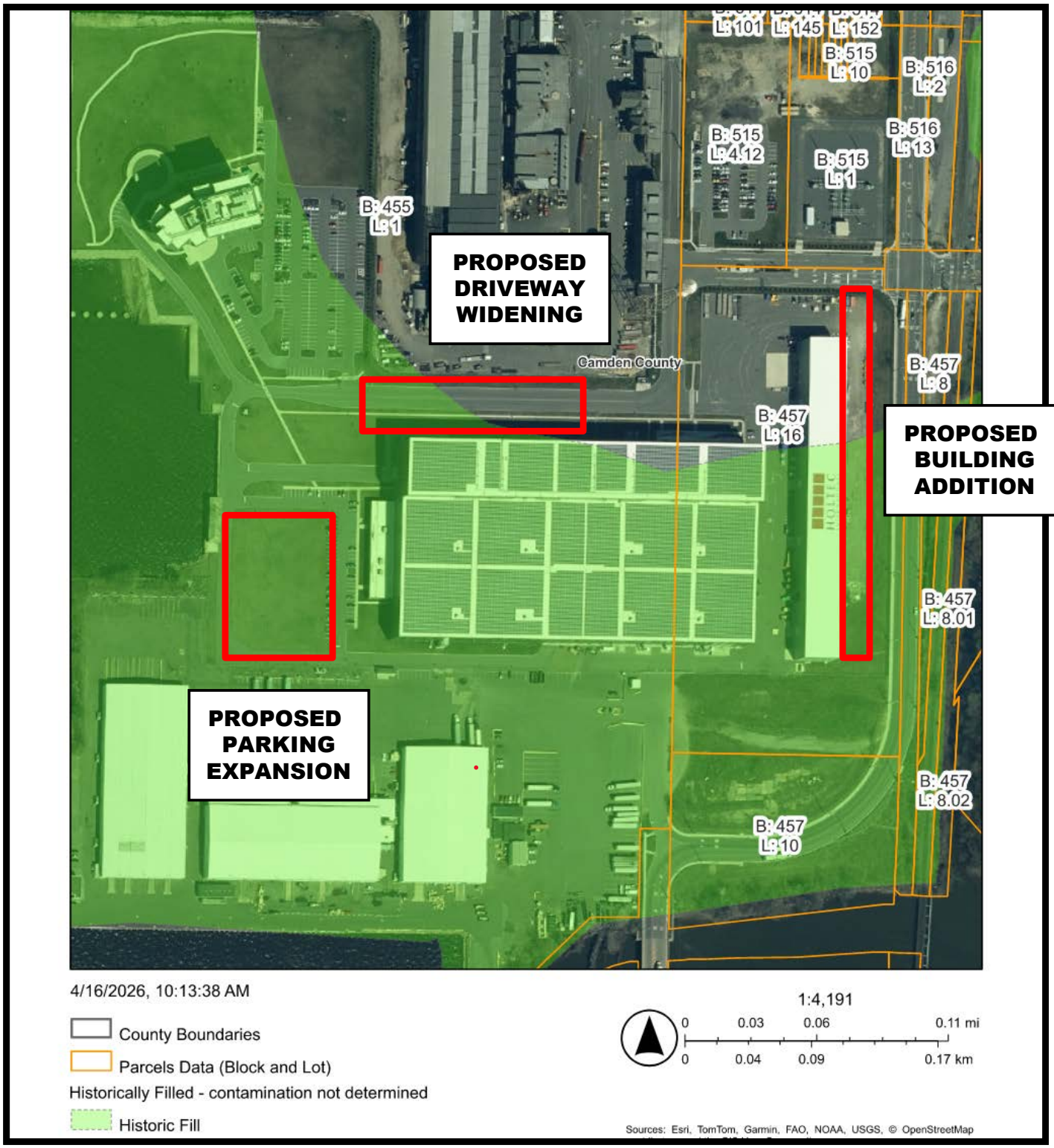


Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BhhA	Bigapple sandy loam, 0 to 2 percent slopes	6.7	6.4%
URdB	Urban land, sandy substratum, 0 to 5 percent slopes	40.7	38.6%
UReB	Urban land-Anthroportic Udorthents complex, transportation corridor, 0 to 10 percent slopes	0.5	0.5%
URsB	Urban land-Sauken complex, 0 to 5 percent slopes	43.2	41.1%
WATER	Water	14.2	13.5%
Totals for Area of Interest		**105.3**	**100.0%**

