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TOWN OF NEWBURGH
PLANNING BOARD
TECHNICAL REVIEW COMMENTS

PROJECT:	**OVERLOOK FARMS A FARRELL COMMUNITY (Hudson Place)**
PROJECT NO.:	**19-23**
PROJECT LOCATION:	**SECTION 9, BLOCK 1, LOT 10, 11, 12, 56.21, 56.22**
REVIEW DATE:	**9 JULY 2021**
MEETING DATE:	**15 JULY 2021**
PROJECT REPRESENTATIVE:	**JMC ENGINEERING**

1. The project proposes to alter the existing floodplain on the site and relocate the stream. A floodplain report has been submitted by a floodplain consultant. A Floodplain Development Permit will be required. This permit is under the jurisdiction of the Building Department. The SEQRA review by the Planning Board as Lead Agency, must address this impact.

2. The hydraulic model provided for the Floodplain Development Permit identifies all access to the site being impacted by a 100-year storm event, and identified that fire apparatus should be able to traverse the flooding of the access roads.

3. The floodplain report and SWPPP should be coordinated to ensure that Section 109-15b Encroachments is complied with. Overtopping of the roads identifies in the report continues to be a concern.

4. The mailbox/bus stop area has been moved interior to the site. This is a result of a meeting with the Marlborough School District. The Marlborough School District advised they prefer not to pick up students and have buses stop on NYS Route 9W. The revised pickup area/gazebo has been coordinated with the Marlborough School District.

5. Demolition permits are required prior to demolition of any structures on the site. Notes requiring a Demolition Permit must be added to the plans.

6. An extensive SWPPP (585 pages plus appendices) is under review by this office.

7. A 5-acre waiver is apparently being requested. The applicant's representative is requested to provide documentation as to the need for the waiver. The amount of land to be disturbed at any one time should be addressed on the plans and the SWPPP. Erosion and sediment control and construction phasing should be addressed in compliance with applicable stormwater regulations.

8. The applicant's representatives are requested to evaluate the impacts of the Stormwater Management Plan on the hydraulic analysis for the floodplain impacts. Peak flows and times of discharge from the site should be evaluated in the floodplain analysis. Compliance with Section 109 of the Town Code must be documented.

9. Watermain extension design reports must be submitted. Coordination with the water department and Town engineer's office will be required.

10. Sewage treatment plant design reports and plans will be required. Discharge limits should be provided. Discharge should be evaluated during flood conditions identified in the Floodplain Impact Report.

11. Hydrant locations should be coordinated with the Code Department and jurisdictional fire department.

12. Notes on the plans identifying onsite rock crushing is permitted. The amount of material to be blasted should be identified for review of environmental impacts. The amount of material to be processed on site should be provided to identify potential impacts. The use of portable crushers that can crush in excess of 125/tph requires air discharge permits from the NYSDEC. This should be further addressed.

13. The narrative report identifies 0.3-acres of wetland disturbance proposed. Status of the jurisdictional determination of the wetlands permits or mitigation should be addressed.

14. The applicants should confirm that the parking and landscaping comply with Section 185-13(9).

15. The utility plan must depict water services to the retail, clubhouse and STP structures to meet Town requirements. The fire and potable lines setup determine potable water if the fire service line is shut off.

16. Confirm that all stormwater basins are proposed to be fenced.

17. EMS Sheet C-400 Note #9 must address seeding for sites which disturb greater than 5-acres. Seven (7) days max stabilization. Note states fourteen (14) days.

18. Water service detail #38 identifies 1-inch service lines, the plans show 2-inch service lines to the residential structures.

19. A lighting plan should be provided for the Planning Board's use and submission to County Planning.

20. A Lot Consolidation Plan must be filed prior to any approvals.

21. A Construction Phasing Plan should be developed in conjunction with the SWPPP for the site.

22. Orange County Planning submission is required.

23. The applicant's representative should update the Planning Board on status of the NYSDOT approvals. Applicant should address how the traffic will function, should the NYSDOT not permit a traffic light at the entrance drive.

24. Stormwater Facilities Maintenance Agreement will be required to be filed.

Respectfully submitted,

McGoey, Hauser and Edsall
Consulting Engineers, D.P.C.

Patrick J. Hines
Principal

PJH/dns

Site Planning
Civil Engineering
Landscape Architecture
Land Surveying
Transportation Engineering
Environmental Studies
Entitlements
Construction Services
3D Visualization
Laser Scanning

June 22, 2021

Chairman John Ewasutyn
Town of Newburgh Planning Board
21 Hudson Valley Professional Plaza
Newburgh, NY 12550

RE: JMC Project 17088
Overlook Farms a Farrell Community
5417 Route 9W
Town of Newburgh, NY

Site Plan/Lot Consolidation Submission

Dear Chairman Ewasutyn and Members of the Board:

On behalf of Farrell Communities at Overlook Ponds LLC, the Applicant for the above referenced project, we are pleased to submit the below listed documents in support of an application for Site Plan and Lot Consolidation Approval. As requested, we are providing 10 copies of the Layout Plan to the Board as well as a full digital submission.

1. JMC Drawings, last revised 6/22/2021:

Dwg. No.	Title
C-000	"Cover Sheet"
C-010	"Existing Conditions Plan"
C-011	"Lot Consolidation & Subdivision Plan"
C-020	"Environmental Constraints Plan"
C-100	"Layout Plan"
C-200	"Grading Plan"
C-300	"Utilities Plan"
C-310	"Storm Sewer Profiles"
C-311	"Storm Sewer Profiles"
C-320	"Sanitary Sewer Profiles"
C-330	"Water Main Profiles"
C-331	"Water Main Profiles"
C-400	"Erosion & Sediment Control Plan"
C-500	"Fire Truck Access Plan"
C-510	"Truck Routing Plan"
C-520	"Sight Distance Analysis Plan"
C-900	"Construction Details"
C-901	"Construction Details"
C-902	"Construction Details"

C-903	“Construction Details”
C-904	“Construction Details”
C-905	“Construction Details”
C-906	“Construction Details”
L-100	“Preliminary Landscape Plan”
L-101	“Preliminary Landscape Plan”
L-102	“Preliminary Typical Unit Landscape Plan”

2. JMC Preliminary Stormwater Pollution Prevention Plan, dated 6/22/2021

3. Leonard Jackson Associates Report – Overlook Farm Hydrologic and Hydraulic Analyses Tributary to Lattintown Creek, dated 6/22/2021

4. Town of Newburgh Floodplain Development Permit Application, dated 06/14/2021

5. Farrell Building Company Check No. 61997 in the amount of $500.00, dated 5/19/2021 to cover the Floodplain Development Permit Application fee

The enclosed documents are provided in response to comments received from your Board and its consultants. Specifically, we are in receipt of the below listed comment letters from your consultants and are pleased to provide responses below:

1. Letter from Creighton Manning, dated 3/26/2021
2. Memorandum from MH&E, DPC, dated 4/21/2021

Creighton Manning Letter, dated March 26, 2021

Comment No. 1

Sight distance triangles have been shown at the internal driveways where necessary and landscaping has been modified as needed.

Response No. 1

Comment noted.

Comment No. 2

The traffic study removed the 5430 Route 9W project since that is still a conceptual project and has not made an application. Even with this removal, the improvements proposed remain unchanged; Route 9W will be widened to provide a northbound left turn lane and a southbound right turn lane into the Route 9W/Site Driveway A intersection.

Response No. 2

Comment noted.

Comment No. 3

A signal warrant analysis was provided demonstrating the need for the signal. NYSDOT review and approval is necessary for these improvements. The highway and traffic signal designs should not inhibit future improvements by others (5430 Route 9W) to create a fourth leg to the site driveway intersection.

Response No. 3

The NYSDOT will be determining after a subsequent review if a new traffic signal is approved for the proposed site driveway entrance. If a new traffic signal is approved for the proposed site driveway connection onto Route 9W, the proposed traffic signal design will be coordinated to accommodate a potential fourth leg to the intersection opposite the proposed site driveway.

Comment No. 4

The delays at signalized intersections on the corridor will change by 5 seconds or less during the peak hours. Unsignalized intersections will change by 5 to 17 seconds of delay. Increases in delays as unsignalized intersections are harder to mitigate because they don't warrant traffic signals and would otherwise only improve if Route 9W were widened with a center turn lane.

Response No. 4

As stated in the comment, improvements at unsignalized intersections are difficult since they don't warrant traffic signals. The NYSDOT has jurisdiction of Route 9W and we are continuing to work with them to receive a Highway Work Permit for the proposed redevelopment. The NYSDOT was provided the 03/19/2021 Traffic Study for the redevelopment.

Comment No. 5

A comparison of the traffic volumes for existing, no-build, and build at the Oak Street intersection during the PM peak hour indicates that volumes will increase by about 19% over the next 5 to 6 years – 12% from background growth and other developments, 7% from the project. The Town should discuss long-term planning with NYSDOT to determine if there are long-term improvement plans that should be considered when reviewing present applications in the corridor.

Response No. 5

Comment noted.

Comment No. 6

Has there been any correspondence with NYSDOT on this project to date?

Response No. 6

Our office submitted Stage 1 of the Highway Work Permit to the NYSDOT on 03/19/2021. Our office received comments from the NYSDOT regarding their review of our submission via email on 04/27/2021. We intend to submit a package to NYSDOT soon responding to the comments contained in their 04/27/2021 email.

McGoey, Hauser and Edsall Consulting Engineers, D.P.C. Letter, dated April 1, 2021

Comment No. 1

This office circulated the Planning Board's Notice of Intent for Lead Agency on 3 February 2021. With the exception of the Marlborough Central School District no other correspondence has been received back to this office. Marlborough Central School District has requested a meeting with this office regarding the project. Planning Board is in a position to declare itself Lead Agency for the environmental review of the project.

Response No. 1

Our office has met and coordinated with Superintendent Michael Brooks of the Marlborough Central School District. We have informed Superintendent Brooks that the project is anticipated to generate approximately 23 school age children. We also provided a location for school bus pick-up within the site, as preferred by the school district, rather than along Route 9W as previously proposed.

Comment No. 2

This office awaits the submission of an SWPPP and Stormwater Management Plan in compliance with Town of Newburgh and NYSDEC requirements.

Response No. 2

The project Stormwater Pollution Prevention Plan is enclosed.

Comment No. 3

The project requires a Flood Plain Development Permit information pertaining to the flood plain impacts is identified as being under preparation by the Applicants representative.

Response No. 3

A Floodplain Development Permit Application and Hydrologic and Hydraulic Analyses are enclosed.

Comment No. 4

Design reports for the water main extension with hydrants and Sewage Treatment Plant should be provided to the Planning Board.

Response No. 4

We are working on the water main extension design reports and H2M is working on the design and permitting for the Sewage Treatment Plant. These documents will be provided to your Board upon completion.

Comment No. 5

It is requested that all materials being sent to outside agencies be copied to the Planning Board for their file.

Response No. 5

So noted.

Comment No. 6

Check grading in the vicinity of DMH-C-5. Specifically the 492 contour.

Response No. 6

The top elevation of DMH-C-5 was adjusted to 288.75 to better match the emergency access drive surface elevation.

Comment No. 7

Grading in the vicinity of DMH-D-4 should be evaluated for potential impacts to adjoining properties.

Response No. 7

DMH-D-4 was relocated down the hill. The grading in the vicinity of the previous location of DMH-D-4, on the north side of Building 3, was revised to reduce potential impacts on the adjoining property.

Comment No. 8

Location of hydrants should be reviewed with the Code Enforcement Department as well as Jurisdictional Fire Department.

Response No. 8

It is agreed that the location of hydrants will be reviewed with the Code Enforcement Department and the Jurisdictional Fire Department.

Comment No. 9

Highway Superintendents comments on the Morris Drive emergency access drive should be received.

Response No. 9

Comment noted.

Comment No. 10

A Restraint Joint Table should be added to the Detail Sheet in compliance with the Town of Newburgh's requirements.

Response No. 10

A Restraint Joint Table has been added to JMC Drawing C-300 "Utilities Plan".

Comment No. 11

Water service connections to the proposed retail building, sewage treatment building and clubhouse should be depicted.

Response No. 11

JMC Drawing C-300 "Utilities Plan" has been revised to depict water service connections to the proposed retail building, sewage treatment building and clubhouse.

Comment No. 12

Standard detail requiring potable water to be shut off if fire lines are terminated at the structure.

Response No. 12

A detail requiring potable water to be shut off if the fire lines are terminated at the structure has been added to JMC Drawing C-903 "Construction Details.

We understand this matter will be placed on the agenda for the July 15, 2021 Planning Board meeting. In the interim, please let us know if you have any questions or require additional information.

Sincerely,

JMC Planning Engineering Landscape Architecture & Land Surveying, PLLC

Anthony Guccione, Jr.

Anthony Guccione, Jr., RLA
Associate Principal

cc: Mr. Patrick Hines, w/Plans, PSWPPP, Floodplain Docs
Mr. Ken Wersted, PE, via email
Mr. Dominic Cordisco, via email
Mr. Stephen Zagoren, via email
Mr. Will Minnear, via email
Mr. Peter Gaito, Jr., via email
Stan Schutzman, Esq., via email
Mr. Leonard Jackson, PE, via email

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Applicant/Owner:
FARRELL COMMUNITIES AT OVERLOOK PONDS LLC
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BRIDGEHAMPTON, NY 11932
(631) 537-1068

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(845) 600-8529

Architect
PETER F. GAITO & ASSOCIATES
102 WALLER AVENUE
WHITE PLAINS, NY 10605
(914) 682-3381

Site Planner, Civil & Traffic Engineer, Surveyor and Landscape Architect:
120 BEDFORD ROAD
ARMONK, NY 10504
(914) 273-5225

PRELIMINARY SITE PLAN APPROVAL DRAWINGS

OVERLOOK FARMS A FARRELL COMMUNITY

TAX MAP SECTION 09 | BLOCK 01 | LOTS 10, 11, 12, 56.21, 56.22

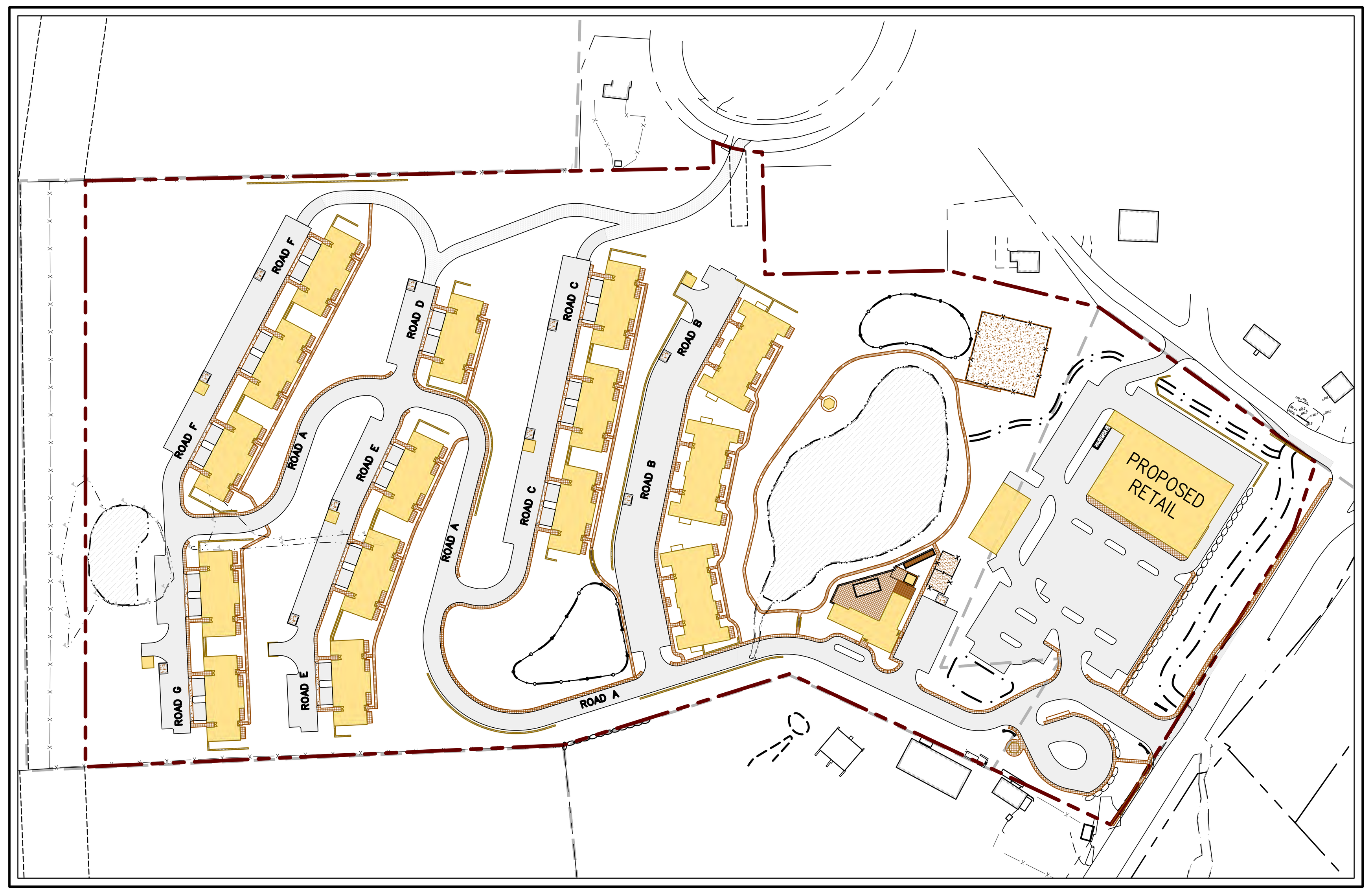
ORANGE COUNTY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

JMC Drawing List:

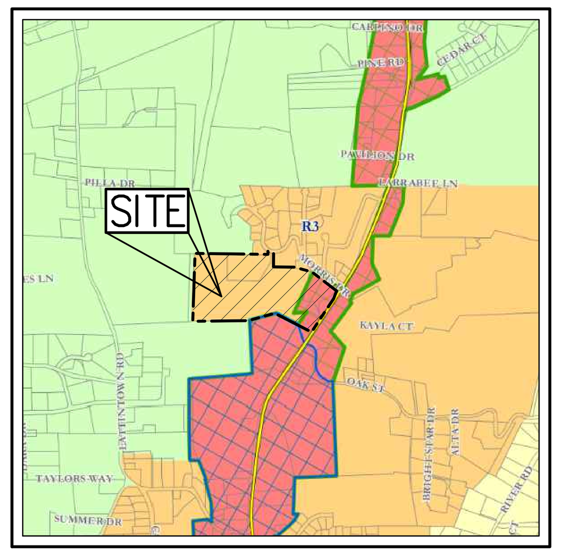
PETER F. GAITO & ASSOCIATES Drawing List:

GENERAL CONSTRUCTION NOTES APPLY TO ALL WORK HEREIN:

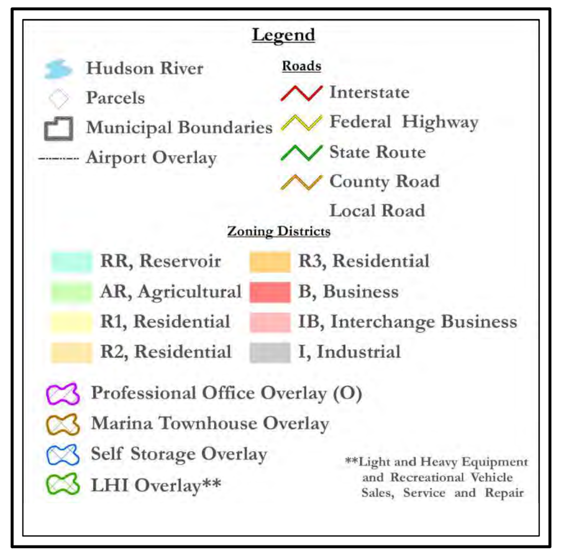
1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CALL 811 "DIG SAFELY" (1-800-962-7962) TO HAVE UNDERGROUND UTILITIES LOCATED INCLUDING ARRANGING FOR A PRIVATE MARKOUT ON-SITE WHERE APPLICABLE. EXPLORATORY EXCAVATIONS SHALL COMPLY WITH CODE 753 REQUIREMENTS. NO WORK SHALL COMMENCE UNTIL ALL THE OPERATORS HAVE NOTIFIED THE CONTRACTOR THAT THEIR UTILITIES HAVE BEEN LOCATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION, INSOFAR AS THEY MAY BE ENDANGERED BY THE CONTRACTOR'S OPERATIONS. THIS SHALL HOLD TRUE WHETHER OR NOT THEY ARE SHOWN ON THE CONTRACT DRAWINGS. IF THEY ARE SHOWN ON THE DRAWINGS, THEIR LOCATIONS ARE NOT GUARANTEED EVEN THOUGH THE INFORMATION WAS OBTAINED FROM THE BEST AVAILABLE SOURCES, AND IN ANY EVENT, OTHER UTILITIES ON THESE PLANS MAY BE ENCOUNTERED IN THE FIELD. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, IMMEDIATELY REPAIR OR REPLACE ANY STRUCTURES OR UTILITIES THAT HE DAMAGES, AND SHALL CONSTANTLY PROCEED WITH CAUTION TO PREVENT UNDUE INTERRUPTION OF UTILITY SERVICE.
2. CONTRACTOR SHALL HAND DIG TEST PITS TO VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL VERIFY EXISTING UTILITIES DEPTHS AND ADVISE OF ANY CONFLICTS WITH PROPOSED UTILITIES. IF CONFLICTS ARE PRESENT. THE OWNER'S FIELD REPRESENTATIVE, JMC, PLLC AND THE APPLICABLE MUNICIPALITY OR AGENCY SHALL BE NOTIFIED IN WRITING. THE EXISTING/PROPOSED UTILITIES RELOCATION SHALL BE DESIGNED BY JMC, PLLC.
3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY AND ALL LOCAL PERMITS REQUIRED.
4. ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, AND REGULATIONS. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL SAFETY CODES. APPLICABLE SAFETY CODES MEAN THE LATEST EDITION INCLUDING ANY AND ALL AMENDMENTS, REVISIONS, AND ADDITIONS THERETO, TO THE FEDERAL DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S OCCUPATIONAL SAFETY AND HEALTH STANDARDS (OSHA); AND APPLICABLE SAFETY, HEALTH REGULATIONS AND BUILDING CODES FOR CONSTRUCTION IN THE STATE OF NEW YORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GUARDING AND PROTECTING ALL OPEN EXCAVATIONS IN ACCORDANCE WITH THE PROVISION OF SECTION 107-05 (SAFETY AND HEALTH REQUIREMENTS) OF THE NYSDOT STANDARD SPECIFICATIONS. IF THE CONTRACTOR PERFORMS ANY HAZARDOUS CONSTRUCTION PRACTICES, ALL OPERATIONS IN THE AFFECTED AREA SHALL BE DISCONTINUED AND IMMEDIATE ACTION SHALL BE TAKEN TO CORRECT THE SITUATION TO THE SATISFACTION OF THE APPROVAL AUTHORITY HAVING JURISDICTION.
5. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AFFECTED BY THE SCOPE OF WORK SHOWN HEREON AT ALL TIMES TO THE SATISFACTION OF THE OWNERS REPRESENTATIVE. RAMPING CONSTRUCTION TO PROVIDE ACCESS MAY BE CONSTRUCTED WITH SUBBASE MATERIAL EXCEPT THAT TEMPORARY ASPHALT CONCRETE SHALL BE PLACED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE PEDESTRIAN ACCESS AT ALL TIMES.
6. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING PAVEMENT TO REMAIN.
7. THE CONTRACTOR SHALL OBTAIN A DEMOLITION PERMIT FROM THE TOWN OF NEWBURGH CODE ENFORCEMENT DEPARTMENT PRIOR TO DEMOLITION OF THE EXISTING ON-SITE STRUCTURES AND/OR ANY DEMOLITION ACTIVITIES.
8. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SURVEY THE CLEARING AND GRADING LIMIT LINE, WHICH SHALL BE CLEARLY DELINEATED IN THE FIELD WITH THE USE OF ORANGE CONSTRUCTION OR CHAIN LINK FENCE. THE DELINEATED LIMITS SHALL BE SUBJECT TO THE REVIEW OF THE TOWN ENGINEER AND SHALL REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION. NO ENCROACHMENT BEYOND THESE LIMITS SHALL BE PERMITTED BY WORKERS AND/OR MACHINERY UNLESS OTHERWISE APPROVED BY THE TOWN ENGINEER.
9. THE CONTRACTOR IS INFORMED THAT BLASTING AND CHIPPING ARE PERMITTED FOR THE EXCAVATION OF ROCK. SHOULD THE CONTRACTOR ELECT TO USE BLASTING, THEY SHALL BE REQUIRED TO FOLLOW THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AND OBTAIN A PERMIT FROM THE TOWN OF NEWBURGH, AS WELL AS FOLLOW ALL REGULATIONS AS OUTLINED IN CHAPTER 66 "BLASTING" OF THE TOWN OF NEWBURGH TOWN CODE.THE CONTRACTOR IS FURTHER INFORMED THAT THE TOWN CODE PERMITS BLASTING MONDAY THROUGH SATURDAY, BETWEEN THE HOURS OF 8 AM AND 7 PM.
10. THE CONTRACTOR IS INFORMED THAT CRUSHING OF THE ON SITE ROCK IS PERMITTED. HOWEVER, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED TOWN PERMITS, AS WELL AS ANY PERMIT AND/OR APPROVALS REQUIRED FROM ANY OTHER LOCAL, STATE. AND/OR FEDERAL AGENCY.



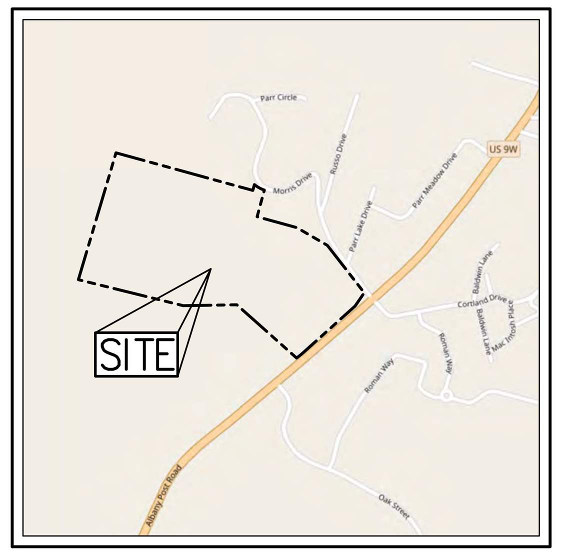
SITE PLAN
SCALE: 1"=130'



ZONING MAP
SCALE: NTS
SOURCE: TOWN OF NEWBURGH
ORANGE COUNTY, NEW YORK
OFFICIAL ZONING MAP
LAST AMENDMENT ADOPTED 11 JUNE 2012



ZONING MAP LEGEND



VICINITY MAP
SCALE: NTS
SOURCE: OPENSTREETMAP.ORG

TABLE OF LAND USE				
TAX PARCELS: SECTION 09, BLOCK 01, LOTS 10, 11, 12, 56.21 AND 56.22 TOTAL LOT AREA = 32.71 ACRES				
ZONE DISTRICTS: "R-3" - RESIDENCE DISTRICT				
PROPOSED USES: MULTI-FAMILY DEVELOPMENT				
DESCRIPTION		REQUIREMENT	EXISTING	PROPOSED
MINIMUM LOT AREA	(ACRE)	4	32.71	27.31 (1)
MINIMUM LOT WIDTH	(FEET)	150	655±	655±
MINIMUM LOT DEPTH	(FEET)	150	1,800±	1,800±
MAXIMUM BUILDING HEIGHT	(STORIES/FEET)	35	2 STORIES	30
MAXIMUM BUILDING COVERAGE	(%)	35	0.2±	10±
MAXIMUM IMPERVIOUS COVERAGE	(%)	60	6±	34±
MINIMUM BUILDING SETBACKS				
FRONT YARD	(FEET)	60 (2)	35	429
SIDE YARD	(FEET)	30	533	30
REAR YARD	(FEET)	50	135	174
BUILDING SUMMARY				
MAXIMUM NUMBER OF UNITS		203 (4)	-	203
REAR WALL TO ADJACENT BUILDING SEPARATION	(FEET)	75	-	112
SIDE TO SIDE BUILDING SEPARATION	(FEET)	30	-	30
HABITABLE FLOOR AREA PER UNIT	(SQ.FT.)	1-BEDROOM 600 2-BEDROOM 800	-	1-BEDROOM 600 2-BEDROOM 800
HABITABLE FLOOR AREA PER SENIOR UNIT	(SQ.FT.)	1,000 MAX SEC 185.48 B (4)	-	≤ 1,000
PARKING SPACES				
STANDARD PARKING SPACES	(SPACES)	397	-	402
ACCESSIBLE PARKING SPACES	(SPACES)	9	-	30
TOTAL PARKING SPACES	(SPACES)	406 (2 PER UNIT)	-	432
ZONE DISTRICTS: "B" - BUSINESS DISTRICT				
PROPOSED USES: RETAIL				
DESCRIPTION		REQUIREMENT	EXISTING	PROPOSED
MINIMUM LOT AREA	(SF/ACRE)	15,000/0.34	32.71	5.40 (1)
MINIMUM LOT WIDTH	(FEET)	100	655±	700±
MINIMUM LOT DEPTH	(FEET)	125	1,800±	1,800±
MAXIMUM BUILDING HEIGHT	(STORIES/FEET)	40	2 STORIES	30
MAXIMUM BUILDING COVERAGE	(%)	35	4±	11±
MAXIMUM IMPERVIOUS COVERAGE	(%)	80	6±	60±
MINIMUM BUILDING SETBACKS				
FRONT YARD	(FEET)	60 (2)	35	109
SIDE YARD	(FEET)	15 MIN/30 TOTAL (3)	52/180±	102/403
REAR YARD	(FEET)	30	533	1500+
PARKING SPACES				
STANDARD PARKING SPACES	(SPACES)	161	-	161
ACCESSIBLE PARKING SPACES	(SPACES)	6	-	6
TOTAL PARKING SPACES	(SPACES)	1 PER 150 SF (167)	-	167

NOTES:

(1) TOTAL LOT AREA IS 32.71 ACRES. 27.31 ACRES LIES WITHIN THE R-3 ZONE AND 5.40 ACRES LIES WITHIN THE B ZONE.
(2) SECTION 185-18 - EXCEPTIONS TO DISTRICT REGULATIONS (4)(b) REQUIRES FRONT YARDS ABUTTING ALL STATE AND COUNTY HIGHWAYS BE AT LEAST 60 FEET IN DEPTH.
(3) SECTION 185-18 - EXCEPTIONS TO DISTRICT REGULATIONS (5)(a) REQUIRES COMMERCIAL USES ABUTTING A SIDE YARD AND BUILDING SQUARE FOOTAGE LESS THAN 30,000, MINIMUM SIDE YARD IS 25 FEET.
(4) SEE RESIDENTIAL UNIT DENSITY CALCULATIONS ON THIS SHEET.

RESIDENTIAL UNIT DENSITY CALCULATIONS:

RESIDENTIAL LOT AREA FOR DENSITY DETERMINATION = 27.31 ACRES
EXCLUDES B-ZONE AREA (5.40 ACRE)

1. BASE DENSITY CALCULATIONS

SENIOR HOUSING DEVELOPMENT DENSITY = 9 DWELLING UNITS PER ACRE

1/3 OF THE TOTAL NUMBER OF PROPOSED UNITS ARE GAINED DUE TO THE SENIOR HOUSING DEVELOPMENT PROVISION.
1/3 OF THE TOTAL NUMBER OF UNITS GAINED MUST BE SENIOR HOUSING.
THEREFORE: 1/3 OF THE TOTAL UNITS X 1/3 MUST BE SENIOR HOUSING =1/9 OF THE TOTAL UNITS MUST BE SENIOR HOUSING OR 11%

2. NET PARCEL AREA CALCULATIONS*

A. FEDERAL WETLANDS, STEEP SLOPES AND WATERBODIES (POND) (75% DEDUCTED FOR SENIOR HOUSING):
0.58 ACRES OF FEDERAL WETLANDS + 2.78 ACRES OF STEEP SLOPES + 1.45 ACRES POND = **4.81 ACRES**
B. 100 YEAR FLOODPLAIN (100% DEDUCTED FOR ALL USES):
0 ACRES OF 100 YEAR FLOODPLAIN.

11% OF 4.81 IS SUBTRACTED AT A RATE OF 75% = (0.11)(4.81)(0.75) = 0.40 AC.
89% OF 4.81 IS SUBTRACTED AT A RATE OF 100% = (0.89)(4.81)(1.00) = 4.28 AC.
TOTAL AREA CONSIDERED NOT USABLE NET AREA CALC = 0.40+4.28 = **4.68 AC.**

THEREFORE: 27.31 AC.-4.68 AC. = **22.63 AC.** (NET PARCEL AREA)
22.63 AC. X 9 UNITS = **203 UNITS PERMITTED** (203 PROPOSED)
203 UNITS / 9 = **23 SENIOR UNITS REQUIRED** (23 PROPOSED)

*TAKEN FROM ZONING CODE ORDINANCE SECTION 185-48.5 C.

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

SUBSURFACE UTILITY LOCATIONS ARE BASED ON A COMPILATION OF FIELD EVIDENCE, AVAILABLE RECORD PLANS AND/OR UTILITY MARK-OUTS. THE LOCATION OR COMPLETENESS OF UNDERGROUND INFORMATION CANNOT BE GUARANTEED. VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION OR CONSTRUCTION.

811 Know what's below. Call before you dig.

No.	Revision	Date	By
1.	REVISED PER TOWN COMMENTS	12/09/2020	BMS
2.	PLANNING BOARD SUBMISSION	03/19/2021	BMS
3.	PLANNING BOARD SUBMISSION	06/22/2021	BMS

Previous Editions Obsolete

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
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Drawn:	BMS	Approved:	JS
Scale:	NOT TO SCALE		
Date:	10/23/2019		
Project No:	17088		
17088-SITE	COVER	COVER.scr	
Drawing No:	C-000		

LEGEND

- EXISTING PROPERTY LINE
- ADJACENT PROPERTY LINE
- EXISTING EASEMENT LINE
- APPROXIMATE ZONE BOUNDARY
- EXISTING WETLAND LINE AND DELINEATION (WLF-63, WLF-64, WLF-65)
- EXISTING BUILDING OVERHANG
- EXISTING BUILDING LINE
- EXISTING PAVEMENT EDGE
- EXISTING CURB LINE
- EXISTING CONTOUR (172)
- EXISTING INDEX CONTOUR (170)
- EXISTING STONE WALL
- EXISTING RETAINING WALL
- EXISTING GUIDE RAIL
- EXISTING FENCE
- EXISTING TREE AND DESIGNATION (T10 M)
- EXISTING TREE LINE
- EXISTING DIRECTIONAL ARROWS
- EXISTING PAINT
- EXISTING PARKING WITH NUMBER OF SPACES (5)
- EXISTING ACCESSIBLE PARKING WITH NUMBER OF SPACES (2H)
- EXISTING PEDESTRIAN CROSSING
- EXISTING STORM DRAIN LINE AND SIZE (36" RCP)
- EXISTING SANITARY LINE AND SIZE (8" SAN)
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING OVERHEAD WIRES
- EXISTING DRAIN INLET
- EXISTING MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING GAS VALVE (GV)
- EXISTING WATER VALVE (WV)
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING SIGN
- BORING LOCATION AND DESIGNATION (B-1)

NOTES:

1. EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "SURVEY OF PROPERTY," PREPARED BY JMC, LAST REVISED 11/19/2020.
2. GEOTECHNICAL BORING/TEST PIT LOCATIONS DEPICTED ON THIS PLAN WERE TAKEN FROM THE GEOTECHNICAL REPORT ENTITLED, "REPORT ON SUBSURFACE SOIL AND FOUNDATION INVESTIGATION", DATED 01/18/2021, PREPARED BY CARLIN SIMPSON & ASSOCIATES.

No.	Revision	Date	By
1.	REVISED PER TOWN COMMENTS	12/09/2020	BMS
2.	PLANNING BOARD SUBMISSION	03/19/2021	BMS
3.	PLANNING BOARD SUBMISSION	06/22/2021	BMS

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APPLICANT:
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ARCHITECT:
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JMC

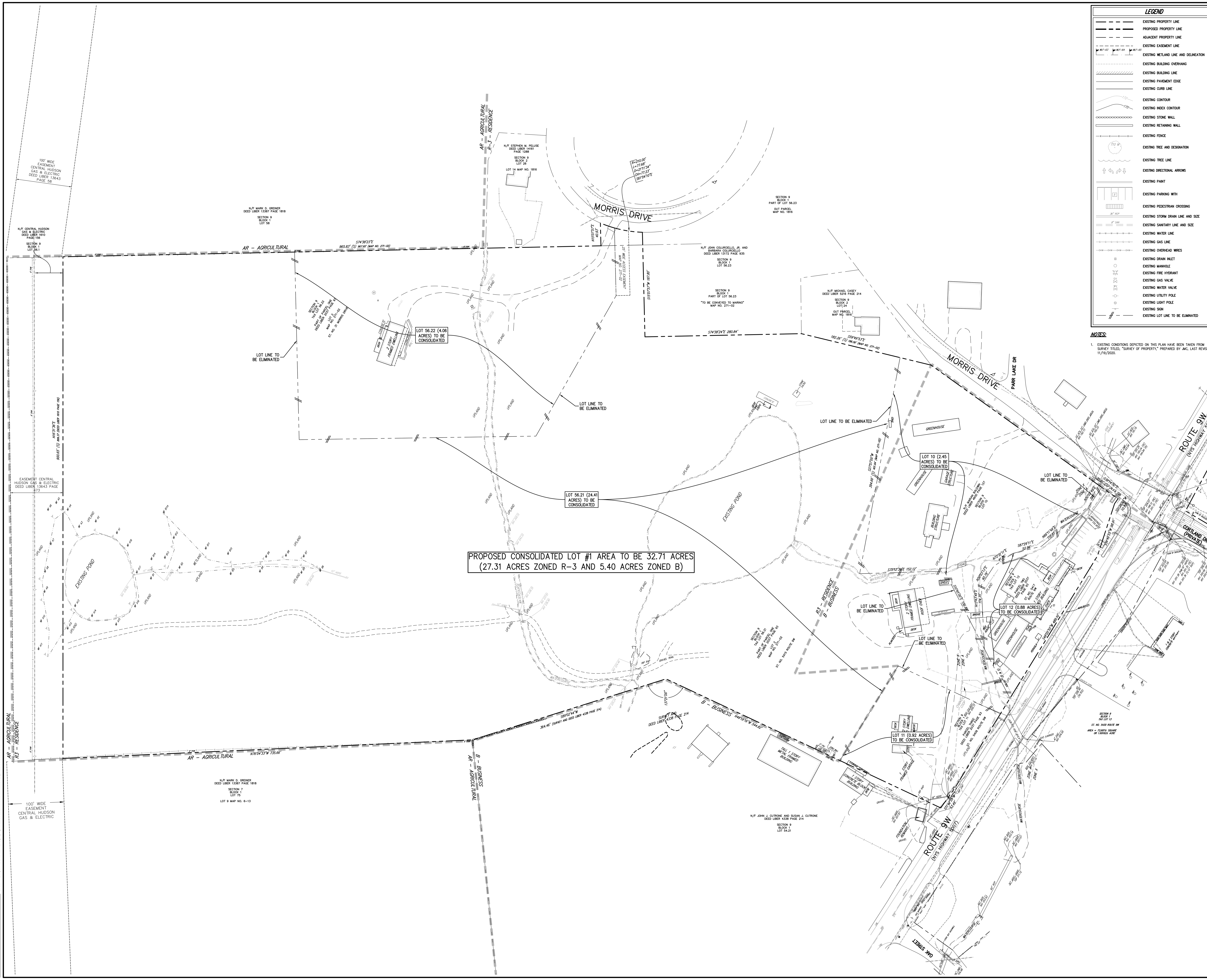
EXISTING CONDITIONS PLAN

OVERLOOK FARMS A FARRELL COMMUNITY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

Drawn: BMS		Approved: JS	
Scale: 1" = 50'			
Date: 10/23/2019			
Project No: 17088			
17088-SITE	EXIST	EXIST.scr	

Drawing No:
C-010

NOT FOR CONSTRUCTION



LEGEND

- EXISTING PROPERTY LINE
- PROPOSED PROPERTY LINE
- ADJACENT PROPERTY LINE
- EXISTING EASEMENT LINE
- EXISTING WETLAND LINE AND DELINEATION
- EXISTING BUILDING OVERHANG
- EXISTING BUILDING LINE
- EXISTING PAVEMENT EDGE
- EXISTING CURB LINE
- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- EXISTING STONE WALL
- EXISTING RETAINING WALL
- EXISTING FENCE
- EXISTING TREE AND DESIGNATION
- EXISTING TREE LINE
- EXISTING DIRECTIONAL ARROWS
- EXISTING PAINT
- EXISTING PARKING WITH
- EXISTING PEDESTRIAN CROSSING
- EXISTING STORM DRAIN LINE AND SIZE
- EXISTING SANITARY LINE AND SIZE
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING OVERHEAD WIRES
- EXISTING DRAIN INLET
- EXISTING MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING GAS VALVE
- EXISTING WATER VALVE
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING SIGN
- EXISTING LOT LINE TO BE ELIMINATED

NOTES:

1. EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "SURVEY OF PROPERTY," PREPARED BY JMC, LAST REVISED 11/19/2020.

No.	Revision	Date	By
1.	REVISED PER TOWN COMMENTS	12/09/2020	BMS
2.	PLANNING BOARD SUBMISSION	03/19/2021	BMS
3.	PLANNING BOARD SUBMISSION	06/22/2021	BMS

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LOT CONSOLIDATION & SUBDIVISION PLAN

OVERLOOK FARMS A FARRELL COMMUNITY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

Drawn:	BMS	Approved:	JS
Scale:	1" = 50'		
Date:	10/23/2019		
Project No:	17088		
17088-SITE	LOT	LOT.scr	

Drawing No: C-011

ENVIRONMENTAL CONSTRAINTS LEGEND

- POND AREA
- FEDERAL WETLAND AREA
- 100% USABLE AREA IN R3 ZONE
- STEEP SLOPES AREAS (> 25% SLOPE)

RESIDENTIAL UNIT DENSITY CALCULATIONS:

RESIDENTIAL LOT AREA FOR DENSITY DETERMINATION = 27.31 ACRES
EXCLUDES B–ZONE AREA (5.40 ACRE)

1. BASE DENSITY CALCULATIONS

   SENIOR HOUSING DEVELOPMENT DENSITY = 9 DWELLING UNITS PER ACRE

   1/3 OF THE TOTAL NUMBER OF PROPOSED UNITS ARE GAINED DUE TO THE SENIOR HOUSING DEVELOPMENT PROVISION.
   1/3 OF THE TOTAL NUMBER OF UNITS GAINED MUST BE SENIOR HOUSING.
   THEREFORE: 1/3 OF THE TOTAL UNITS X 1/3 MUST BE SENIOR HOUSING =1/9 OF THE TOTAL UNITS MUST BE SENIOR HOUSING OR 11%

2. NET PARCEL AREA CALCULATIONS*

   A. FEDERAL WETLANDS, STEEP SLOPES AND WATERBODIES (POND) (75% DEDUCTED FOR SENIOR HOUSING):
   0.58 ACRES OF FEDERAL WETLANDS + 2.78 ACRES OF STEEP SLOPES + 1.45 ACRES POND = **4.81 ACRES**

   B. 100 YEAR FLOODPLAIN (100% DEDUCTED FOR ALL USES):
   0 ACRES OF 100 YEAR FLOODPLAIN.

   11% OF 4.81 IS SUBTRACTED AT A RATE OF 75% = (0.11)(4.81)(0.75) = 0.40 AC.
   89% OF 4.81 IS SUBTRACTED AT A RATE OF 100% = (0.89)(4.81)(1.00) = 4.28 AC.
   TOTAL AREA CONSIDERED NOT USABLE NET AREA CALC = 0.40+4.28 = **4.68 AC.**

   THEREFORE: 27.31 AC.–4.68 AC. = **22.63 AC.** (NET PARCEL AREA)
   22.63 AC. X 9 UNITS = **203 UNITS PERMITTED** (203 PROPOSED)
   203 UNITS / 9 = **23 SENIOR UNITS REQUIRED** (23 PROPOSED)

*TAKEN FROM ZONING CODE ORDINANCE SECTION 185–48.5 C.