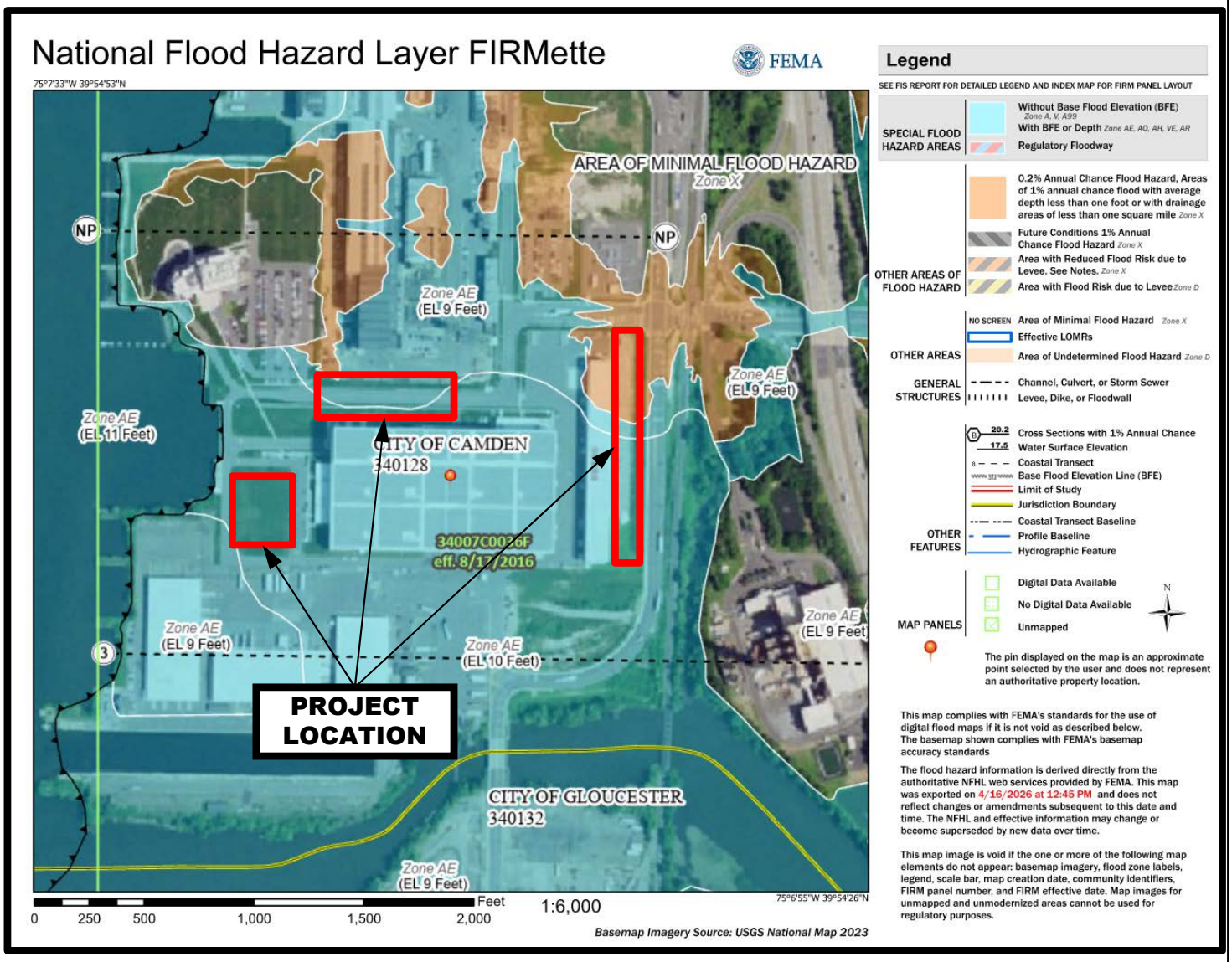
NRCS WebSoil Survey, Camden County, NJ

Pennoni PENNONI ASSOCIATES INC. 2 AQUARIUM DRIVE, SUITE 320 CAMDEN, NEW JERSEY 08103	HTC BLDG EXPANSION & DRIVEWAY WIDENING BLOCK 455, LOT 1; BLOCK 457, LOT 16 CITY OF CAMDEN, CAMDEN COUNTY NEW JERSEY	
Job No. USATX24001 / Scale: NTS	Figure 6 –Soils Map	



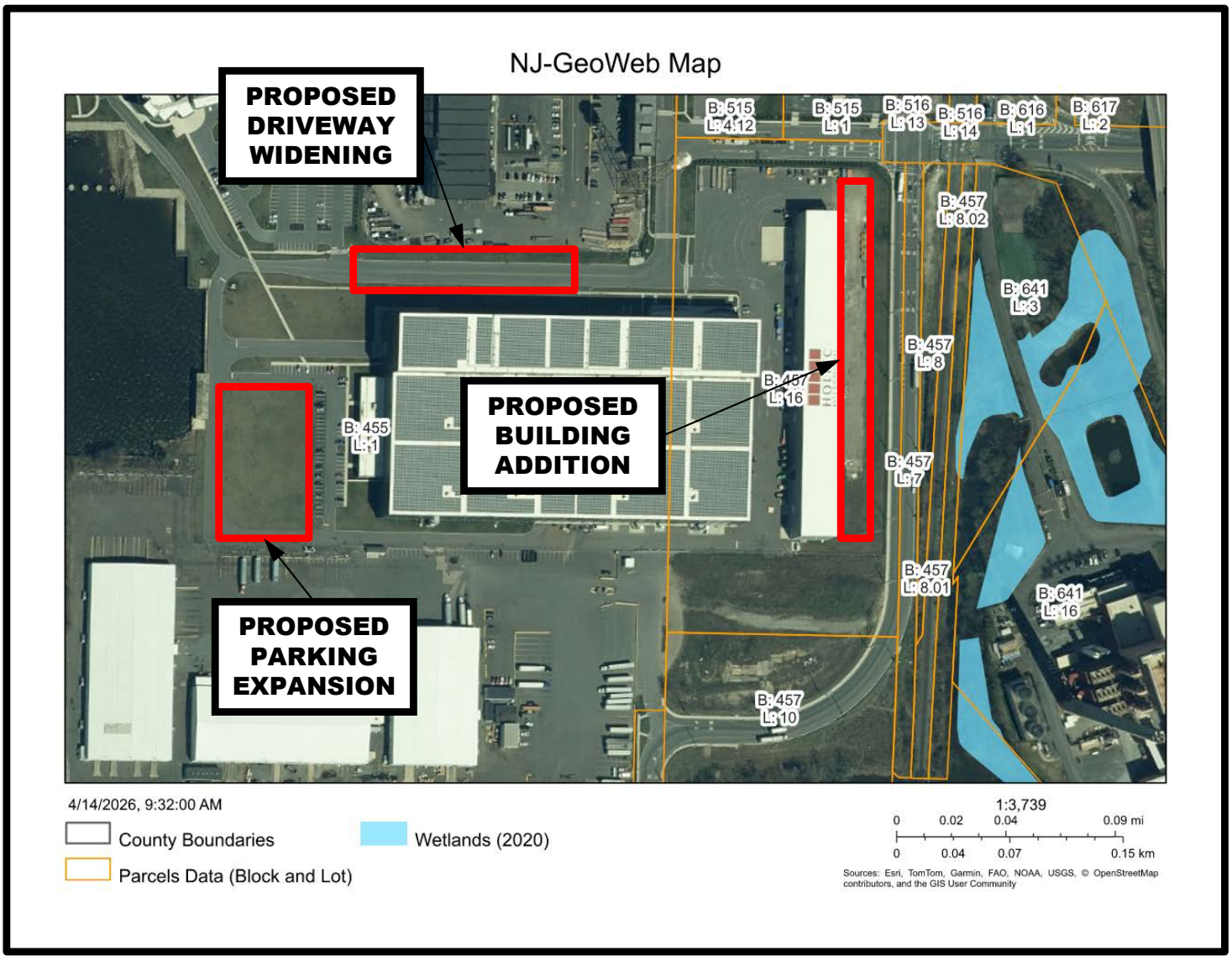
NJDEP GEOWEB ARC GIS ONLINE PLATFORM

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Job No. USATX24001	Scale: NTS	Figure 7 - Historic Fill Map