LEGEND

- EXISTING PROPERTY LINE
- ADJACENT PROPERTY LINE
- EXISTING EASEMENT LINE
- APPROXIMATE ZONE BOUNDARY
- EXISTING WETLAND LINE AND DELINEATION
- EXISTING BUILDING OVERHANG
- EXISTING BUILDING LINE
- EXISTING PAVEMENT EDGE
- EXISTING CURB LINE
- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- EXISTING STONE WALL
- EXISTING RETAINING WALL
- EXISTING GUIDE RAIL
- EXISTING FENCE
- EXISTING TREE AND DESIGNATION
- EXISTING TREE LINE
- EXISTING DIRECTIONAL ARROWS
- EXISTING PAINT
- EXISTING PARKING WITH NUMBER OF SPACES
- EXISTING ACCESSIBLE PARKING WITH NUMBER OF SPACES
- EXISTING PEDESTRIAN CROSSING
- EXISTING STORM DRAIN LINE AND SIZE
- EXISTING SANITARY LINE AND SIZE
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING OVERHEAD WIRES
- EXISTING DRAIN INLET
- EXISTING MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING GAS VALVE
- EXISTING WATER VALVE
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING SIGN
- BORING LOCATION AND DESIGNATION

NOTES:

1. EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "SURVEY OF PROPERTY," PREPARED BY JMC, LAST REVISED 11/19/2020.
2. GEOTECHNICAL BORING/TEST PIT LOCATIONS DEPICTED ON THIS PLAN WERE TAKEN FROM THE GEOTECHNICAL REPORT ENTITLED, "REPORT ON SUBSURFACE SOIL AND FOUNDATION INVESTIGATION", DATED 01/18/2021, PREPARED BY CARLIN SIMPSON & ASSOCIATES.

No.	Revision	Date	By
1.	REVISED PER TOWN COMMENTS	12/09/2020	BMS
2.	PLANNING BOARD SUBMISSION	03/19/2021	BMS
3.	PLANNING BOARD SUBMISSION	06/22/2021	BMS

Previous Editions Obsolete

APPLICANT: FARRELL COMMUNITIES AT OVERLOOK PONDS LLC
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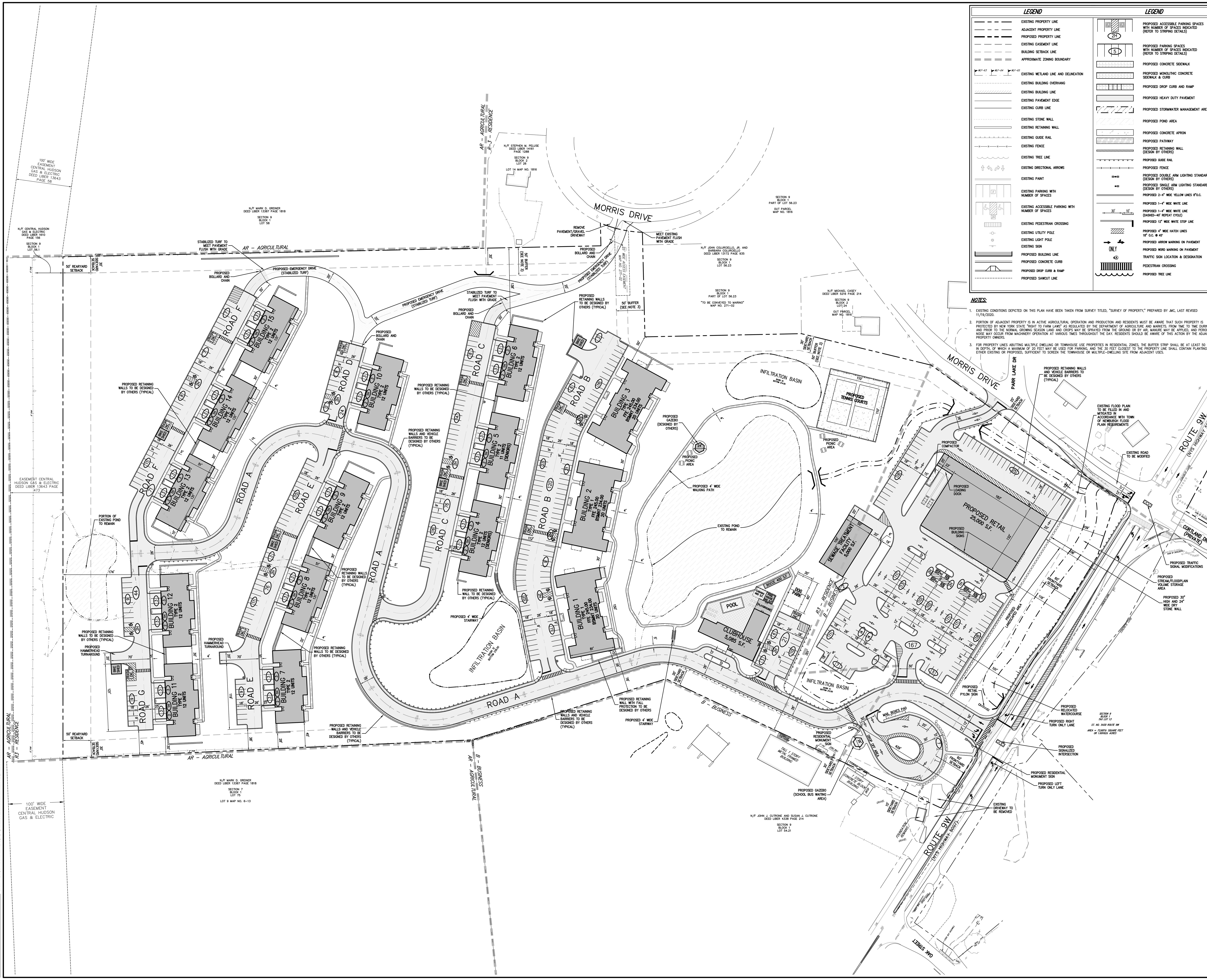
ENVIRONMENTAL CONSTRAINTS PLAN

OVERLOOK FARMS A FARRELL COMMUNITY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

Drawn: BMS		Approved: JS	
Scale:	1" = 50'		
Date:	10/23/2019		
Project No:	17088		
17088-SITE	ENV-CONS	ENV-CONS.scr	
Drawing No:	C–020		



LEGEND

	EXISTING PROPERTY LINE
	ADJACENT PROPERTY LINE
	PROPOSED PROPERTY LINE
	EXISTING EASEMENT LINE
	BUILDING SETBACK LINE
	APPROXIMATE ZONING BOUNDARY
	EXISTING WETLAND LINE AND DELINEATION
	EXISTING BUILDING OVERHANG
	EXISTING BUILDING LINE
	EXISTING PAVEMENT EDGE
	EXISTING CURB LINE
	EXISTING STONE WALL
	EXISTING RETAINING WALL
	EXISTING GUIDE RAIL
	EXISTING FENCE
	EXISTING TREE LINE
	EXISTING DIRECTIONAL ARROWS
	EXISTING PAINT
	EXISTING PARKING WITH NUMBER OF SPACES
	EXISTING ACCESSIBLE PARKING WITH NUMBER OF SPACES
	EXISTING PEDESTRIAN CROSSING
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING SIGN
	PROPOSED BUILDING LINE
	PROPOSED CONCRETE CURB
	PROPOSED DROP CURB & RAMP
	PROPOSED SAWCUT LINE

LEGEND

2H	PROPOSED ACCESSIBLE PARKING SPACES WITH NUMBER OF SPACES INDICATED (REFER TO STRIPING DETAILS)
5	PROPOSED PARKING SPACES WITH NUMBER OF SPACES INDICATED (REFER TO STRIPING DETAILS)
	PROPOSED CONCRETE SIDEWALK
	PROPOSED MONOLITHIC CONCRETE SIDEWALK & CURB
	PROPOSED DROP CURB AND RAMP
	PROPOSED HEAVY DUTY PAVEMENT
	PROPOSED STORMWATER MANAGEMENT AREA
	PROPOSED POND AREA
	PROPOSED CONCRETE APRON
	PROPOSED PATHWAY
	PROPOSED RETAINING WALL (DESIGN BY OTHERS)
	PROPOSED GUIDE RAIL
	PROPOSED FENCE
	PROPOSED DOUBLE ARM LIGHTING STANDARD (DESIGN BY OTHERS)
	PROPOSED SINGLE ARM LIGHTING STANDARD (DESIGN BY OTHERS)
	PROPOSED 2–4" WIDE YELLOW LINES 8"O.C.
	PROPOSED 1–4" WIDE WHITE LINE
30' 10'	PROPOSED 1–4" WIDE WHITE LINE (DASHED–40' REPEAT CYCLE)
	PROPOSED 12" WIDE WHITE STOP LINE
	PROPOSED 4" WIDE HATCH LINES 18" O.C. @ 45°
	PROPOSED ARROW MARKING ON PAVEMENT
ONLY	PROPOSED WORD MARKING ON PAVEMENT
A	TRAFFIC SIGN LOCATION & DESIGNATION
	PEDESTRIAN CROSSING
	PROPOSED TREE LINE

NOTES:

1. EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "SURVEY OF PROPERTY," PREPARED BY JMC, LAST REVISED 11/19/2020.
2. PORTION OF ADJACENT PROPERTY IS IN ACTIVE AGRICULTURAL OPERATION AND PRODUCTION AND RESIDENTS MUST BE AWARE THAT SUCH PROPERTY IS PROTECTED BY NEW YORK STATE "RIGHT TO FARM LAWS" AS REGULATED BY THE DEPARTMENT OF AGRICULTURE AND MARKETS. FROM TIME TO TIME DURING AND PRIOR TO THE NORMAL GROWING SEASON LAND AND CROPS MAY BE SPRAYED FROM THE GROUND OR BY AIR, MANURE MAY BE APPLIED, AND PERIODIC NOISE MAY OCCUR FROM MACHINERY OPERATION AT VARIOUS TIMES THROUGHOUT THE DAY. RESIDENTS SHOULD BE AWARE OF THIS ACTION BY THE ADJACENT PROPERTY OWNERS.
3. FOR PROPERTY LINES ABUTTING MULTIPLE DWELLING OR TOWNHOUSE USE PROPERTIES IN RESIDENTIAL ZONES, THE BUFFER STRIP SHALL BE AT LEAST 50 FEET IN DEPTH, OF WHICH A MAXIMUM OF 20 FEET MAY BE USED FOR PARKING, AND THE 30 FEET CLOSEST TO THE PROPERTY LINE SHALL CONTAIN PLANTINGS, EITHER EXISTING OR PROPOSED, SUFFICIENT TO SCREEN THE TOWNHOUSE OR MULTIPLE-DWELLING SITE FROM ADJACENT USES.

No.	Revision	Date	By
1.	REVISED PER TOWN COMMENTS	12/09/2020	BMS
2.	PLANNING BOARD SUBMISSION	03/19/2021	BMS
3.	REVISED BUS DROP OFF	04/27/2021	BMS
4.	PLANNING BOARD SUBMISSION	06/22/2021	BMS

Previous Editions Obsolete

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LAYOUT PLAN

OVERLOOK FARMS A FARRELL COMMUNITY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

Drawn: BMS	Approved: JS	
Scale: 1" = 50'		
Date: 10/23/2019		
Project No: 17088		
17088-SITE	LAY	LAY.scr
Drawing No: C–100		

NOTES:

1. EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "SURVEY OF PROPERTY," PREPARED BY JMC, LAST REVISED 11/19/2020.
2. GEOTECHNICAL BORING/TEST PIT LOCATIONS DEPICTED ON THIS PLAN WERE TAKEN FROM THE GEOTECHNICAL REPORT ENTITLED, "REPORT ON SUBSURFACE SOIL AND FOUNDATION INVESTIGATION", DATED 1/18/2021, PREPARED BY CARLIN SIMPSON & ASSOCIATES.
3. ALL STORMWATER MANAGEMENT PRACTICES SHALL REMAIN UNDISTURBED AND BE PROTECTED FROM HEAVY MACHINERY TRAFFIC DURING CONSTRUCTION. HOWEVER DURING CONSTRUCTION OF THE PRACTICE THE CONTRACTOR SHALL MINIMIZE AND AVOID HEAVY MACHINERY TRAFFIC TO THE MAXIMUM EXTENT PRACTICABLE. THERE SHALL BE NO STORAGE OF MATERIALS WITHIN AREAS TO BE USED FOR STORMWATER MANAGEMENT PRACTICES. THE CONTRACTOR SHALL INSTALL CONSTRUCTION FENCE AROUND THE PRACTICE TO DISCOURAGE VEHICLE TRAFFIC.
4. ALL FILLS SHALL BE COMPACTED TO PROVIDE STABILITY OF MATERIAL AND TO PREVENT SETTLEMENT.
5. EXCAVATIONS AND FILLS SHALL NOT ENDANGER ADJOINING PROPERTIES, NOR DIVERT WATER ONTO THE PROPERTY OF OTHERS AT ANY TIME DURING THE COURSE OF CONSTRUCTION.
6. CONTRACTOR SHALL REFER TO EROSION AND SEDIMENT CONTROL PLAN FOR FURTHER DIRECTION REGARDING SITE STABILIZATION THROUGHOUT THE COURSE OF CONSTRUCTION.

(PROPOSED GRADE) TW

BW (PROPOSED GRADE)

RETAINING WALL SPOT GRADE LEGEND

LEGEND

EXISTING PROPERTY LINE
ADJACENT PROPERTY LINE
PROPOSED PROPERTY LINE
EXISTING EASEMENT LINE
WLF-63 WLF-64 WLF-65 EXISTING WETLAND LINE AND DELINEATION
EXISTING WETLAND BUFFER
EXISTING BUILDING OVERHANG
EXISTING BUILDING LINE
EXISTING PAVEMENT EDGE
EXISTING CURB LINE
172 EXISTING CONTOUR
170 EXISTING INDEX CONTOUR
191.00 X EXISTING SPOT GRADE
EXISTING STONE WALL
EXISTING RETAINING WALL
EXISTING GUIDE RAIL
EXISTING FENCE
EXISTING DRAIN INLET
EXISTING MANHOLE
EXISTING UTILITY POLE
EXISTING LIGHT POLE
EXISTING SIGN
PROPOSED BUILDING LINE
PROPOSED CURB
PROPOSED CONCRETE SIDEWALK
PROPOSED DROP CURB AND RAMP
PROPOSED PATHWAY
202 PROPOSED CONTOUR
191.00 + PROPOSED SPOT GRADE
SMH PROPOSED SANITARY SEWER MANHOLE
MH PROPOSED STORM DRAIN MANHOLE
CI PROPOSED TYPE CI DRAIN INLET
DI PROPOSED TYPE DI DRAIN INLET
LI PROPOSED TYPE LI DRAIN LAWN INLET
PROPOSED HEADWALL
PROPOSED HYDRANT
PROPOSED RETAINING WALL (DESIGN BY OTHERS)
PROPOSED LIGHTING STANDARD
B-1 BORING LOCATION AND DESIGNATION
PROPOSED LIMIT OF DISTURBANCE
PROPOSED GRASS SWALE
PROPOSED RIP-RAP SWALE
PROPOSED CONDITIONS 100 YEAR FLOODPLAIN
PROPOSED CONDITIONS 500 YEAR FLOODPLAIN

No.	Revision	Date	By
1.	REVISED PER TOWN COMMENTS	12/09/2020	BMS
2.	PLANNING BOARD SUBMISSION	03/19/2021	BMS
3.	PLANNING BOARD SUBMISSION	06/22/2021	BMS

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GRADING PLAN

OVERLOOK FARMS A FARRELL COMMUNITY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

Drawn:	BMS	Approved:	JS
Scale:	1" = 50'		
Date:	10/23/2019		
Project No:	17088		
17088-SITE	GRAD	LAY.scr	
Drawing No:	C-200		

NOTES:

1. EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "SURVEY OF PROPERTY," PREPARED BY JMC, LAST REVISED 11/19/2020.
2. ALL STORMWATER MANAGEMENT PRACTICES SHALL REMAIN UNDISTURBED AND BE PROTECTED FROM HEAVY MACHINERY TRAFFIC DURING CONSTRUCTION. HOWEVER DURING CONSTRUCTION OF THE PRACTICE THE CONTRACTOR SHALL MINIMIZE AND AVOID HEAVY MACHINERY TRAFFIC TO THE MAXIMUM EXTENT PRACTICABLE. THERE SHALL BE NO STORAGE OF MATERIALS WITHIN AREAS TO BE USED FOR STORMWATER MANAGEMENT PRACTICES. THE CONTRACTOR SHALL INSTALL CONSTRUCTION FENCE AROUND THE PRACTICE TO DISCOURAGE VEHICLE TRAFFIC.
3. UNLESS OTHERWISE SPECIFIED, PIPE FOR STORM DRAINS SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE) WITH A SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS IN ACCORDANCE WITH ASTM F-2648. JOINTS SHALL BE WATERTIGHT IN ACCORDANCE WITH ASTM D-3212.
4. UNLESS OTHERWISE SPECIFIED, PIPE FOR SANITARY SEWER GRAVITY LINES SHALL BE POLYVINYL CHLORIDE PIPE (PVCP), SDR-35, WITH PUSH-ON JOINTS IN ACCORDANCE WITH ASTM D-3034 AND D-3212.
5. UNLESS OTHERWISE SPECIFIED, PIPE FOR WATER LINES SHALL BE DOUBLE CEMENT-LINED DUCTILE IRON PIPE (DIP), CLASS 52, WITH MECHANICAL JOINTS IN ACCORDANCE WITH AWWA C-150, C-151, C-104 AND C-111.
6. ELECTRIC, TELEPHONE, FIRE ALARM AND CABLE TELEVISION LINES SHALL BE INSTALLED UNDERGROUND IN CONDUIT IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY HAVING JURISDICTION.
7. CONSTRUCTION OF POTABLE WATER UTILITIES AND CONNECTION TO THE TOWN OF NEWBURGH WATER SYSTEM REQUIRES A PERMIT FROM THE TOWN OF NEWBURGH WATER DEPARTMENT. ALL REQUIREMENTS SHALL CONFORM TO THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF HEALTH AND THE TOWN OF NEWBURGH.
8. ALL WATER SERVICE LINES FOUR (4) INCHES AND LARGER IN DIAMETER SHALL BE CEMENT LINED, CLASS 52, DUCTILE IRON PIPE CONFORMING TO ANSI/AWWA C151/A21.51-91 OR LATER REVISION FOR DUCTILE IRON PIPE JOINTS SHALL BE EITHER PUSH-ON OR MECHANICAL JOINT AS REQUIRED.
9. THRUST RESTRAINT OF THE PIPE SHALL BE THROUGH THE USE OF JOINT RESTRAINT. THRUST BLOCKS ARE NOT ACCEPTABLE. JOINT RESTRAINT SHALL BE THROUGH THE USE OF MECHANICAL JOINT PIPE WITH RETAINER GLANDS. ALL FITTINGS AND VALVES SHALL ALSO BE INSTALLED WITH RETAINER GLANDS FOR JOINT RESTRAINT. RETAINER GLANDS SHALL BE EBBA IRON MEGALUG SERIES 1100 OR APPROVED EQUAL. THE USE OF A MANUFACTURED RESTRAINED JOINT PIPE IS ACCEPTABLE WITH PRIOR APPROVAL OF THE WATER DEPARTMENT.
10. ALL FITTINGS SHALL BE CAST IRON OR DUCTILE IRON, MECHANICAL JOINT, CLASS 250 AND CONFORM TO ANSI/AWWA C110/A21.10-87 OR LATEST REVISION FOR DUCTILE AND GRAY IRON FITTINGS OR ANSI/AWA C153/A21.53-94 FOR LATEST REVISION FOR DUCTILE IRON COMPACT FITTINGS.
11. ALL VALVES SHALL BE RESILIENT WEDGE, MECHANICAL JOINT GATE VALVES CONFORMING TO ANSI/AWWA C509 OR LATEST REVISION SUCH AS MUELLER A-2360-23 OR APPROVED EQUAL. ALL GATE VALVES SHALL OPEN LEFT (COUNTER CLOCK WISE).
12. TAPPING SLEEVE SHALL BE MECHANICAL JOINT SUCH AS MUELLER H-615 OR EQUAL. TAPPING VALVE SHALL BE RESILIENT WEDGE GATE VALVES CONFORMING TO ANSI/AWWA C509 SUCH AS MUELLER MODEL T-2360-19 OR APPROVED EQUAL. ALL TAPPING SLEEVES AND VALVES SHALL BE TESTED TO 150 PS1 MINIMUM; TESTING OF THE TAPPING SLEEVE AND VALVE MUST BE WITNESSED AND ACCEPTED BY THE TOWN OF NEWBURGH WATER DEPARTMENT PRIOR TO CUTTING INTO THE PIPE.
13. ALL WATER SERVICE LINES TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING. CORPORATION STOPS SHALL BE MUELLER H-15020 FOR ¾ AND 1 INCH, MUELLER H-15000 OR B-25000 FOR 1 ½ OR 2 INCH SIZES. CURB VALVES SHALL BE MUELLER H-1501-2 FOR ¾ AND 1 INCH AND MUELLER B-25204 FOR 1 ½ AND 2 INCH SIZES. CURB BOXES S HALL BE MUELLER H-10312 FOR ¾ AND 1 INCH AND MUELLER H-10310 FOR 1 ½ AND 2 INCH SIZES.
14. ALL PIPE INSTALLATION SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF NEWBURGH WATER DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS AS REQUIRED WITH THE TOWN OF NEWBURGH WATER DEPARTMENT.
15. THE WATER MAIN SHALL BE TESTED, DISINFECTED AND FLUSHED IN ACCORDANCE WITH THE TOWN OF NEWBURGH REQUIREMENTS. ALL TESTING, DISINFECTION AND FLUSHING SHALL BE COORDINATED WITH THE TOWN OF NEWBURGH WATER DEPARTMENT. PRIOR TO PUTTING THE WATER MAIN IN SERVICE, SATISFACTORY SANITARY RESULTS FROM A NEW YORK STATE CERTIFIED LAB MUST BE SUBMITTED TO THE TOWN OF NEWBURGH WATER DEPARTMENT. THE TEST SAMPLES MUST BE COLLECTED BY A REPRESENTATIVE OF THE TESTING LABORATORY AND WITNESSED BY THE WATER DEPARTMENT.
16. TALL HYDRANTS SHALL BE CLOW-EDDY F-2640 CONFORMING TO AWWA STANDARD C-502, LATEST REVISION. ALL HYDRANTS SHALL INCLUDE A 5 ¼ INCH MAIN VALVE OPENING, TWO 2 ½ INCH DIAMETER NPT HOSE NOZZLES, ONE 4 INCH NPT STEAMER NOZZLE, A 6 INCH DIAMETER INLET CONNECTION AND A 1 ½ INCH PENTAGON OPERATING NUT. ALL HYDRANTS SHALL OPEN LEFT (COUNTER-CLOCKWISE). HYDRANTS ON MAINS TO BE DEDICATED TO THE TOWN SHALL BE EQUIPMENT YELLOW. HYDRANTS LOCATED ON PRIVATE PROPERTY SHALL BE RED.
17. PRESSURE AND LEAKAGE TESTS ARE REQUIRED AND SHALL BE DONE IN ACCORDANCE WITH AWWA C-600 STANDARDS.
18. DISINFECTION OF ALL NEW WORK SHALL BE DONE IN ACCORDANCE WITH AWWA C-651 – YEAR OF LATEST REVISION STANDARDS.
19. ALL WATER MAINS SHALL BE 8", CLASS 52, DUCTILE IRON PIPE UNLESS OTHERWISE NOTED.
20. THE FINAL LAYOUT OF THE PROPOSED WATER AND/OR SEWER CONNECTION, INCLUDING ALL MATERIALS, SIZE AND LOCATION OF SERVICE AND ALL APPURTENANCES, IS SUBJECT TO THE REVIEW AND APPROVAL OF THE TOWN OF NEWBURGH WATER AND/OR SEWER DEPARTMENT. NO PERMITS SHALL BE ISSUED FOR A WATER AND/OR SEWER CONNECTION UNTIL A FINAL LAYOUT IS APPROVED BY THE RESPECTIVE DEPARTMENT.
21. CONSTRUCTION OF SANITARY SEWER FACILITIES AND CONNECTION TO THE TOWN OF NEWBURGH SANITARY SEWER SYSTEM REQUIRES A PERMIT FROM THE TOWN OF NEWBURGH SEWER DEPARTMENT. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE NYSDEC AND THE TOWN OF NEWBURGH.
22. ALL SEWER PIPE INSTALLATION SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF NEWBURGH SEWER DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS AS REQUIRED WITH THE TOWN OF NEWBURGH SEWER DEPARTMENT.
23. ALL GRAVITY SANITARY SEWER SERVICE LINES SHALL BE 4 INCHES IN DIAMETER OR LARGER AND SHALL BE SDR-35 PVC PIPE CONFORMING TO ASTM D-3034-89. JOINTS SHALL BE PUSH-ON WITH ELASTOMERIC RING GASKET CONFORMING ASTM D-3212. FITTINGS SHALL BE AS MANUFACTURED BY THE PIPE SUPPLIER OR EQUAL AND SHALL HAVE A BELL AND SPIGOT CONFIGURATION COMPATIBLE WITH THE PIPE.
24. THE SEWER MAIN SHALL BE TESTED IN ACCORDANCE WITH TOWN OF NEWBURGH REQUIREMENTS. ALL TESTING SHALL BE COORDINATED WITH THE TOWN OF NEWBURGH SEWER DEPARTMENT.
25. THE FINAL LAYOUT OF THE PROPOSED WATER AND/OR SEWER CONNECTION, INCLUDING ALL MATERIALS, SIZE AND LOCATION OF SERVICE AND ALL APPURTENANCES, IS SUBJECT TO THE REVIEW AND APPROVAL OF THE TOWN OF NEWBURGH WATER AND/OR SEWER DEPARTMENT. NO PERMITS SHALL BE ISSUED FOR A WATER AND/OR SEWER CONNECTION UNTIL A FINAL LAYOUT IS APPROVED BY THE RESPECTIVE DEPARTMENT.
26. THIS PROJECT HAS INDICATED THE INTENT TO PROVIDE ADEQUATE FIRE FLOW BY THE PROPOSED INSTALLATION OF SPRINKLER SYSTEMS MEETING NFPA REQUIREMENTS, AND IS, THEREFORE, EXEMPT FROM THE NEEDED FIRE FLOW GUIDELINES OF THE INSURANCE SERVICES OFFICE (ISO). THE PROPOSED SPRINKLER SYSTEM DESIGN HAS NOT BEEN EVALUATED BY THE ORANGE COUNTY DEPARTMENT OF HEALTH FOR COMPLIANCE WITH NFPA REQUIREMENTS.
27. THE PROPOSED CLUBHOUSE POOL DESIGN AND WATER SERVICE LINES SHALL BE DESIGNED BY OTHERS UNDER A SEPARATE APPLICATION. ALL WATER SERVICES TO THE PROPOSED POOL SHALL REQUIRE AN APPROPRIATE BACKFLOW PREVENTER DEVICE TO PREVENT CROSS CONNECTION TO THE PROPOSED DISTRIBUTION SYSTEM.
28. BACKFLOW PREVENTION DEVICES FOR BOTH THE 2" DOMESTICS AND 4" FIRE SERVICES TO BE APPROVED BY OCDOH AND ARE DESIGNED BY OTHERS UNDER A SEPARATE APPLICATION.
29. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT AND SHALL PERFORM ALL WORK REQUIRED IN CONNECTION WITH ALL THE TESTS AS SPECIFIED HEREIN. ALL PIPE SHALL BE TESTED BY HYDROSTATIC PRESSURE, FIFTY (50) PERCENT IN EXCESS OF THE NORMAL PSI WORKING PRESSURE BUT NOT LESS THAN 150 PSI OR MORE THAN THE DESIGN RATING OF THE PIPE APPURTENANCES, IN ACCORDANCE WITH AWWA SPECIFICATION C-600. THE TEST SHALL BE DETERMINED BY THE WATER AUTHORITY AND/OR OWNER'S FIELD REPRESENTATIVE. EACH SECTION TESTED SHALL BE SLOWLY FILLED WITH WATER, CARE BEING TAKEN TO EXPEL ALL AIR FROM THE PIPES. IF NECESSARY, THE PIPES SHALL BE TAPPED AT HIGH POINTS TO VENT THE AIR. REQUIRED PRESSURE, AS MEASURED AT THE POINT OF LOWEST ELEVATION, SHALL BE APPLIED FOR NOT LESS THAN TWO (2) HOURS, AND ALL PIPE, FITTINGS, VALVES, HYDRANTS AND JOINTS SHALL BE CAREFULLY EXAMINED FOR DEFECTS. LEAKY JOINTS SHALL BE MADE WATERTIGHT.
30. IF THE SECTION BEING TESTED SHALL FAIL TO PASS THE PRESSURE TEST OR THE LEAKAGE TEST, OR BOTH, THE CONTRACTOR SHALL DO EVERYTHING NECESSARY TO LOCATE, UNCOVER, AND REPAIR OR REPLACE THE DEFECTIVE PIPE, FITTINGS OR JOINTS, AND ALL SUCH WORK SHALL BE DONE AT HIS EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.
31. IN THE EVENT OF CONFLICT BETWEEN THE TESTS SPECIFIED HEREIN AND THE TEST REQUIREMENTS OF THE TOWN OF NEWBURGH WATER DISTRICT, HEALTH DEPARTMENT OR ANY OTHER AUTHORITY HAVING JURISDICTION OVER ALL OR ANY PORTION OF THE WATER LINES INSTALLED UNDER THIS CONTRACT, THE MORE RESTRICTIVE REQUIREMENTS SHALL GOVERN.
32. AFTER THE WATER LINE HAS PASSED THE REQUIRED PRESSURE AND LEAKAGE TESTS AND BEFORE BEING PLACED INTO SERVICE, THE ENTIRE LINE SHALL BE DISINFECTED. ALL DISINFECTING METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION C-651. ALL DISINFECTION OPERATIONS AND PROCEDURES SHALL MEET WITH THE APPROVAL OF THE WATER AUTHORITY AND HEALTH DEPARTMENT.
33. IF THE INITIAL BACTERIOLOGICAL TESTS ARE NOT SATISFACTORY, THE CONTRACTOR SHALL DO EVERYTHING NECESSARY TO OBTAIN SATISFACTORY BACTERIOLOGICAL TESTS, INCLUDING MAKING PROVISIONS TO ISOLATE SHORTER SECTIONS OF LINE TO LOCATE THE SOURCE OF CONTAMINATION. ALL WORK NECESSARY AND REQUIRED TO OBTAIN SATISFACTORY BACTERIOLOGICAL TESTS SHALL BE AT THE CONTRACTORS EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.
34. THE DESIGN, CONSTRUCTION AND INSTALLATION OF THE WATER MAINS SHALL BE IN ACCORDANCE WITH THIS PLAN AND GENERALLY ACCEPTED STANDARDS IN AFFECT AT THE TIME OF CONSTRUCTION WHICH INCLUDE:
   "RECOMMENDED STANDARDS FOR WATER WORKS (TEN STATES)"
   "RURAL WATER SUPPLY, NEW YORK STATE DEPARTMENT OF HEALTH"
   "NEW YORK STATE DEPARTMENT OF HEALTH AND ORANGE COUNTY DEPARTMENT OF HEALTH POLICIES, PROCEDURES, AND STANDARDS."
35. UPON COMPLETION OF THE FACILITIES, THE FINISHED WORKS SHALL BE INSPECTED, TESTED, AND CERTIFIED COMPLETE BY THE PROFESSIONAL ENGINEER SUPERVISING CONSTRUCTION. NO PART OF THE FACILITIES SHALL BE PLACED INTO SERVICE UNTIL ACCEPTED BY THE PROFESSIONAL ENGINEER.
36. ALL WATER DISTRIBUTION SYSTEM PIPES AND APPURTENANCES SHALL CONFORM TO CURRENT TOWN OF NEWBURGH STANDARDS.
37. BACKFLOW PREVENTION DEVICE WILL BE LOCATED IN THE BUILDING. APPLICATION FOR APPROVAL SHALL BE SUBMITTED UNDER SEPARATE COVER BY THE MECHANICAL ENGINEER/ARCHITECT.
38. UNDER INDUSTRIAL CODE 753, THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY ALL OPERATORS OF UTILITIES LISTED ON THE CURRENT "MASTER LIST OF OPERATORS" ON FILE WITH THE CENTRAL REGISTRY AS WELL AS THE TOWN OF NEWBURGH AND NYSDOT PRIOR TO THE START OF THIS WORK SO THAT ALL THE VARIOUS UNDERGROUND UTILITY OPERATORS WILL BE ABLE TO LOCATE AND MARK THE LOCATIONS OF THEIR OWN UTILITIES. NO WORK SHALL COMMENCE UNTIL ALL THE OPERATORS HAVE NOTIFIED THE CONTRACTOR THAT THEIR UTILITIES HAVE BEEN LOCATED
39. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION, INSOFAR AS THEY MAY BE ENDANGERED BY HIS OPERATIONS. THIS SHALL HOLD TRUE WHETHER OR NOT THEY ARE SHOWN ON THE CONTRACT DRAWINGS. IF THEY ARE SHOWN ON THE DRAWINGS, THEIR LOCATIONS ARE NOT GUARANTEED EVEN THOUGH THE INFORMATION WAS OBTAINED FROM THE BEST AVAILABLE SOURCES. THE CONTRACTOR SHALL, AT HIS OR HER OWN EXPENSE, REPAIR OR REPLACE ANY STRUCTURES OR UTILITIES THAT HE OR SHE DAMAGES, AND SHALL CONSTANTLY PROCEED WITH CAUTION TO PREVENT UNDUE INTERRUPTION TO UTILITY SERVICE.
40. POTABLE WATER PIPE NETWORKS MUST BE IN COMPLIANCE WITH THE "NO LEAD LAW", THE AMENDMENT TO THE SAFE DRINKING WATER ACT WHICH PROHIBITS THE USE OF BRASS PRODUCTS CONTAINING MORE THAN 0.25% LEAD. THE WATER SERVICE INSTALLATION MUST ALSO COMPLY WITH THE "NO LEAD LAW" THAT WENT INTO EFFECT JANUARY 4, 2014.
41. HYDRANT DRAINS ARE TO BE PLUGGED IF GROUNDWATER IS EXPECTED WITHIN 2' OR LESS BELOW BASE. WHEN DRAINS ARE PLUGGED, THE BARRELS MUST BE PUMPED OUT AFTER USE AND THESE HYDRANTS MUST BE MARKED/LABELED TO INDICATE AS SUCH.

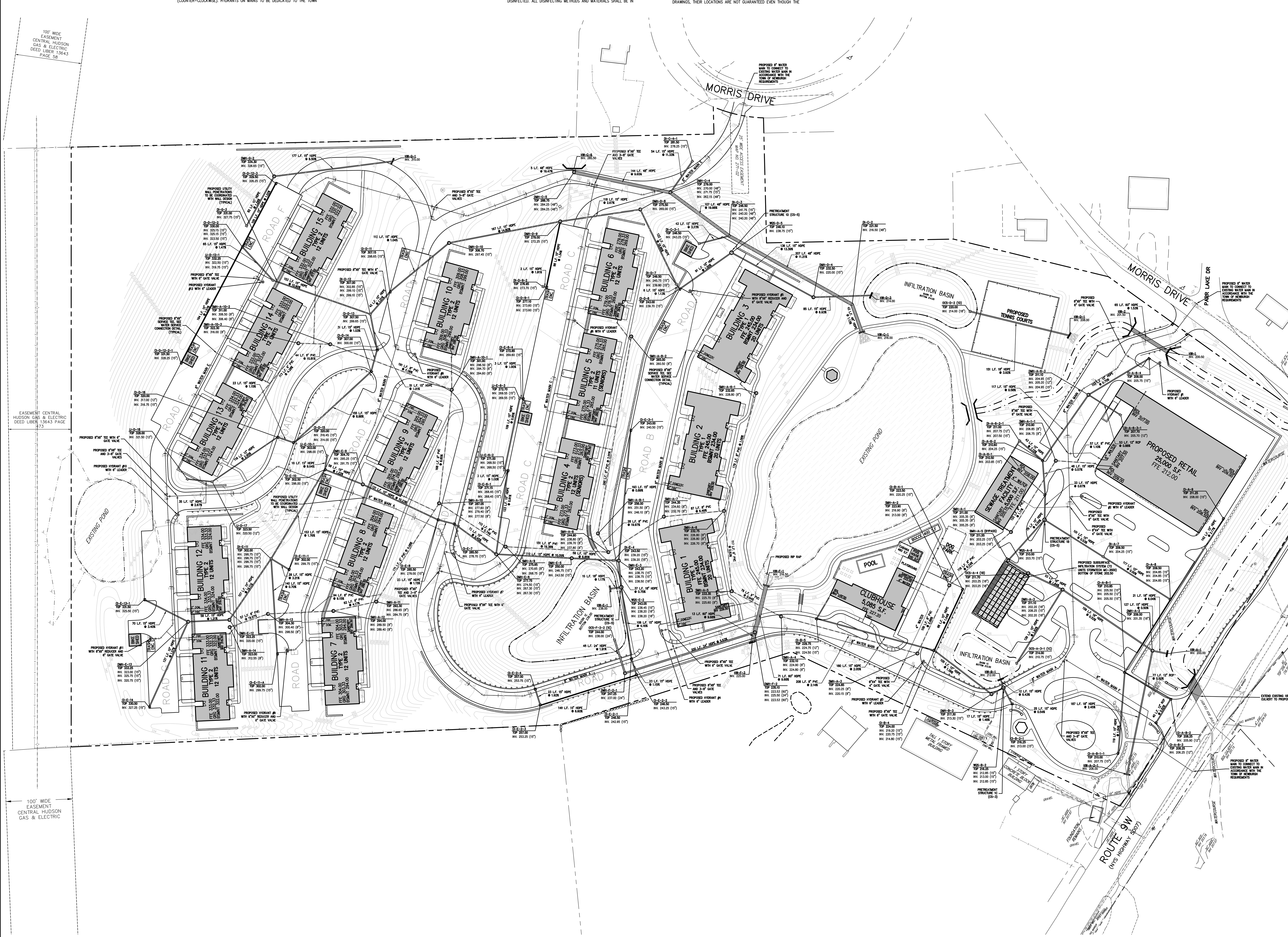
EBAA IRON RESTRAINT LENGTH SUMMARY

BEND TYPE	BEND ANGLE	NOMINAL PIPE DIAMETER (IN)	BRANCH SIZE (IN)	BURY DEPTH (FT)	VERTICAL OFFSET(4) (FT)	RESTRAINT LENGTH(1)(2) (FT)	RESTRAINT LENGTH(3) HIGH-SIDE (FT)	RESTRAINT LENGTH(3) LOW-SIDE (FT)
HORIZONTAL BEND	11.25°	8	N/A	4.5	N/A	2	N/A	N/A
HORIZONTAL BEND	22.5°	8	N/A	4.5	N/A	3	N/A	N/A
HORIZONTAL BEND	45°	8	N/A	4.5	N/A	5	N/A	N/A
HORIZONTAL BEND	45°	6	N/A	4.5	N/A	4	N/A	N/A
TEE(3)	N/A	8	8	4.5	N/A	1	N/A	N/A
TEE(3)	N/A	8	6	4.5	N/A	1	N/A	N/A
TEE(3)	N/A	8	4	4.5	N/A	1	N/A	N/A
REDUCER (HYDRANT)	N/A	8	6	4.5	N/A	11	N/A	N/A
VERTICAL OFFSET	45°	8	N/A	4.5	8	N/A	11	3
VERTICAL OFFSET SYM. RETURN	45°	8	N/A	4.5	8	N/A	11	3

(1) ALL JOINTS WITHIN THE CALCULATED LENGTH MUST BE RESTRAINED.
(2) IF THE DISTANCE BETWEEN FITTINGS IS LESS THAN OR EQUAL TO THE CALCULATED RESTRAINT LENGTH, RESTRAIN ALL JOINTS BETWEEN THOSE FITTINGS.
(3) PIPE LENGTH FROM MAIN RUN SHALL BE NO LESS THAN 9 FEET BEFORE FIRST JOINT.
(4) DISTANCE TO DROP THE WATER LINE BENEATH THE BURY DEPTH.