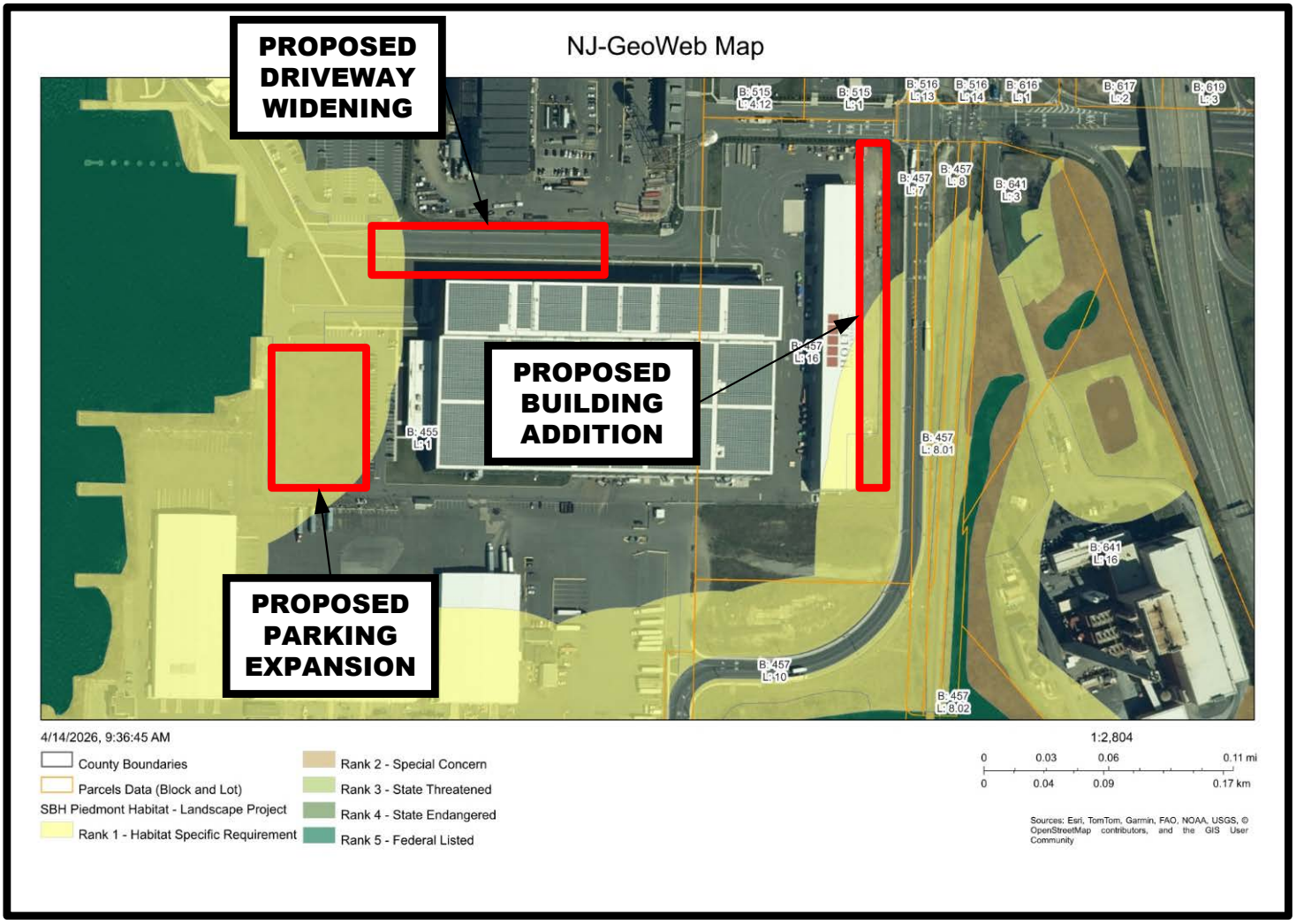
FEMA Map 34007C0036F, Effective 8/17/2016

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Job No. USATX24001	Scale: NTS	Figure 8 –FEMA Flood Map



NJDEP GEOWEB ARC GIS ONLINE PLATFORM

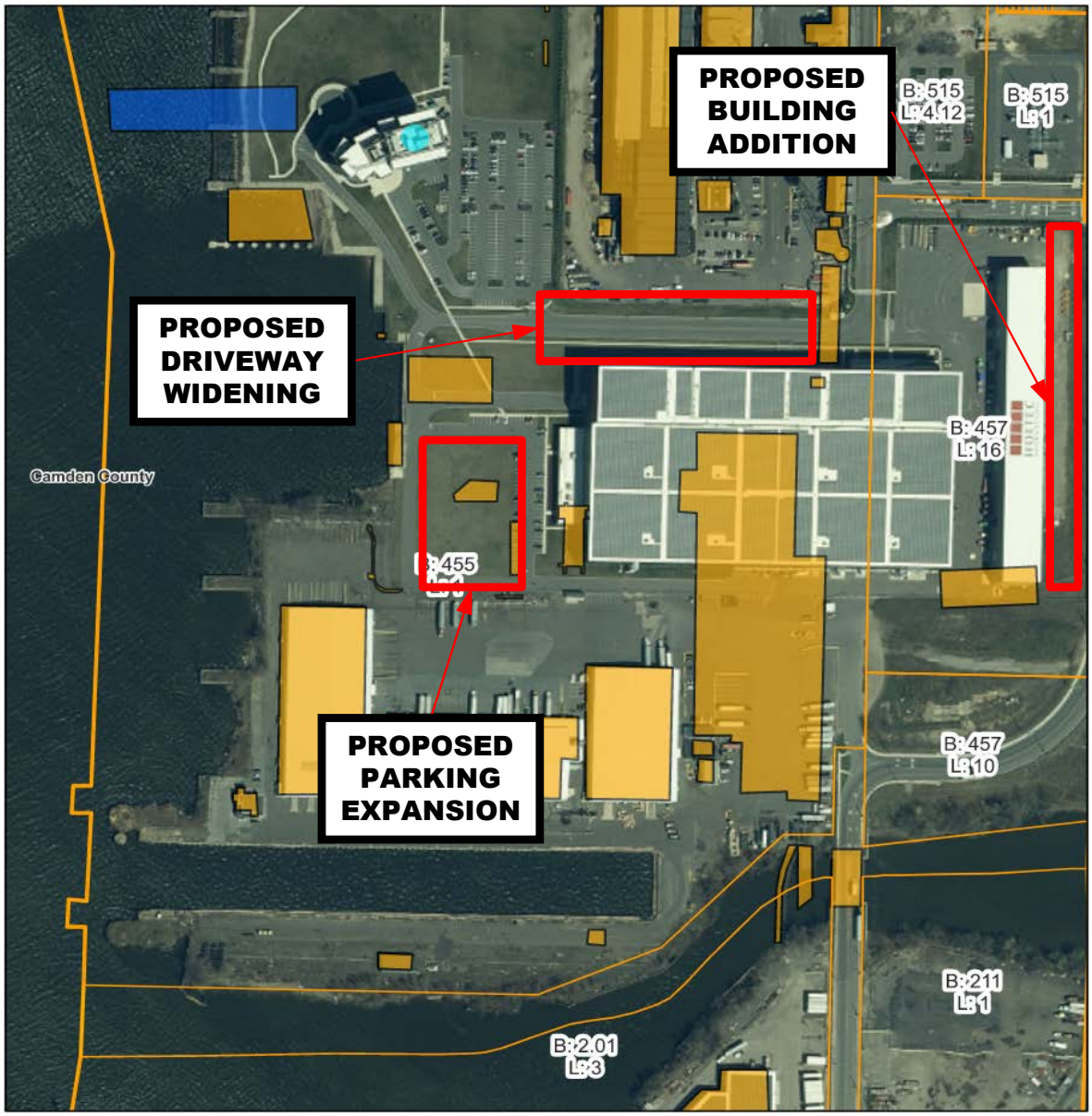
Pennoni PENNONI ASSOCIATES INC. 2 AQUARIUM DRIVE, SUITE 320 CAMDEN, NEW JERSEY 08103		HTC BLDG EXPANSION & DRIVEWAY WIDENING BLOCK 455, LOT 1; BLOCK 457, LOT 16 CITY OF CAMDEN, CAMDEN COUNTY NEW JERSEY
Job No. USATX24001	Scale: NTS	Figure 9 –Wetlands Map