LEGEND

EXISTING PROPERTY LINE
ADJACENT PROPERTY LINE
EXISTING EASEMENT LINE
EXISTING WETLAND LINE AND DELINEATION
EXISTING BUILDING LINE
EXISTING PAVEMENT EDGE
EXISTING CURB LINE
EXISTING STONE WALL
EXISTING RETAINING WALL
EXISTING GUIDE RAIL
EXISTING FENCE
EXISTING STORM DRAIN LINE AND SIZE
EXISTING SANITARY LINE AND SIZE
EXISTING WATER LINE
EXISTING GAS LINE
EXISTING OVERHEAD WIRES
EXISTING DRAIN INLET
EXISTING MANHOLE
EXISTING FIRE HYDRANT
EXISTING GAS VALVE
EXISTING WATER VALVE
EXISTING UTILITY POLE
EXISTING LIGHT POLE
EXISTING SIGN
PROPOSED BUILDING LINE
PROPOSED CONCRETE CURB
PROPOSED CONCRETE SIDEWALK
SMH PROPOSED SANITARY SEWER MANHOLE
DMH PROPOSED STORM DRAIN MANHOLE
CI PROPOSED TYPE CI DRAIN INLET
DI PROPOSED TYPE DI DRAIN INLET
LI PROPOSED TYPE LI DRAIN LAWN INLET
PROPOSED HEADWALL
PROPOSED HYDRANT
15" HDPE PROPOSED STORM DRAIN LINE & SIZE
8" PVC PROPOSED SANITARY SEWER LINE & SIZE
6" WATER PROPOSED WATER LINE & SIZE
PROPOSED GAS LINE
PROPOSED ELECTRIC/TELEPHONE/CABLE
PROPOSED WATER VALVE
PROPOSED GAS VALVE
PROPOSED RIP-RAP APRON
PROPOSED RETAINING WALL (DESIGN BY OTHERS)



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UTILITIES PLAN

OVERLOOK FARMS A FARRELL COMMUNITY
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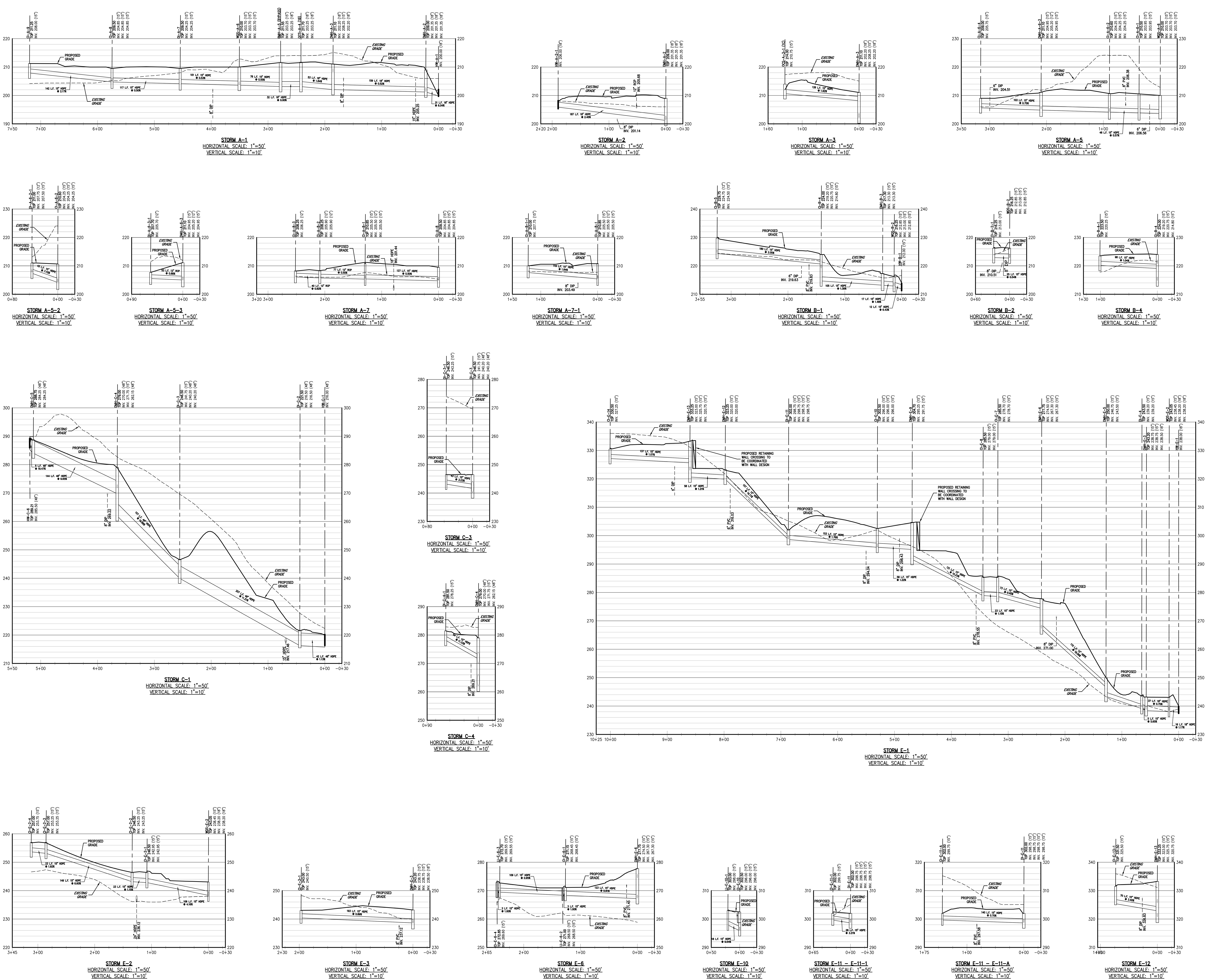

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STORM SEWER PROFILES

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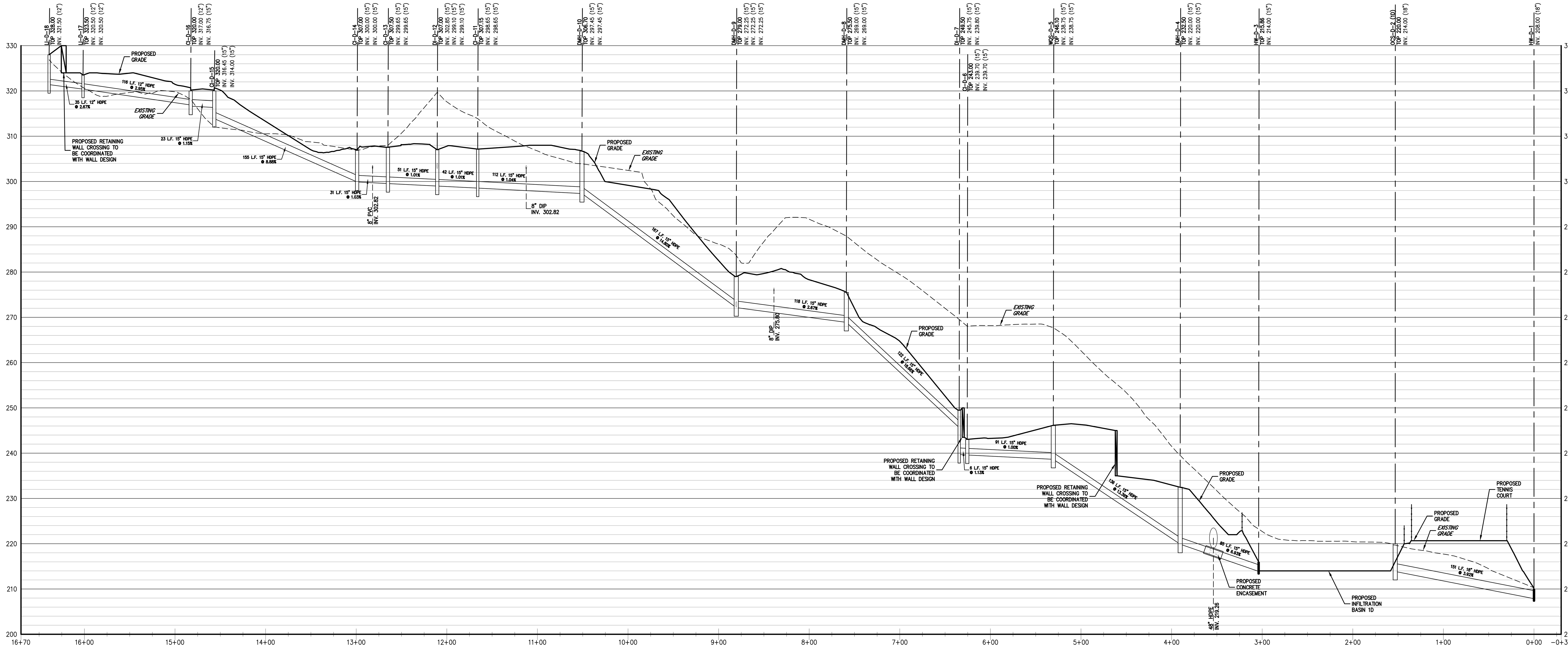

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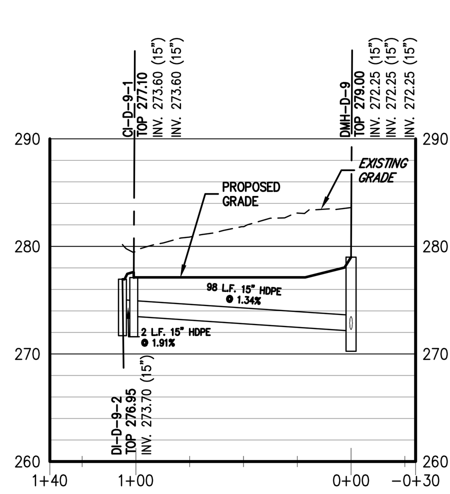
VERTICAL SCALE: 1"=10'



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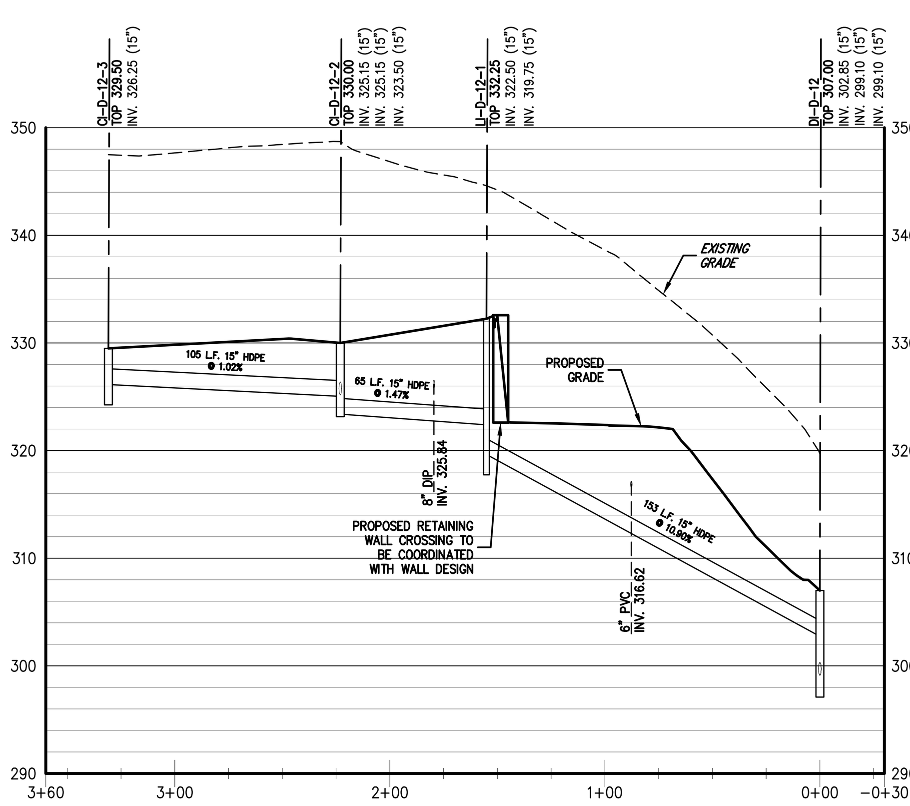

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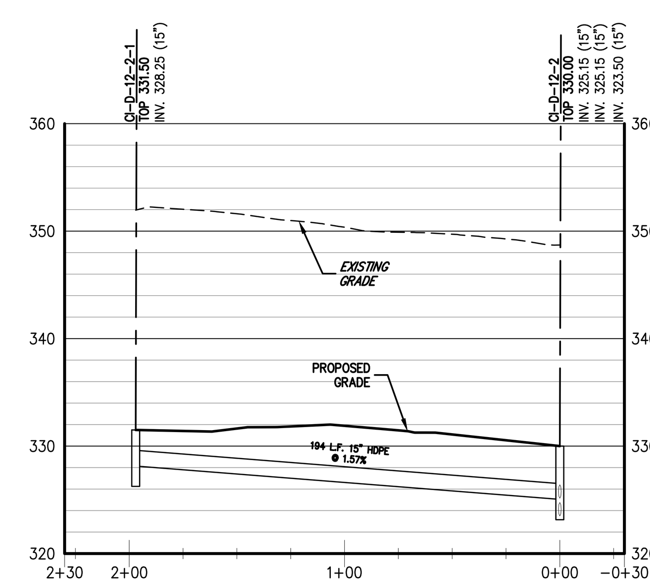

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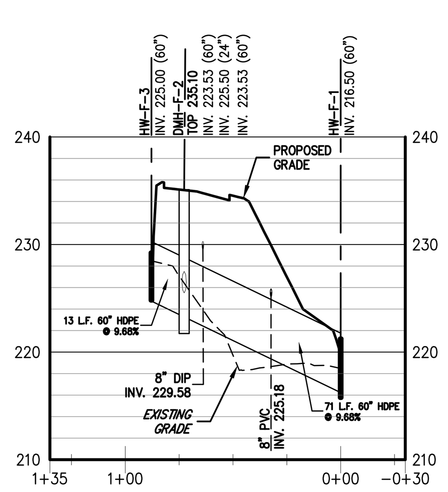

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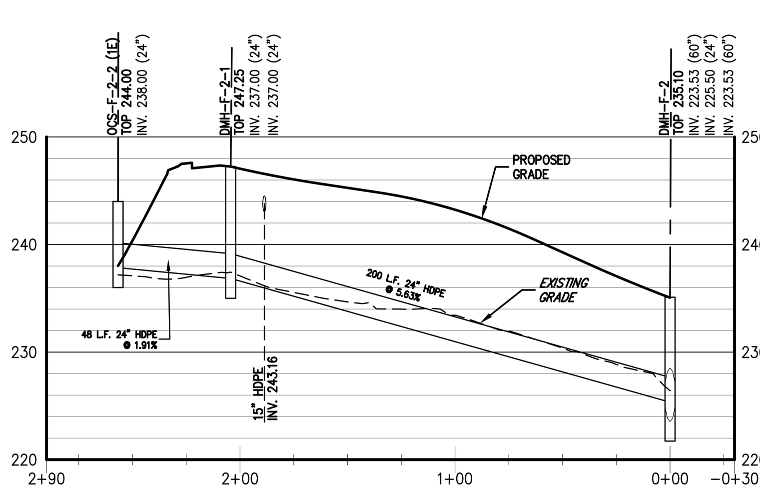

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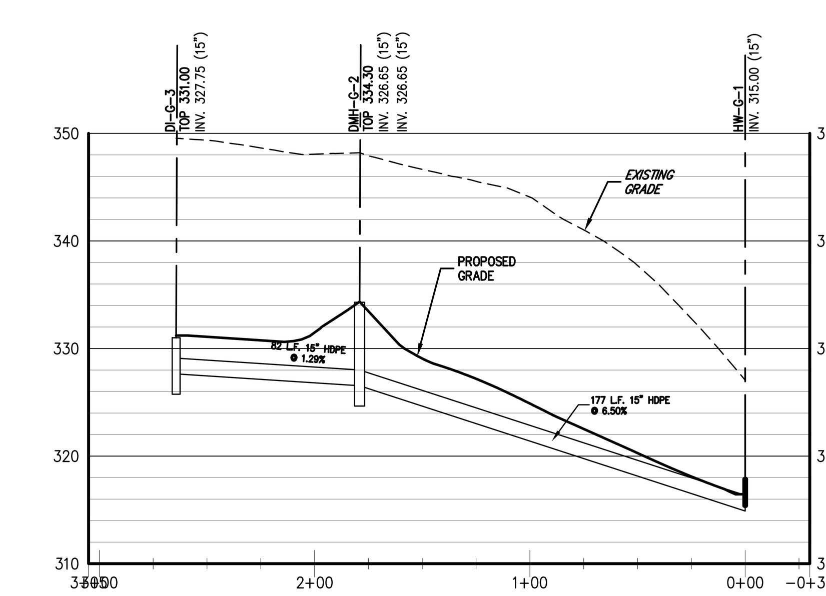

STORM G-1
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VERTICAL SCALE: 1"=10'

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STORM SEWER PROFILES

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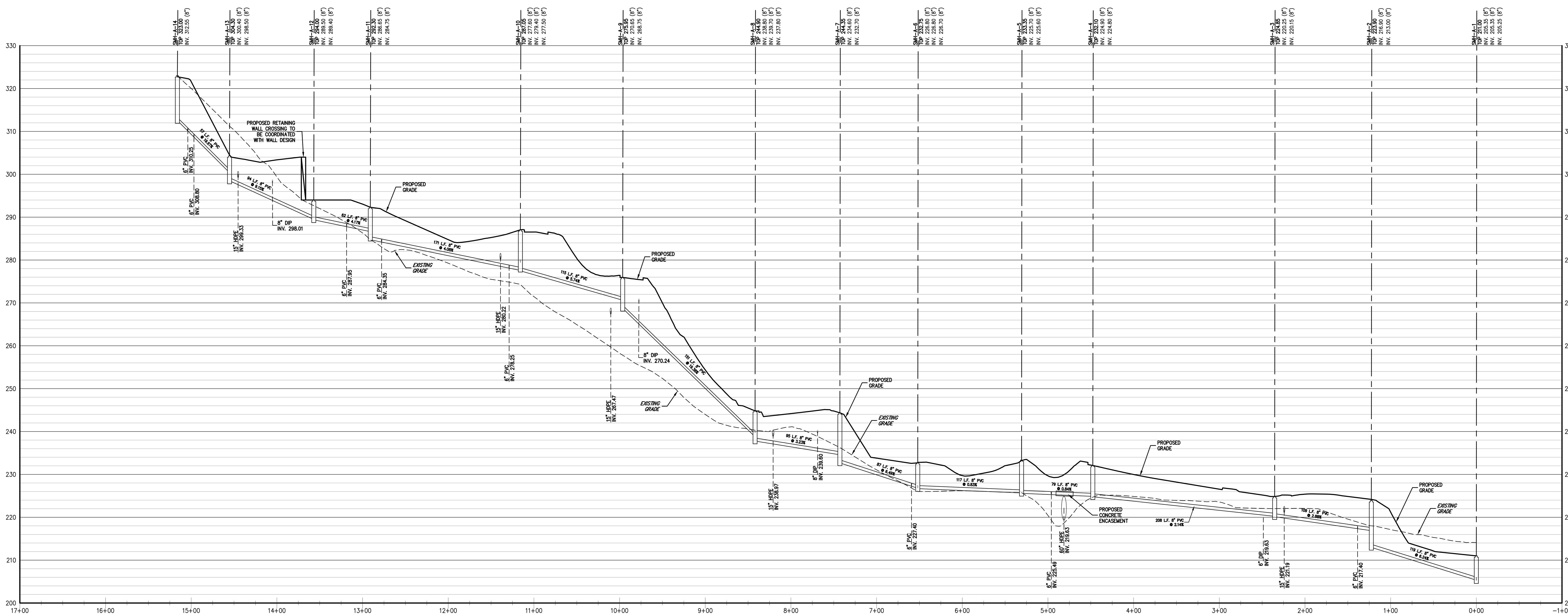

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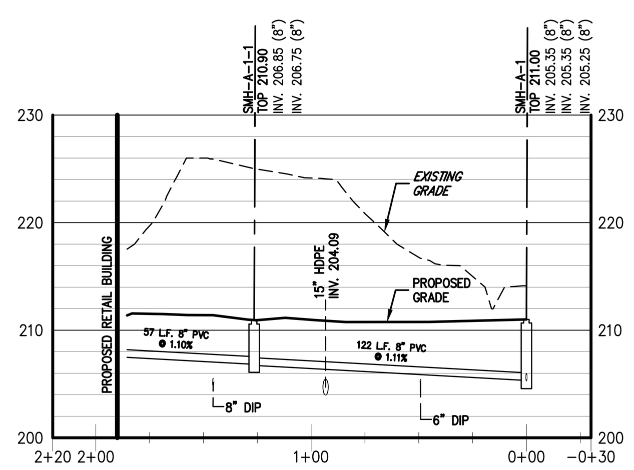

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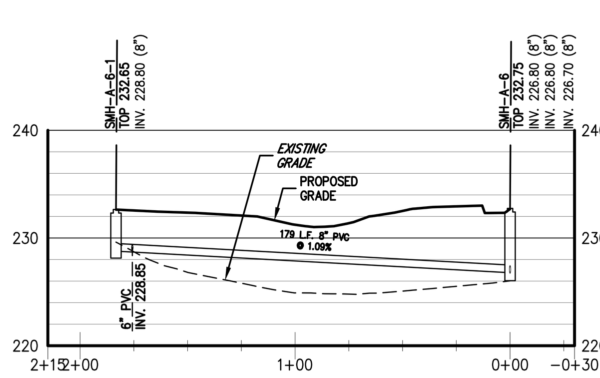

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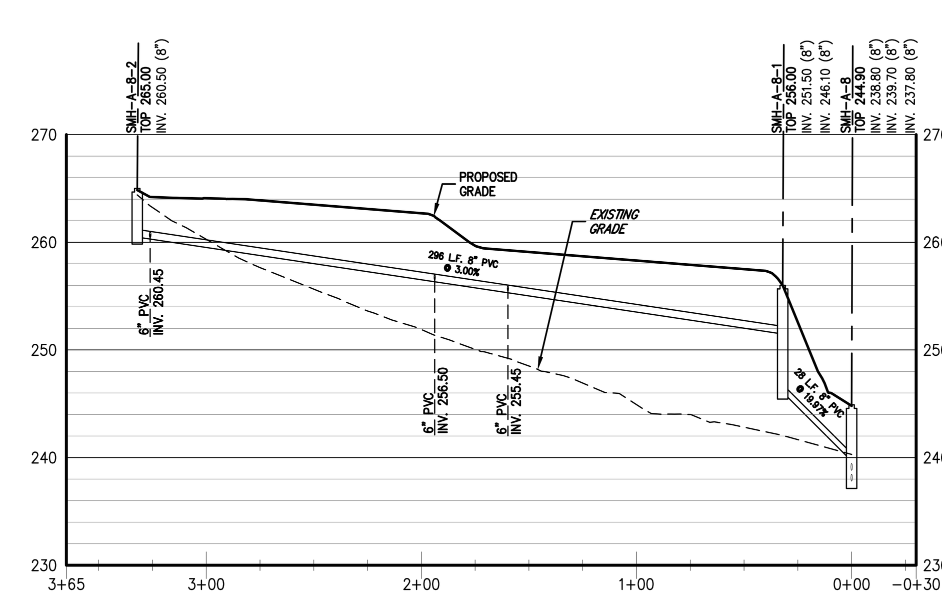

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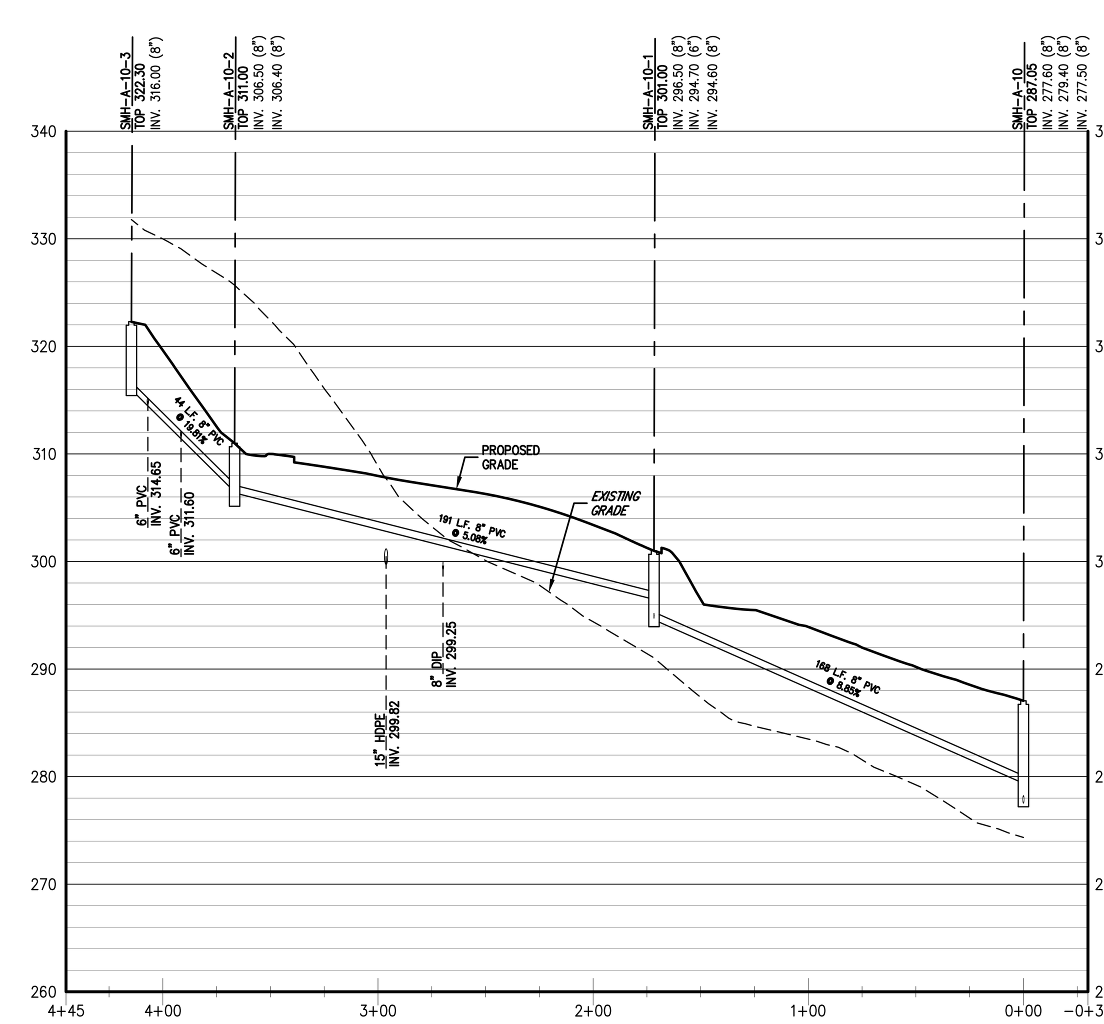

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HORIZONTAL SCALE: 1"=50'
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SANITARY SEWER PROFILES

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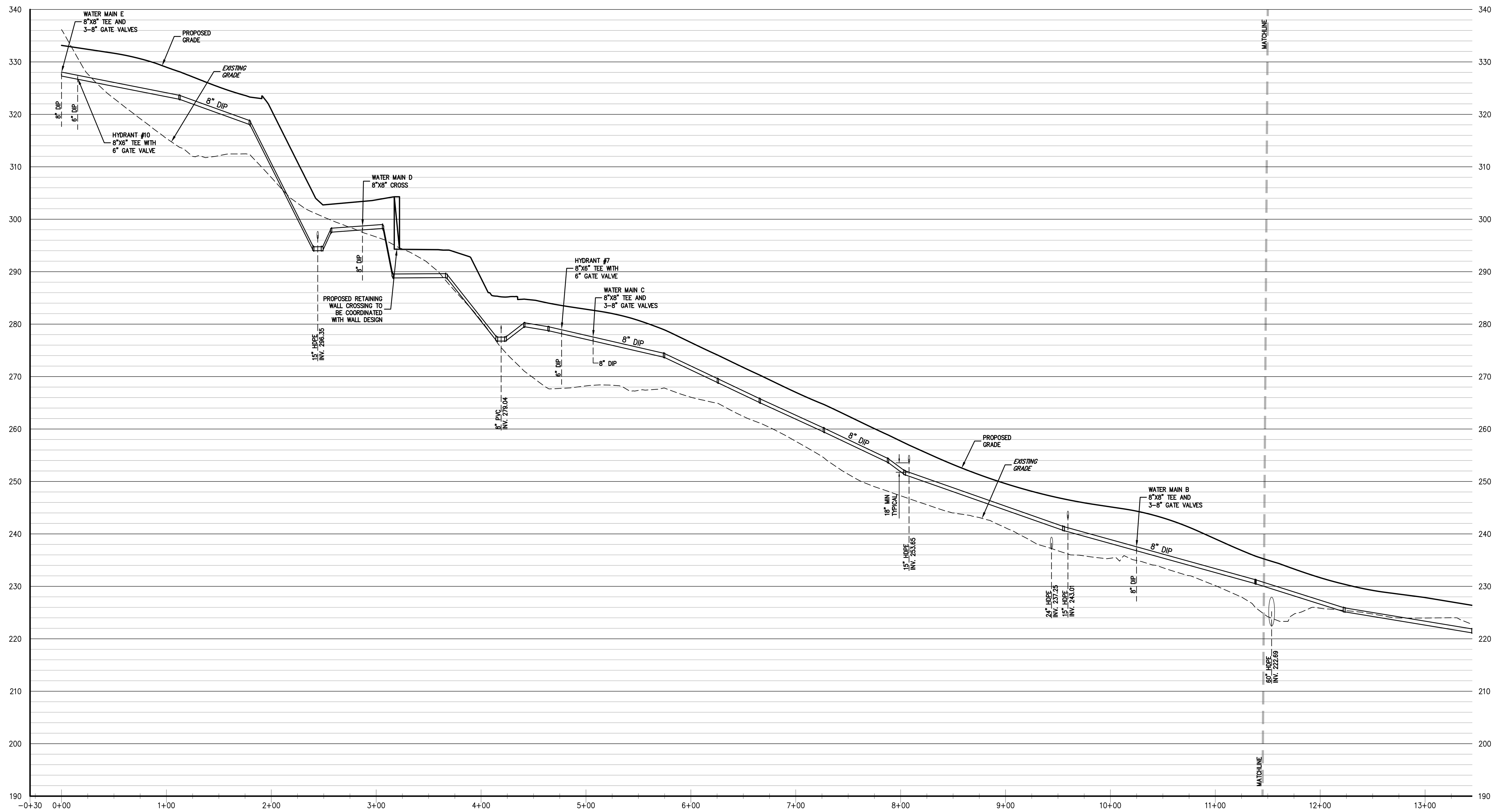

WATER MAIN A
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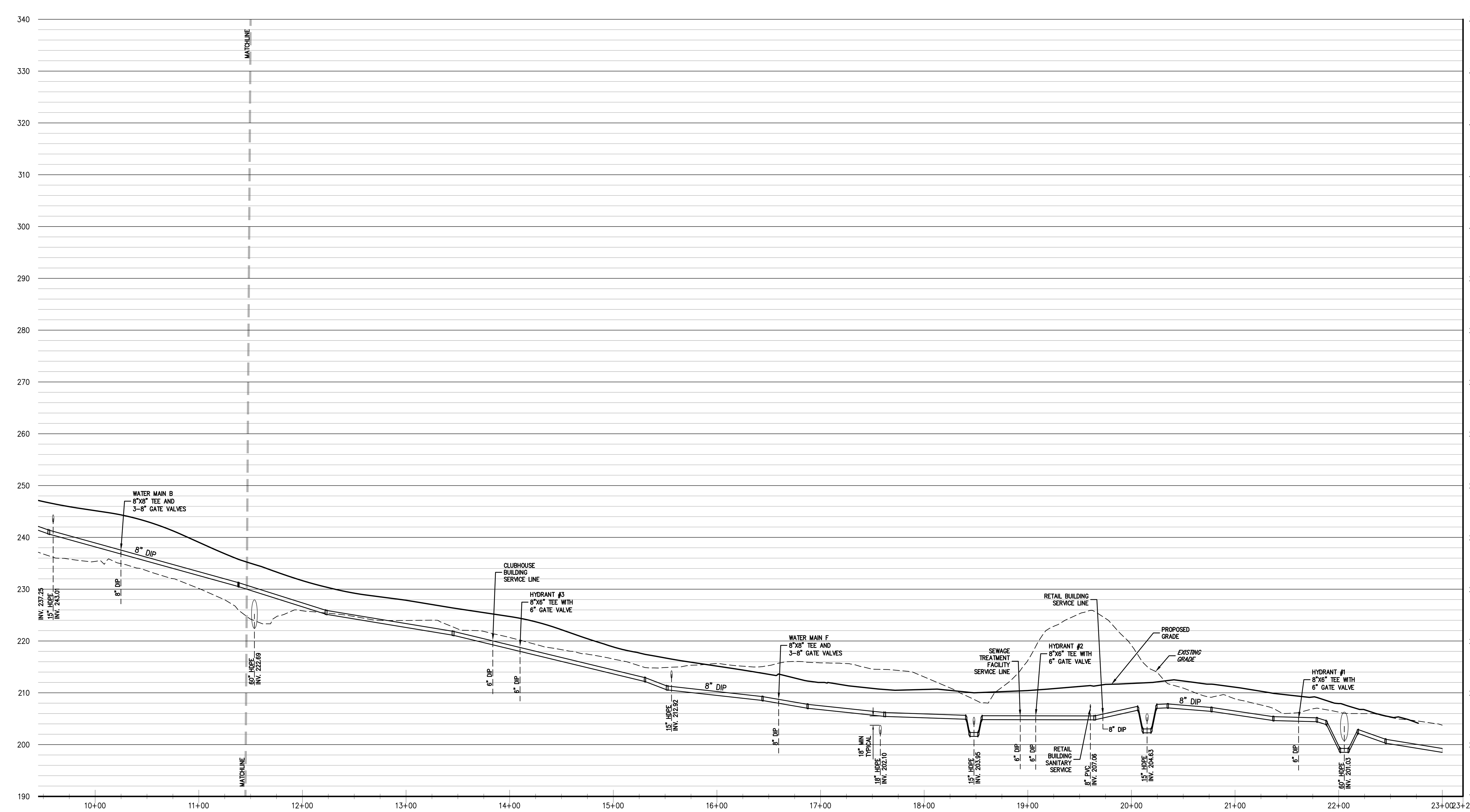
VERTICAL SCALE: 1"=10'



WATER MAIN A
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'

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WATER MAIN PROFILES

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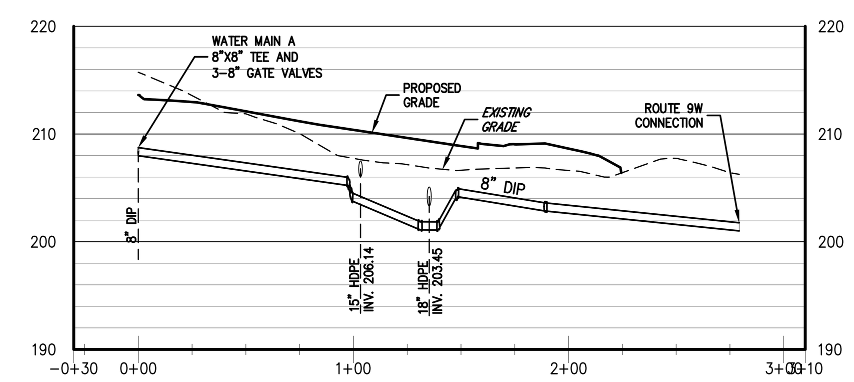
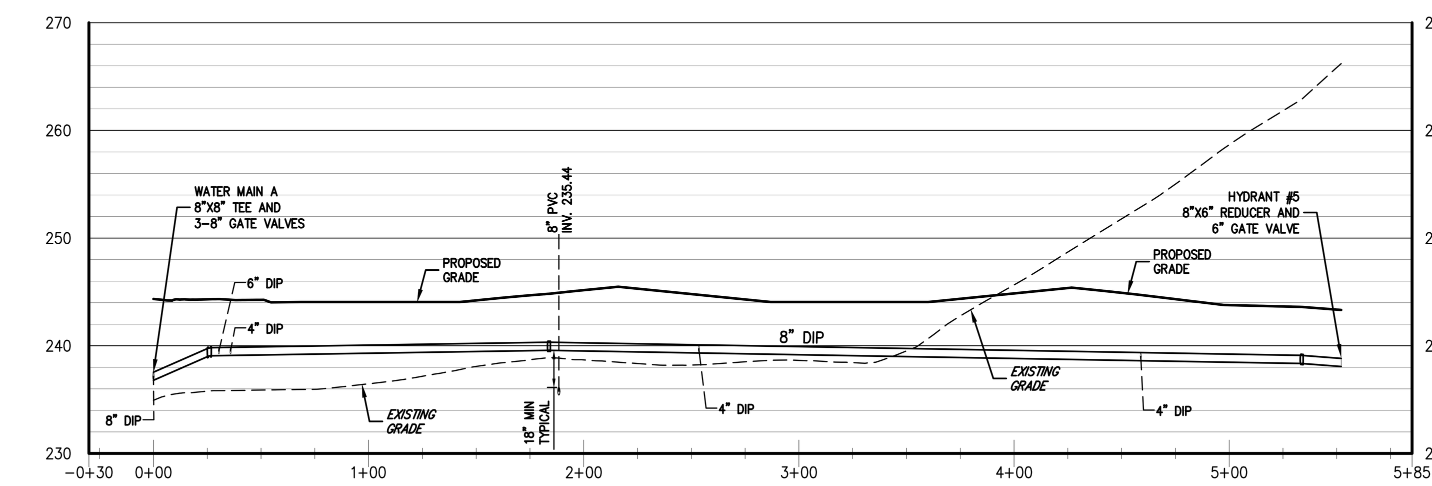
Drawing No:	C-330



WATER MAIN F
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'



WATER MAIN B
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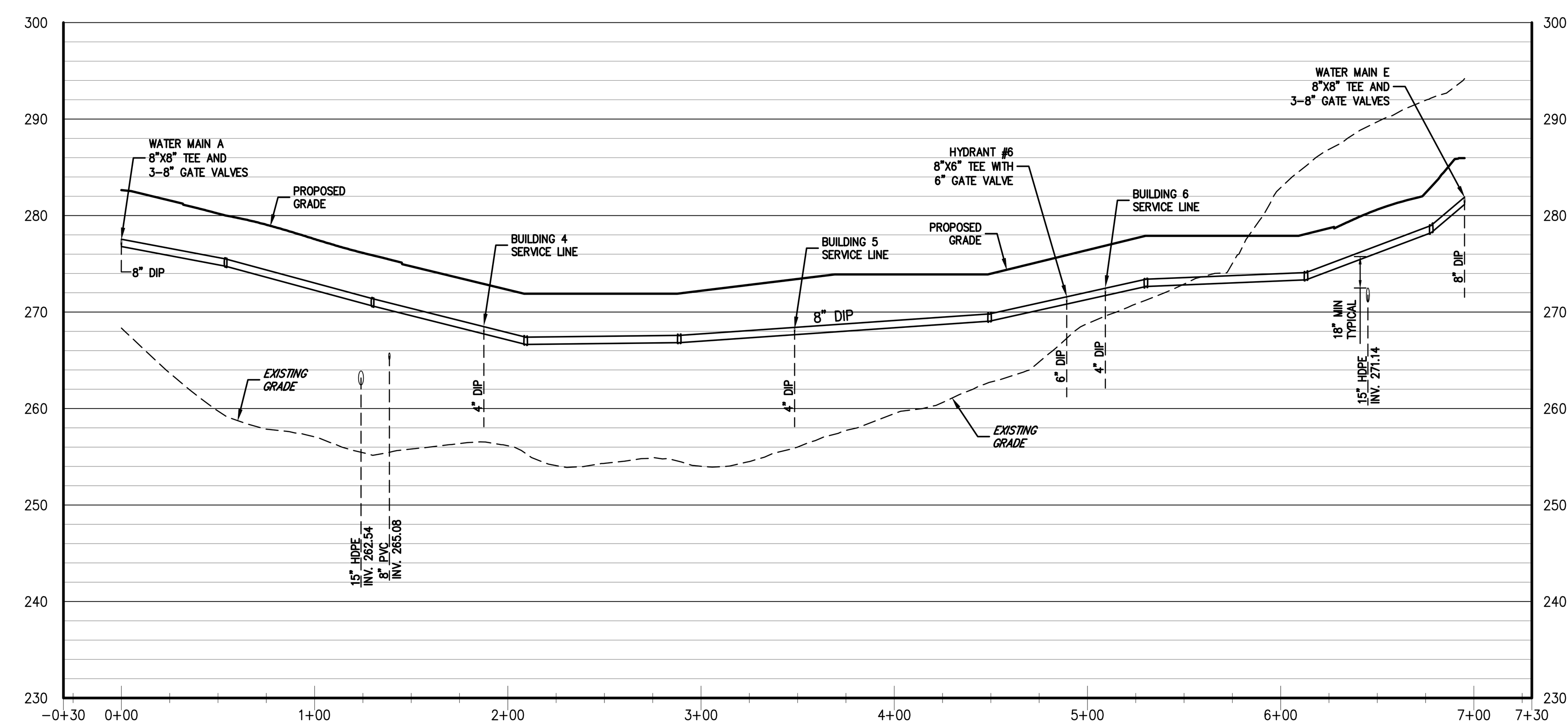
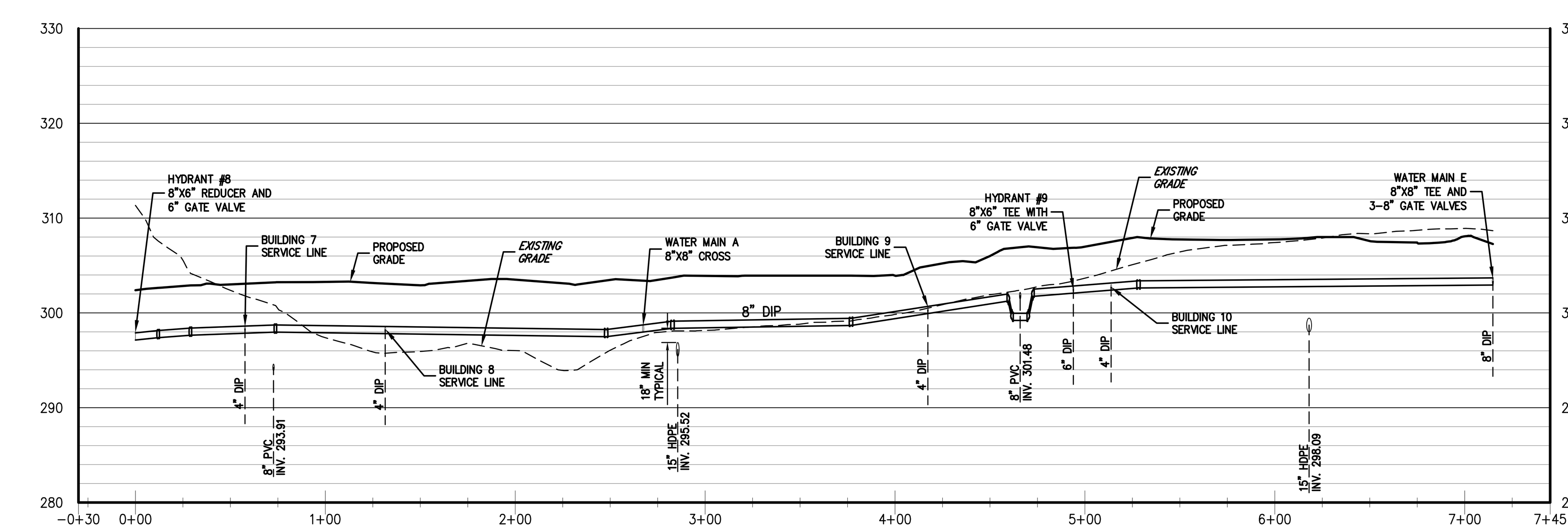
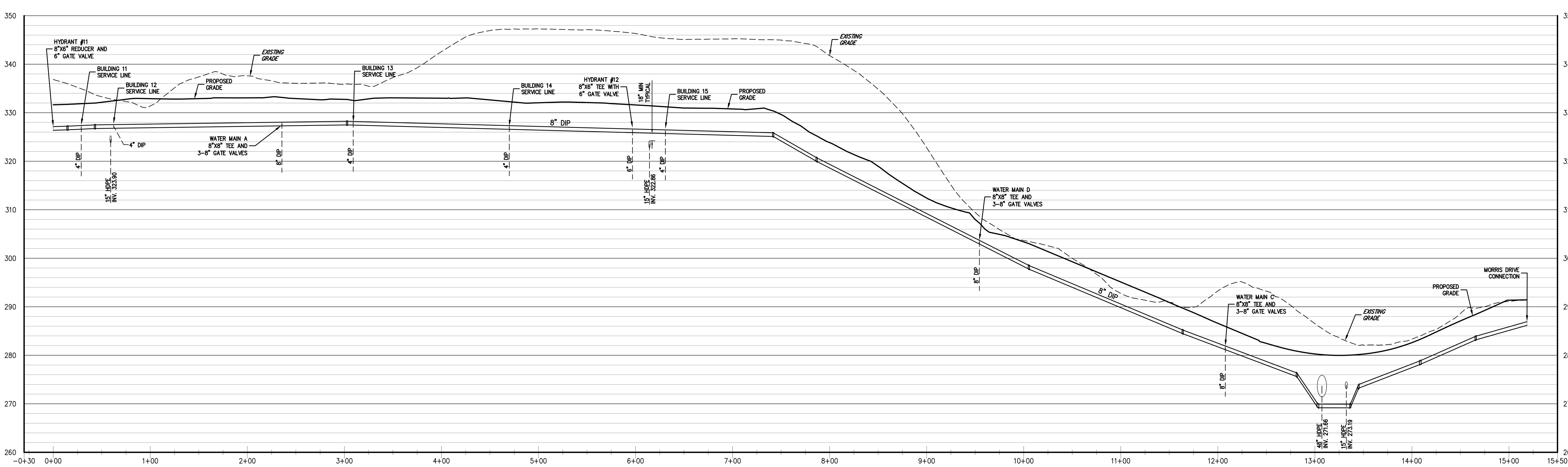
VERTICAL SCALE: 1"=10'