NJDEP GEOWEB ARC GIS ONLINE PLATFORM
Rank 1 – Habitat Specific Requirements

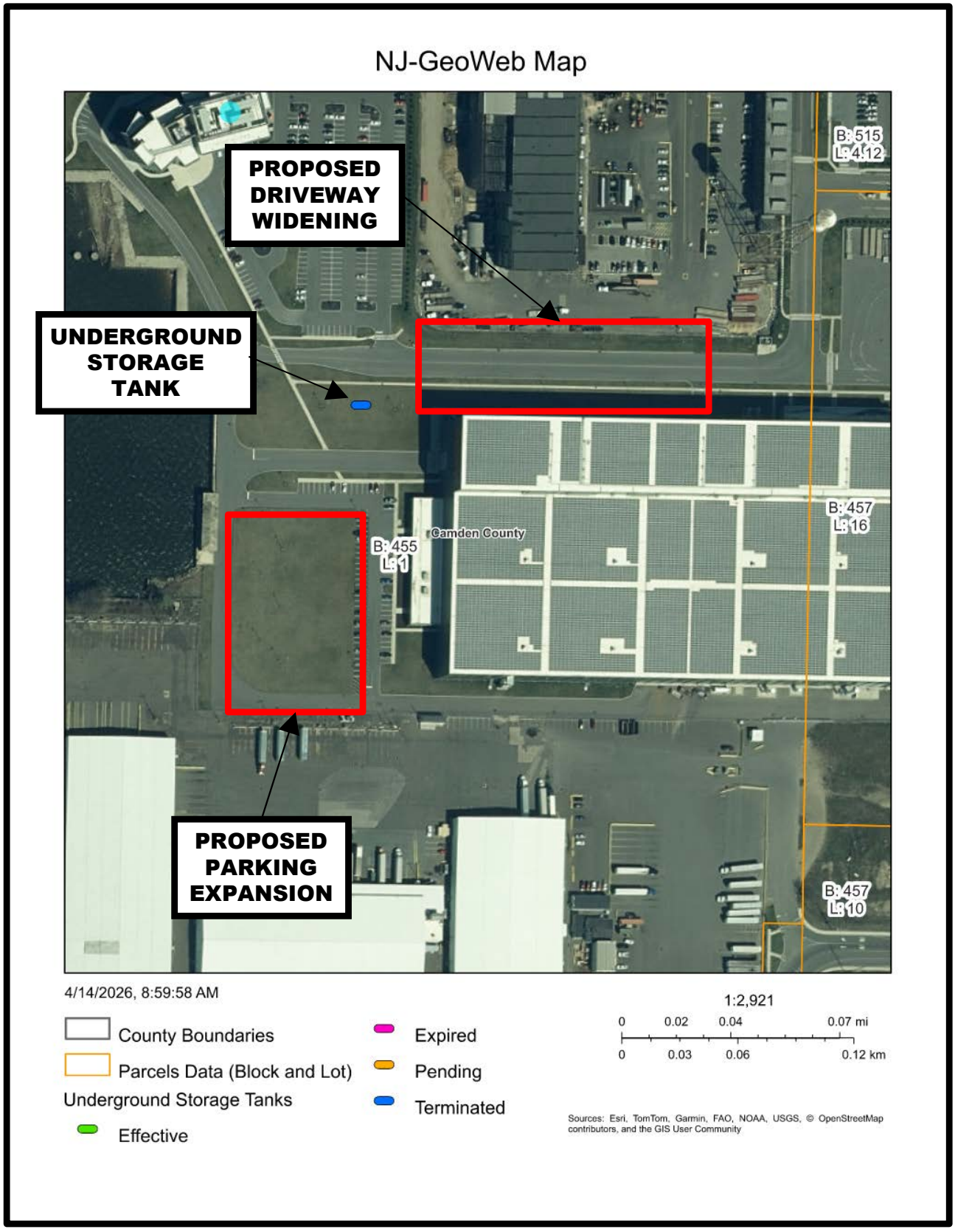
Pennoni	PENNONI ASSOCIATES INC. 2 AQUARIUM DRIVE, SUITE 320 CAMDEN, NEW JERSEY 08103	HTC BLDG EXPANSION & DRIVEWAY WIDENING BLOCK 455, LOT 1; BLOCK 457, LOT 16 CITY OF CAMDEN, CAMDEN COUNTY NEW JERSEY
Job No. USATX24001	Scale: NTS	Figure 10 –Habitat Map