WATER MAIN C
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'



WATER MAIN D
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'



WATER MAIN E
HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'

No.	Revision	Date	By
1.	PLANNING BOARD SUBMISSION	06/22/2021	BMS

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WATER MAIN PROFILES

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Drawn: BMS		Approved: JS	
Scale: AS SHOWN			
Date: 03/19/2021			
Project No: 17088			
17088-SITE	WATER-2	UTIL.scr	

Drawing No: C-331

NOT FOR CONSTRUCTION

NOTES:

1. EXISTING CONDITIONS DEPICTED ON THIS PLAN HAVE BEEN TAKEN FROM SURVEY TITLED, "SURVEY OF PROPERTY," PREPARED BY JMC, LAST REVISED 11/19/2020.
2. THIS PLAN IS FOR TEMPORARY EROSION AND SEDIMENT CONTROL INFORMATION ONLY.
3. PRIOR TO BEGINNING ANY CLEARING, GRUBBING OR EXCAVATION, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL THE PLANS AND SPECIFICATIONS. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED. FINAL STABILIZATION OF LANDSCAPED AREAS SHALL BE IN ACCORDANCE WITH THE LANDSCAPE PLAN.
4. THE CONTRACTOR SHALL INSPECT AND MAINTAIN ON-SITE EROSION AND SEDIMENT CONTROL MEASURES ON A DAILY BASIS. ALL COLLECTED SEDIMENT WITHIN SEDIMENT BARRIERS SHALL BE REMOVED PERIODICALLY AS REQUIRED TO MAINTAIN THE FUNCTION OF THE SEDIMENT BARRIERS. ALL SEDIMENT COLLECTED SHALL BE RESPREAD ON-SITE WITHIN STABILIZED AREAS AS DIRECTED BY THE OWNERS REPRESENTATIVE.
5. THE CONTRACTOR SHALL INSPECT DOWNSTREAM CONDITIONS FOR EVIDENCE OF SEDIMENTATION ON A WEEKLY BASIS, AFTER EACH RAINSTORM, AND AS MAY BE REQUIRED OR DIRECTED BY ALL APPLICABLE APPROVALS AND PERMITS. THE CONTRACTOR SHALL IMMEDIATELY PROVIDE A WRITTEN REPORT ON FINDINGS OF SEDIMENT IN DOWNSTREAM AREAS TO ALL AUTHORITIES HAVING JURISDICTION AND MAKE REPAIRS AS REQUIRED OR DIRECTED.
6. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR AS REQUIRED/WARRANTED BY FIELD CONDITIONS AND AS DIRECTED BY THE OWNERS REPRESENTATIVE, JMC, AND/OR ANY AUTHORITY HAVING JURISDICTION.
7. STOCKPILING OF CONSTRUCTION MATERIAL SHALL BE PLACED ON-SITE IN THE AREA DESIGNATED ON THIS PLAN OR AS APPROVED BY THE OWNERS REPRESENTATIVE. STOCKPILED EXCAVATED MATERIAL SHALL HAVE TWO ROWS OF SILT FENCE LOCATED AROUND ITS PERIMETER. ALL STOCKPILED MATERIAL SHALL BE MAINTAINED IN AN ORDERLY MANNER SO AS NOT TO IMPEDE ON PEDESTRIAN AND/OR VEHICULAR TRAFFIC CIRCULATION ROUTES.
7. DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNERS REPRESENTATIVE.
8. ALL STORMWATER MANAGEMENT PRACTICES SHALL REMAIN UNDISTURBED AND BE PROTECTED FROM HEAVY MACHINERY TRAFFIC DURING CONSTRUCTION. HOWEVER DURING CONSTRUCTION OF THE PRACTICE THE CONTRACTOR SHALL MINIMIZE AND AVOID HEAVY MACHINERY TRAFFIC TO THE MAXIMUM EXTENT PRACTICABLE. THERE SHALL BE NO STORAGE OF MATERIALS WITHIN AREAS TO BE USED FOR STORMWATER MANAGEMENT PRACTICES. THE CONTRACTOR SHALL INSTALL CONSTRUCTION FENCE AROUND THE PRACTICE TO DISCOURAGE VEHICLE TRAFFIC.
9. ALL EXPOSED SLOPES AND GRADED/DISTURBED AREAS, THAT WILL NOT BE FURTHER DISTURBED WITHIN 14 CALENDAR DAYS (7 DAYS FOR CONSTRUCTION SITES THAT EITHER DIRECTLY DISCHARGE TO ONE OF THE 303(d) SEGMENTS LISTED IN APPENDIX E OF THE GENERAL PERMIT OR ARE LOCATED WITHIN ONE OF THE WATERSHEDS LISTED IN APPENDIX C OF THE GENERAL PERMIT), SHALL BE TEMPORARILY SEEDED WITHIN 24 HOURS OF DISTURBANCE, IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) "EROSION AND SEDIMENT CONTROL GUIDELINES" AND THE ANSI A300 "BEST MANAGEMENT PRACTICES FOR TREE AND SHRUB PLANTING, TRANSPLANTING, MAINTENANCE AND CARE," PREPARED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA), LATEST EDITIONS, AS FOLLOWS:
   A. SEED MIXTURE AND RATE OF APPLICATION:
      A.1. IN SPRING, SUMMER OR EARLY FALL, SEED THE AREA WITH RYEGRASS (ANNUAL OR PERENNIAL) AT 30 POUNDS PER ACRES (APPROXIMATELY 0.7 POUNDS/1000 SQUARE FEET OR USE 1 POUND/1000 SQUARE FEET).
      A.2. IN LATE FALL OR EARLY WINTER, SEED THE AREA WITH CERTIFIED 'AROOSTOOK' WINTER RYE (CEREAL RYE) AT 100 POUNDS PER ACRE (2.5 POUNDS/1000 SQUARE FEET).
   B. APPLICATION SHALL BE UNIFORM BY MECHANICAL OR HYDROSEED METHODS.
   C. MULCH ALL SEEDED AREAS WITH STRAW AT A RATE OF 2 TONS PER ACRE (90 POUNDS PER 1,000 SQUARE FEET) SUCH THAT THE MULCH FORMS A CONTINUOUS BLANKET.
10. ALL EXPOSED SLOPES AND GRADED/DISTURBED AREAS, THAT WILL NOT BE FURTHER DISTURBED WITHIN 30 CALENDAR DAYS BUT LESS THEN 1 YEAR, SHALL BE TEMPORARILY SEEDED WITHIN 7 DAYS AFTER SUSPENSION OF GRADING, IN ACCORDANCE WITH THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION (CTDEP) "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" AND THE ANSI A300 "BEST MANAGEMENT PRACTICES FOR TREE AND SHRUB PLANTING, TRANSPLANTING, MAINTENANCE AND CARE," PREPARED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA), LATEST EDITIONS, AS FOLLOWS:
   A. FOR SEED MIXTURE AND RATE OF APPLICATION CONTRACTOR SHALL REFER TO FIGURE TS-2 IN THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
   B. APPLICATION SHALL BE UNIFORM BY MECHANICAL OR HYDROSEED METHODS. SEEDING RATES SHALL BE INCREASED BY 10% WHEN HYDROSEEDING.
   C. MULCH ALL SEEDED AREAS WITH STRAW AT A RATE OF 2 TONS PER ACRE (90 POUNDS PER 1,000 SQUARE FEET) SUCH THAT THE MULCH FORMS A CONTINUOUS BLANKET.
11. ALL EXPOSED SLOPES AND GRADED/DISTURBED AREAS, THAT WILL NOT BE FURTHER DISTURBED WITHIN A PERIOD OF 2-6 MONTHS OR NOT SCHEDULED FOR PERMANENT SEED WITHIN 60 CALENDAR DAYS, SHALL BE TEMPORARILY SEEDED WITHIN 24 HOURS OF DISTURBANCE, IN ACCORDANCE WITH THE NEW JERSEY STATE DEPARTMENT OF AGRICULTURE - STATE SOIL CONSERVATION COMMITTEE PUBLICATION "THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY" AND THE ANSI A300 "BEST MANAGEMENT PRACTICES FOR TREE AND SHRUB PLANTING, TRANSPLANTING, MAINTENANCE AND CARE," PREPARED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA), LATEST EDITIONS, AS FOLLOWS:
   A. FOR SEED MIXTURE AND RATE OF APPLICATION CONTRACTOR SHALL REFER TO TABLE 7-2 "TEMPORARY VEGETATIVE STABILIZATION GRASSES, SEEDING RATES, DATES AND DEPTH."
   B. APPLICATION SHALL BE UNIFORM BY MECHANICAL OR HYDROSEED METHODS.
   C. MULCH ALL SEEDED AREAS WITH STRAW AT A RATE OF 2 TONS PER ACRE (90 POUNDS PER 1,000 SQUARE FEET) SUCH THAT THE MULCH FORMS A CONTINUOUS BLANKET.
3. ALL SEEDED AREAS SHALL BE FERTILIZED, RESEEDED, AND MULCHED AS NECESSARY TO MAINTAIN VIGOROUS, DENSE VEGETATIVE COVER.
4. TEMPORARY SEED MIXTURES SHALL NOT BE PLACED ON AREAS WHERE FINAL GRADE HAS BEEN ESTABLISHED AND TOPSOIL HAS BEEN PLACED UNLESS OTHERWISE DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT.

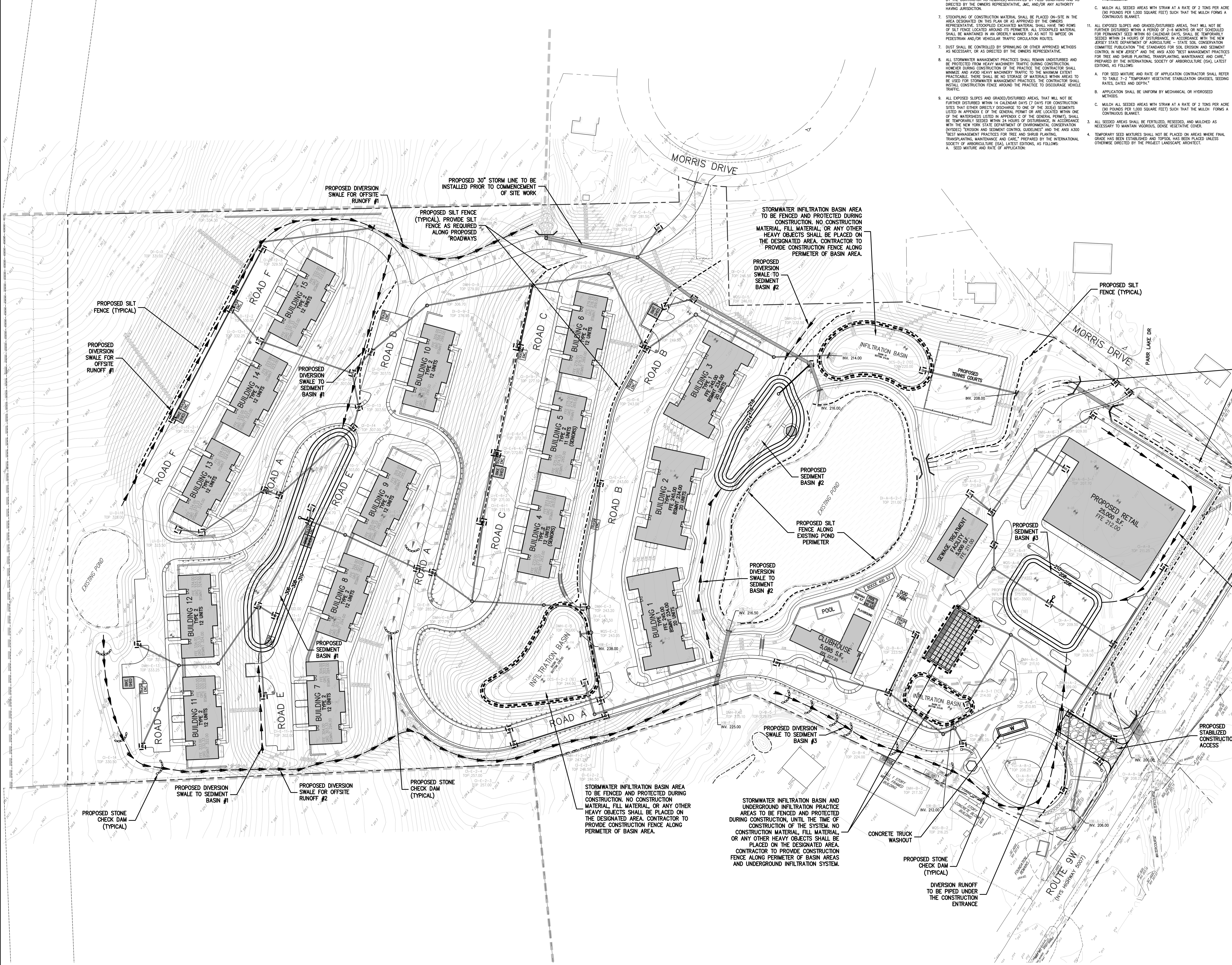
LEGEND

PROPOSED INLET PROTECTION
PROPOSED STONE CHECK DAM
PROPOSED CONSTRUCTION FENCE
PROPOSED SILT FENCE
PROPOSED BALE EROSION CHECKS
PROPOSED LIMIT OF DISTURBANCE
PROPOSED STABILIZED CONSTRUCTION ACCESS
PROPOSED STOCKPILE AREA
PROPOSED TEMPORARY SWALE
308 PROPOSED TEMPORARY SEDIMENT BASIN
TEMPORARY RISER & ANTI-VORTEX DEVICE
W CONCRETE TRUCK WASHOUT

SEQUENCE OF CONSTRUCTION:

CONSTRUCTION SHALL BE SEQUENCED IN SUCH A MANNER THAT ANY AREA WHICH IS DISTURBED SHALL FIRST BE PROTECTED WITH SEDIMENT EROSION CONTROLS AS INDICATED ON THIS PLAN. PARTICULAR REQUIREMENTS ARE GIVEN AS FOLLOWS:

1. DEMOLITION OF EXISTING BUILDINGS AS REQUIRED.
2. PROPOSED RELOCATION OF STREAM TO BE ESTABLISHED PRIOR TO ANY SITE DISTURBANCE RELATED TO THE RETAIL BUILDING AND PARKING AREA.
3. PRIOR TO ANY SITE DISTURBANCE, CONTRACTOR TO ESTABLISH OFFSITE DIVERSION SWALES #1 AND #2. CONTRACTOR TO INSTALL 30" STORM LINE TO REROUTE EXISTING STREAM (STORM NETWORK C-1 THROUGH C-6).
4. INSTALLATION OF SEDIMENT AND EROSION CONTROL MEASURES AS INDICATED ON THIS PLAN.
5. CLEAR UNDEVELOPED PORTION OF PROPERTY WHICH IS TO BE DEVELOPED.
6. STRIP AND STOCKPILE TOPSOIL.
7. BEGIN BUILDING AND PARKING LOT CONSTRUCTION, ROUGH GRADING.
8. INSTALL STORM DRAIN SYSTEM COMPLETE (IMMEDIATELY INSTALL HAYBALE FILTERS ON ALL INLETS).
9. INSTALL PUBLIC UTILITIES (GAS, ELECTRIC AND TELEPHONE) AS REQUIRED.
10. INSTALL CONCRETE AND ASPHALT CONCRETE PAVEMENT COMPLETE.
11. FINISH GRADING, REDISTRIBUTE TOPSOIL AND ESTABLISH VEGETATION AND/OR LANDSCAPING.
12. CLEAN PAVEMENTS AND STORM DRAIN SYSTEM OF ALL ACCUMULATED SEDIMENT IN CONJUNCTION WITH THE REMOVAL OF ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES.
13. COMPLETE SITE AND BUILDING CONSTRUCTION.



No.	Revision	Date	By
1.	PLANNING BOARD SUBMISSION	03/19/2021	BMS
2.	PLANNING BOARD SUBMISSION	06/22/2021	BMS

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EROSION & SEDIMENT CONTROL PLAN

OVERLOOK FARMS A FARRELL COMMUNITY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

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Drawn: BMS Approved: JS
Scale: 1" = 50'
Date: 03/19/2021
Project No: 17088
Drawing No: C-400

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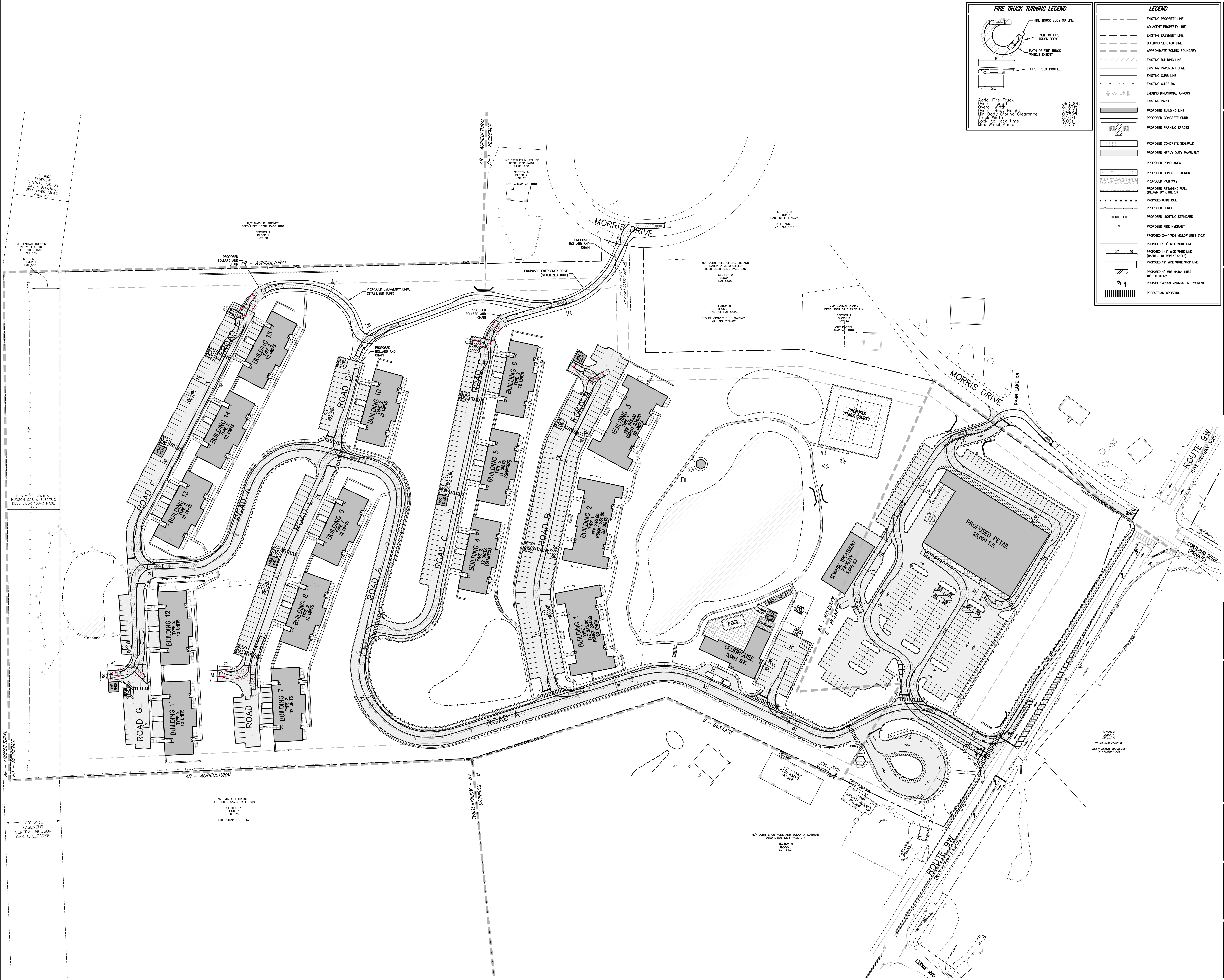