NJ-GeoWeb Map



NJDEP GEOWEB ARC GIS ONLINE PLATFORM
Eligible HD

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Job No. USATX24001	Scale: NTS	Figure 11 –Historical Map



NJDEP GEOWEB ARC GIS ONLINE PLATFORM
Underground Storage Tank (UST) - Terminated

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Job No. USATX24001	Scale: NTS	Figure 12 –Underground Storage Tank Map

Appendix A

Site Plan

N.J.S.P.C.S.

I-676

NEWTOWN CREEK

DELAWARE RIVER

MH-102

WQU-121 Vortechs 16000, x2

Inlet #	Impervious (SF)	Impervious (Ac)	Impervious "C"	Pervious (SF)	Pervious (Ac)	Pervious "C"	Total Area (Ac)	Composite "C"	I (in/hr)	Q=CIA
122	7,800	0.18	0.99	992	0.02	0.65	0.20	0.96	3.200	0.61
122A	18,650	0.43	0.99	0	0.00	0.65	0.43	0.99	3.200	1.36
122B	18,559	0.43	0.99	0	0.00	0.65	0.43	0.99	3.200	1.36
122D	8,981	0.21	0.99	0	0.00	0.65	0.21	0.99	3.200	0.67
122E	4,633	0.10	0.99	3,531	0.08	0.65	0.18	0.84	3.200	0.48
123	3,000	0.07	0.99	0	0.00	0.65	0.07	0.99	3.200	0.22
124	12,468	0.29	0.99	4,426	0.10	0.65	0.39	0.9	3.200	1.12
124A	3,268	0.08	0.99	0	0.00	0.65	0.08	0.99	3.200	0.25
124B	3,234	0.07	0.99	2,717	0.06	0.65	0.13	0.83	3.200	0.35
125	13,033	0.30	0.99	9,310	0.21	0.65	0.51	0.85	3.200	1.39
126A	11,147	0.26	0.99	5,593	0.13	0.65	0.39	0.88	3.200	1.10
126	11,400	0.26	0.99	0	0.00	0.65	0.26	0.99	3.200	0.82
127	12,499	0.29	0.99	7,414	0.17	0.65	0.46	0.86	3.200	1.27
128	14,995	0.34	0.99	1,710	0.04	0.65	0.38	0.95	3.200	1.16
129	33,953	0.78	0.99	1,732	0.04	0.65	0.82	0.97	3.200	2.55
130	26,915	0.62	0.99	1,700	0.04	0.65	0.66	0.97	3.200	2.05
		4.71					5.40	0.93		10.75

WQ UNIT 121A MAX WQ FLOW RATE 10.10 CFS
DESIGN WQ Q= 7.70 CFS
CURRENT WQ Q = 1.40 CFS

DESIGN IMPERVIOUS = 4.71 AC
PROPOSED IMPERVIOUS = 2.94 AC

WQU-209 Vortechs 16000

Inlet #	Impervious (SF)	Impervious (Ac)	Impervious "C"	Pervious (SF)	Pervious (Ac)	Pervious "C"	Total Area (Ac)	Composite "C"	I (in/hr)	Q=CIA
209A	44,945	1.03	0.99	0	0.00	0.65	1.03	0.99	3.200	3.26
209B	31,800	0.73	0.99	0	0.00	0.65	0.73	0.99	3.200	2.31
209C	7,600	0.17	0.99	0	0.00	0.65	0.17	0.99	3.200	0.54
209D	6,850	0.16	0.99	0	0.00	0.65	0.16	0.99	3.200	0.51
209E	14,832	0.34	0.99	0	0.00	0.65	0.34	0.99	3.200	1.08
		2.43					2.43	0.99		7.70

WQ UNIT 209 MAX WQ FLOW RATE 10.10 CFS
DESIGN WQ Q= 7.70 CFS
CURRENT WQ Q = 1.40 CFS

DESIGN IMPERVIOUS = 2.43 AC
PROPOSED IMPERVIOUS 1.35 AC

WQU-103 Vortechs 16000

Inlet #	Impervious (SF)	Impervious (Ac)	Impervious "C"	Pervious (SF)	Pervious (Ac)	Pervious "C"	Total Area (Ac)	Composite "C"	I (in/hr)	Q=CIA
103A	5,662	0.13	0.99	2,036	0.05	0.65	0.18	0.9	3.200	0.52
103B	3,468	0.08	0.99	8,342	0.19	0.65	0.27	0.75	3.200	0.65
103C	3,935	0.09	0.99	9,230	0.21	0.65	0.30	0.75	3.200	0.72
103D	5,935	0.14	0.99	2,170	0.05	0.65	0.19	0.9	3.200	0.55
103E	0	0.00	0.99	8,895	0.20	0.65	0.20	0.65	3.200	0.42
103F	1,668	0.04	0.99	3,360	0.08	0.65	0.12	0.76	3.200	0.29
103G	2,532	0.06	0.99	1,097	0.03	0.65	0.09	0.88	3.200	0.25
103H	0	0.00	0.99	3,668	0.08	0.65	0.08	0.65	3.200	0.17
103I	2,743	0.06	0.99	0	0.00	0.65	0.06	0.99	3.200	0.19
103J	6,026	0.14	0.99	0	0.00	0.65	0.14	0.99	3.200	0.44
103K	35,793	0.82	0.99	17,704	0.41	0.65	1.23	0.88	3.200	3.46
		1.56					2.86	0.63		7.66

WQ UNIT 103 MAX WQ FLOW RATE 10.10 CFS
DESIGN WQ Q=7.68 CFS
ADDITIONAL WQ Q = 0.44 CFS

DESIGN IMPERVIOUS = 1.50 AC
PROPOSED IMPERVIOUS = 1.67 AC

WQU-201 Vortechs 9000

Inlet #	Impervious (SF)	Impervious (Ac)	Impervious "C"	Pervious (SF)	Pervious (Ac)	Pervious "C"	Total Area (Ac)	Composite "C"	I (in/hr)	Q=CIA
201B	17,931	0.41	0.99	0	0.00	0.65	0.41	0.99	3.200	1.30
201C	17,208	0.40	0.99	0	0.00	0.65	0.40	0.99	3.200	1.27
201D	33,010	0.76	0.99	0	0.00	0.65	0.76	0.99	3.200	2.41
		1.57					1.57	0.99		4.97

WQ UNIT 201 MAX WQ FLOW RATE 4.50 CFS
DESIGN WQ Q=3.90 CFS
ADDITIONAL WQ Q = 1.40 CFS

DESIGN IMPERVIOUS = 1.57 AC
PROPOSED IMPERVIOUS 1.96 AC

WQU-101 Vortechs 7000

Inlet #	Impervious (SF)	Impervious (Ac)	Impervious "C"	Pervious (SF)	Pervious (Ac)	Pervious "C"	Total Area (Ac)	Composite "C"	I (in/hr)	Q=CIA
101A	9,770	0.22	0.99	6,110	0.14	0.65	0.36	0.88	3.200	0.99
101B	5,579	0.13	0.99	3,089	0.07	0.65	0.20	0.87	3.200	0.56
101C	14,321	0.33	0.99	10,368	0.24	0.65	0.57	0.85	3.200	1.55
101D	10,565	0.24	0.99	1,080	0.02	0.65	0.26	0.96	3.200	0.80
		0.92					1.39	0.89		3.95

WQ UNIT 101 MAX WQ FLOW RATE 4.50 CFS
DESIGN WQ Q=3.90 CFS
ADDITIONAL WQ Q = 0.18 cfs

DESIGN IMPERVIOUS = 0.92 AC
PROPOSED IMPERVIOUS = 0.99 AC.

Revised 5/1/2015

PROPOSED WQ UNITS (ECOSTREAM) MTD4 AND MTD5

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Vice President

5/15/2015

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HOLTEC TECHNOLOGY CENTER
BLOCK 457 - LOT 1
BLOCKS 515 AND 515
CITY OF CAMDEN, NEW JERSEY
INLET DRAINAGE EXHIBIT

DESIGNED BY	KRH
PROJECT NO.	HLTC00010
CHECKED BY	ERL
DATE	2/17/2015
DRAWN BY	KRH
SCALE	1" =100'
DRAWING	

EXHIBIT 1

SHEET 1 OF 1

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