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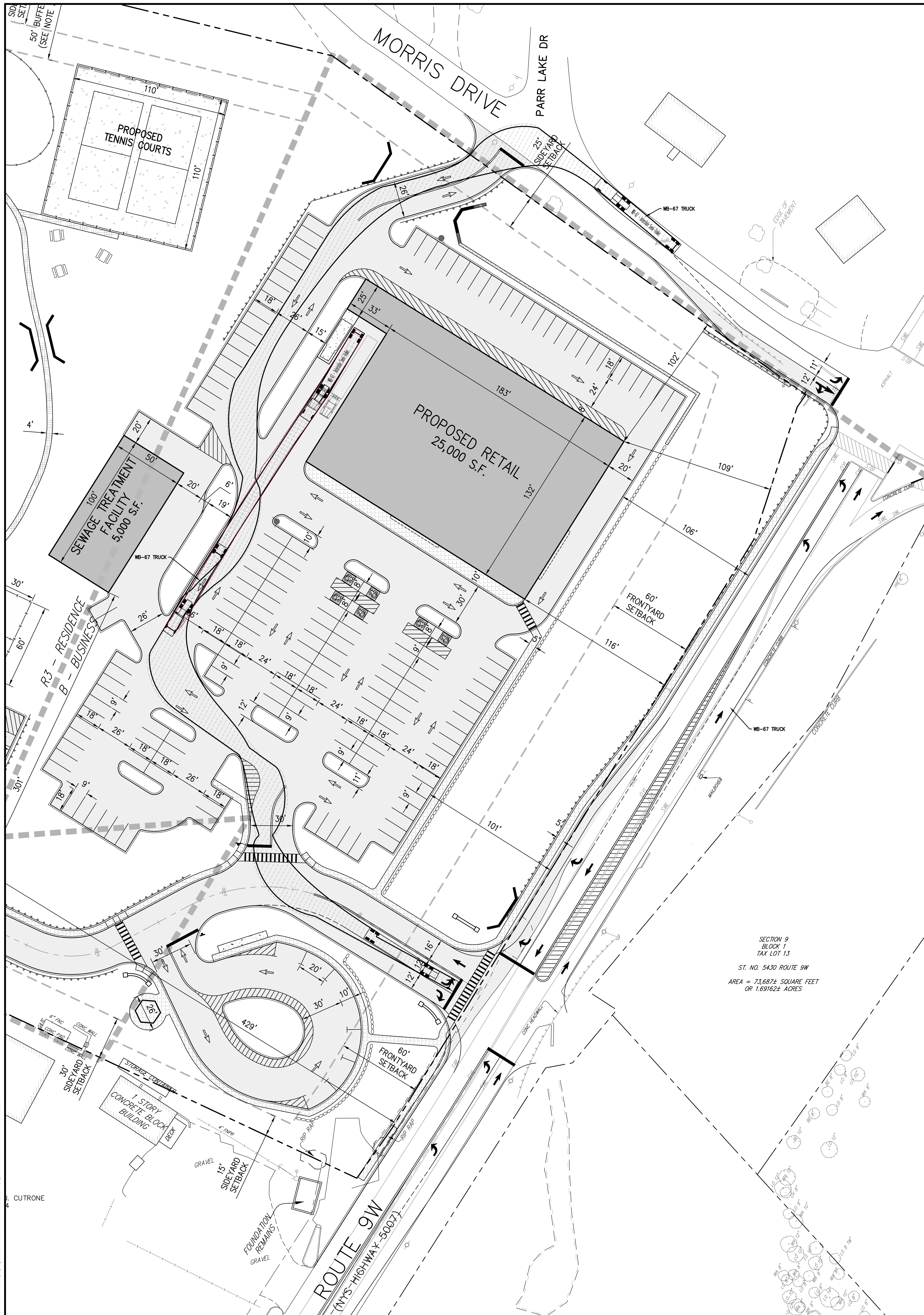
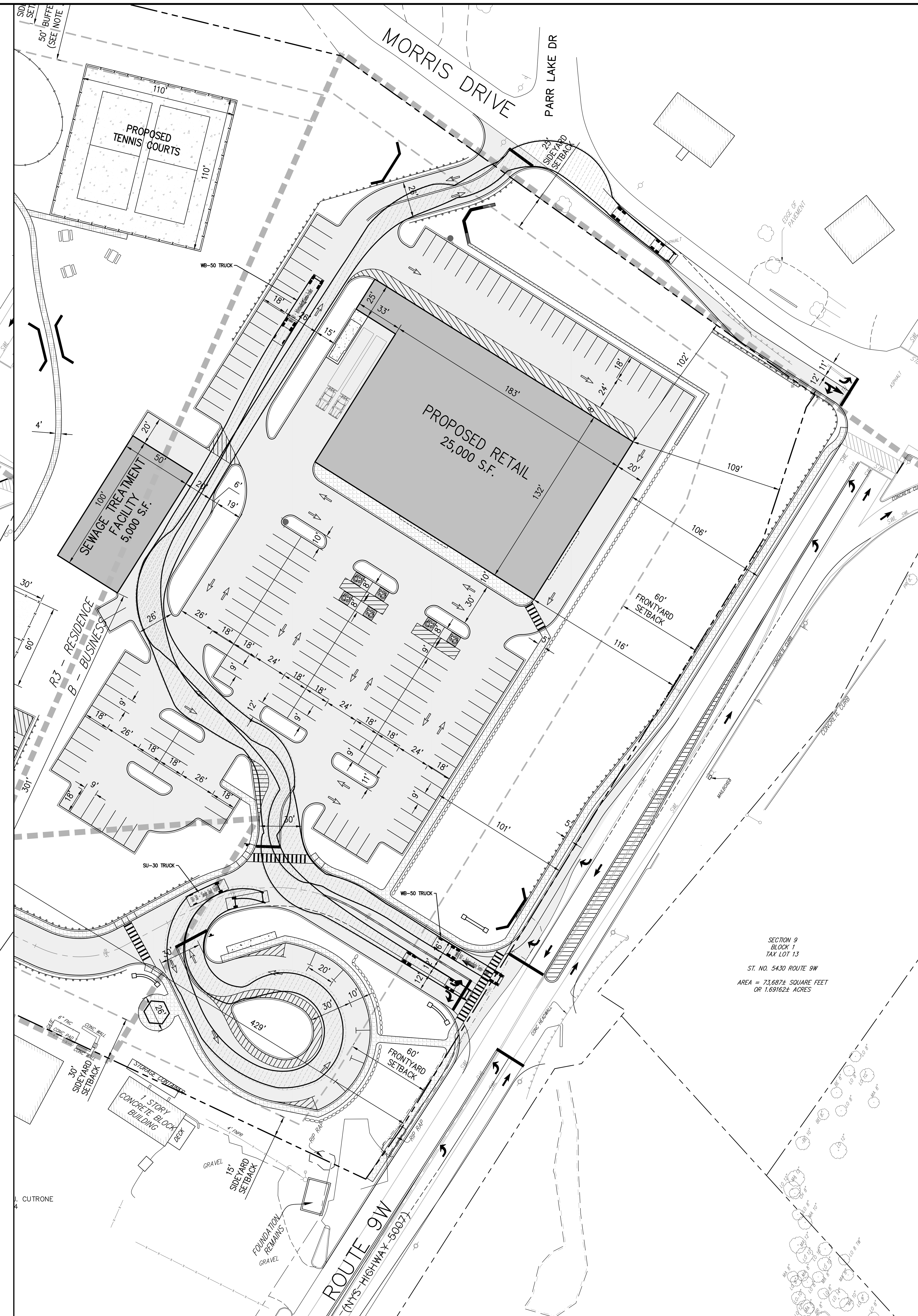
FIRE TRUCK ACCESS PLAN

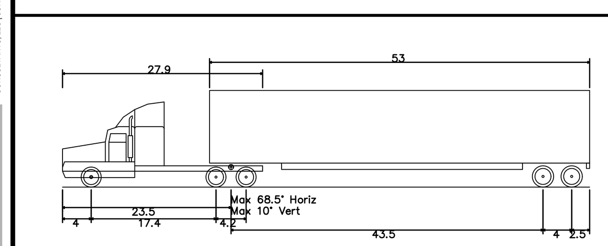
OVERLOOK FARMS A FARRELL COMMUNITY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

Drawn: BMS	Approved: JS
Scale: 1" = 50'	
Date: 03/19/2021	
Project No: 17088	
17088-SITE	FIRETRUCK	FIRETRUCK.scr
Drawing No: C-500	

NOT FOR CONSTRUCTION

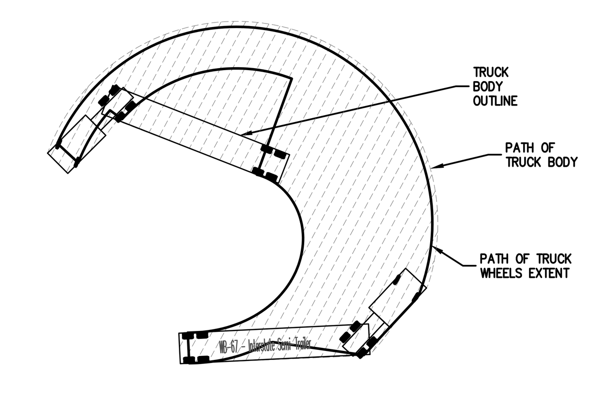


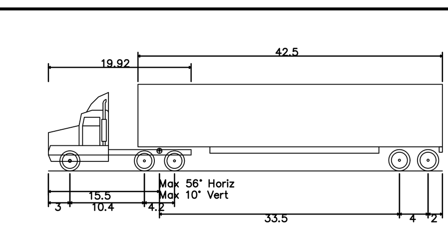




WB-67 - Interstate Semi-Trailer	
Overall Length	73.501ft
Overall Width	8.500ft
Overall Body Height	13.500ft
Min Body Ground Clearance	1.334ft
Max Track Width	8.500ft
Lock-to-lock time	6.00s
Max Steering Angle (Virtual)	28.40°

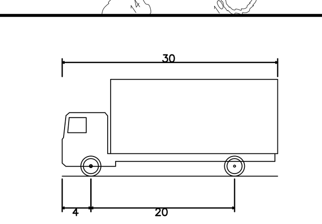
WB-67 TRUCK
RETAIL LOADING





WB-50 - Intermediate Semi-Trailer	
Overall Length	55.000ft
Overall Width	8.500ft
Overall Body Height	12.052ft
Min Body Ground Clearance	1.334ft
Max Track Width	8.500ft
Lock-to-lock time	6.00s
Max Steering Angle (Virtual)	17.90°

WB-50 TRUCK
SEWAGE FACILITY ROUTING
&
SU-30 TRUCK
MAIL/DROP OFF AREA ROUTING



SU-30 - Single Unit Truck	
Overall Length	30.000ft
Overall Width	8.000ft
Overall Body Height	13.500ft
Min Body Ground Clearance	1.367ft
Track Width	8.000ft
Lock-to-lock time	5.00s
Max Steering Angle (Virtual)	31.80°

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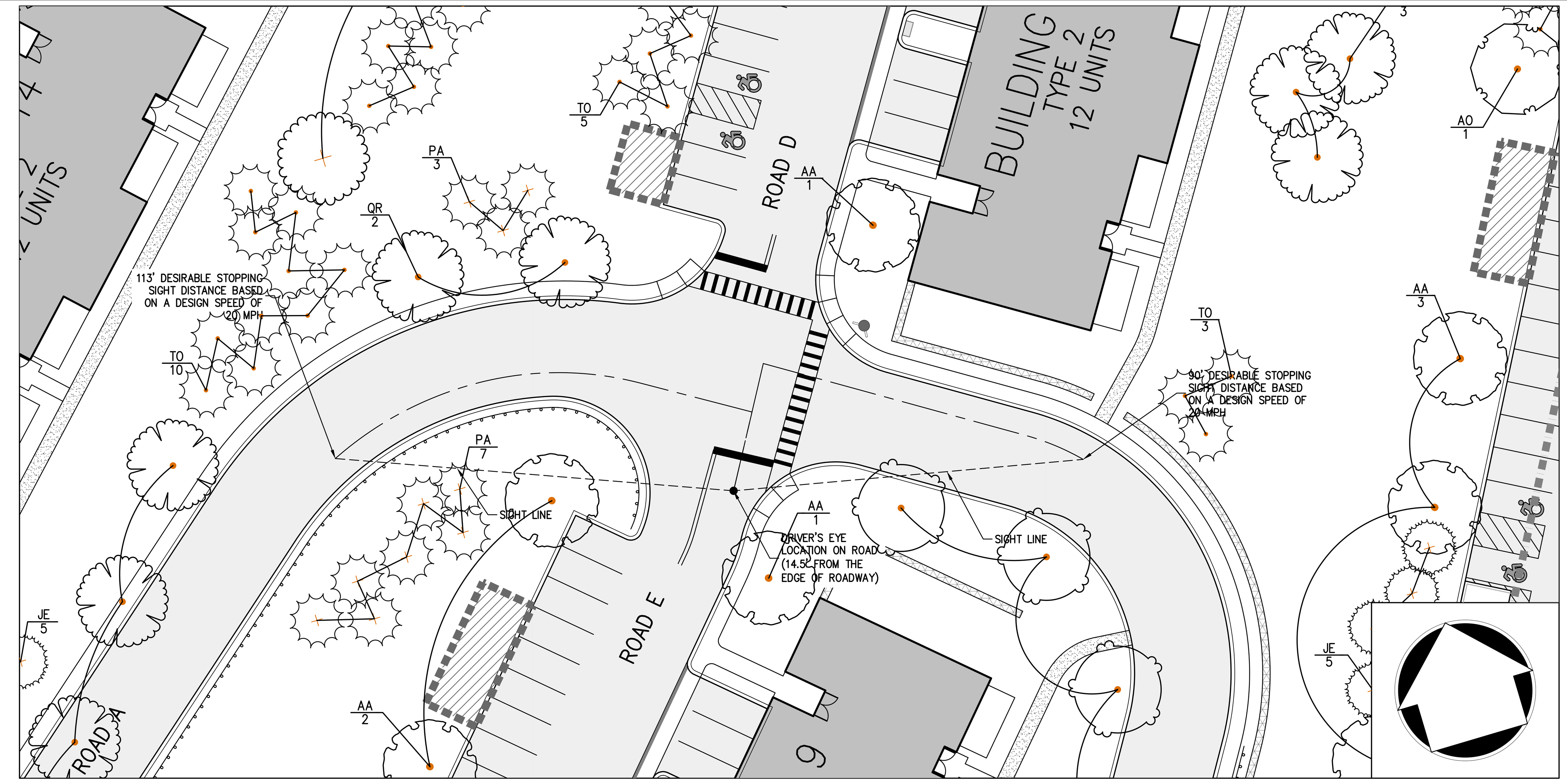
TRUCK ROUTING PLAN

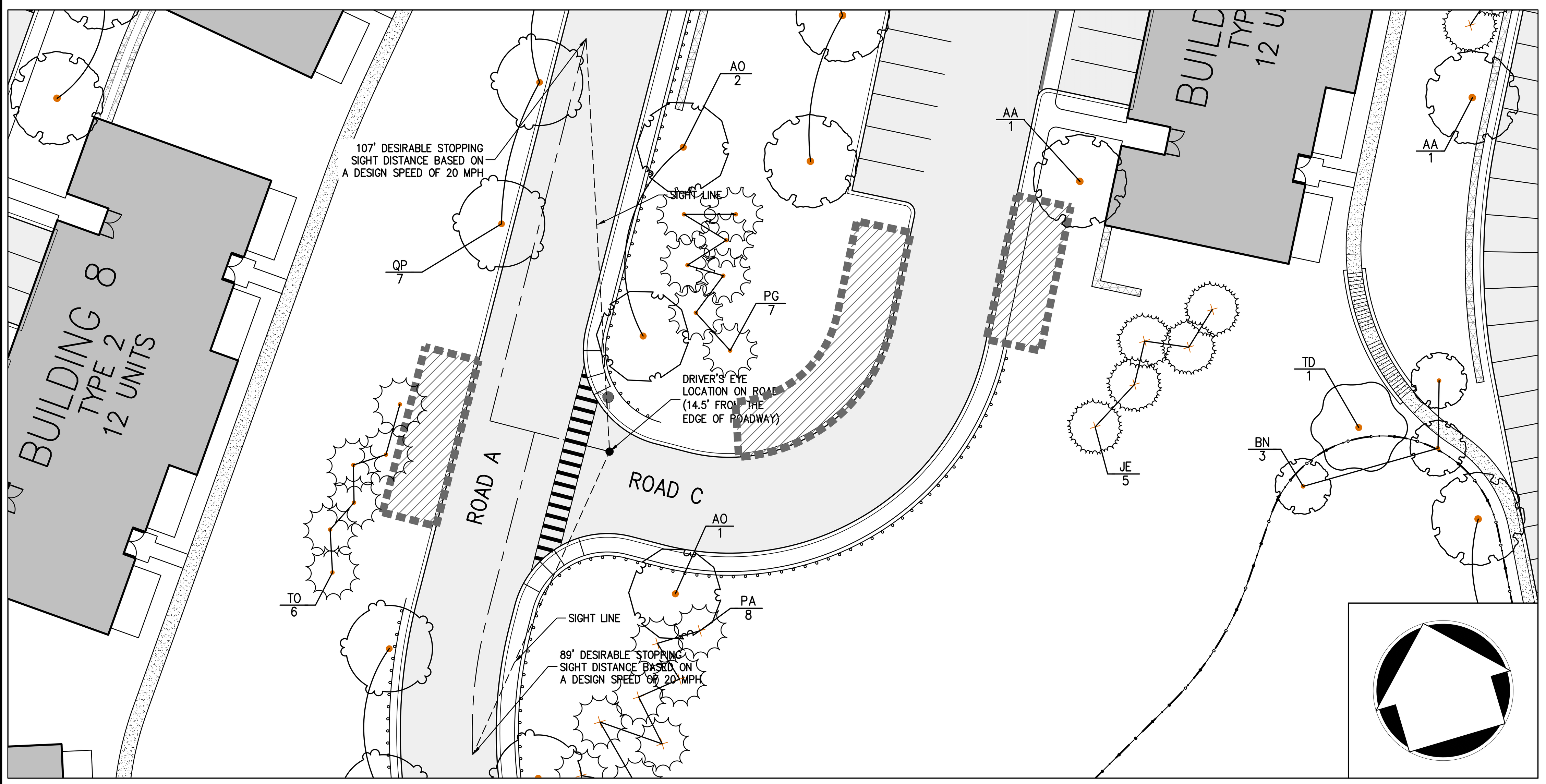
OVERLOOK FARMS A FARRELL COMMUNITY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

Drawn:	BMS	Approved:	JS
Scale:	1" = 30'		
Date:	03/19/2021		
Project No:	17088		
17088-SITE	TRUCK	TRUCK.scr	
Drawing No:	C-510		

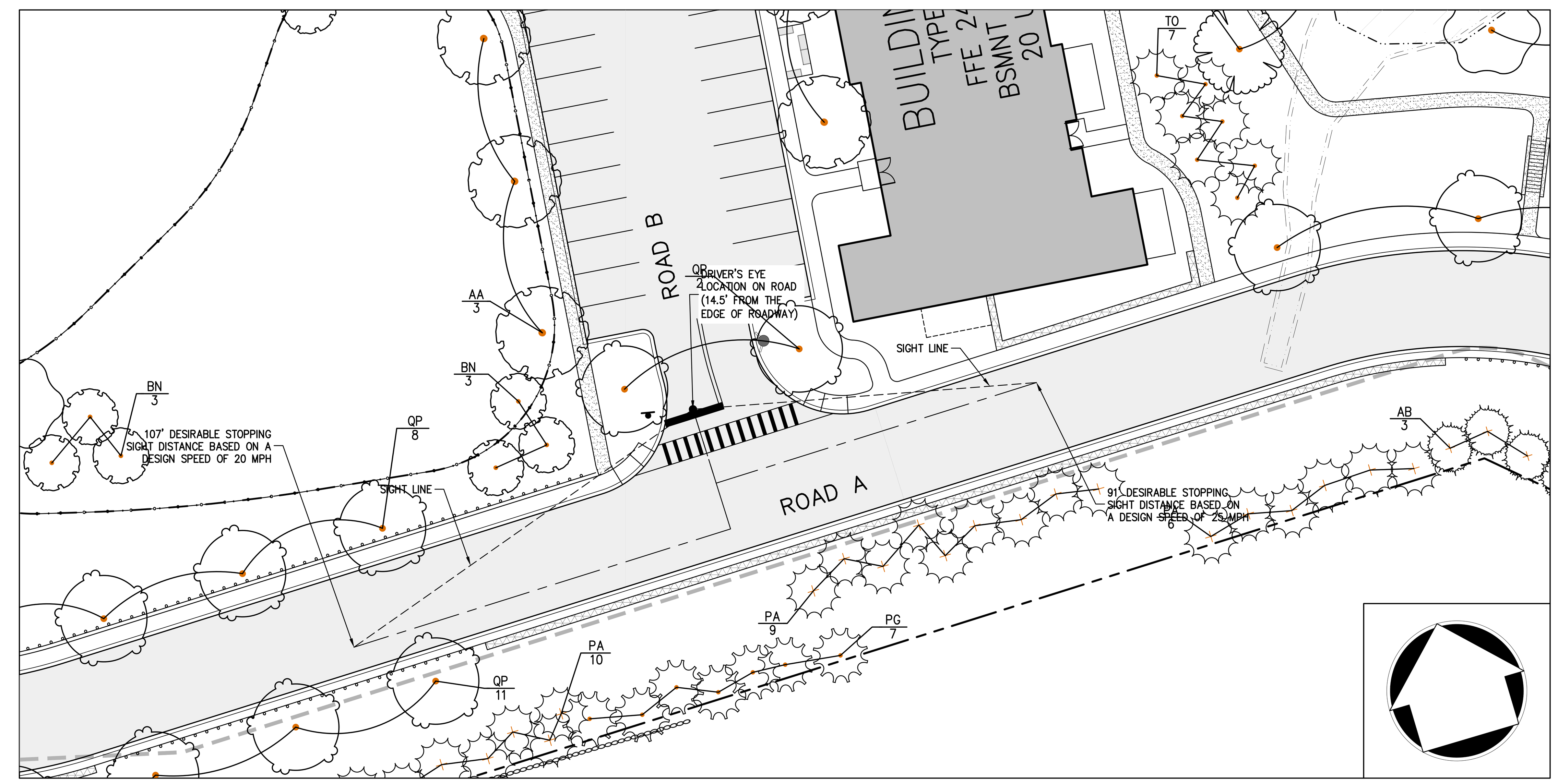
INT. 1 - ROAD A & ROAD D STOPPING SIGHT DISTANCE
(1" = 20')



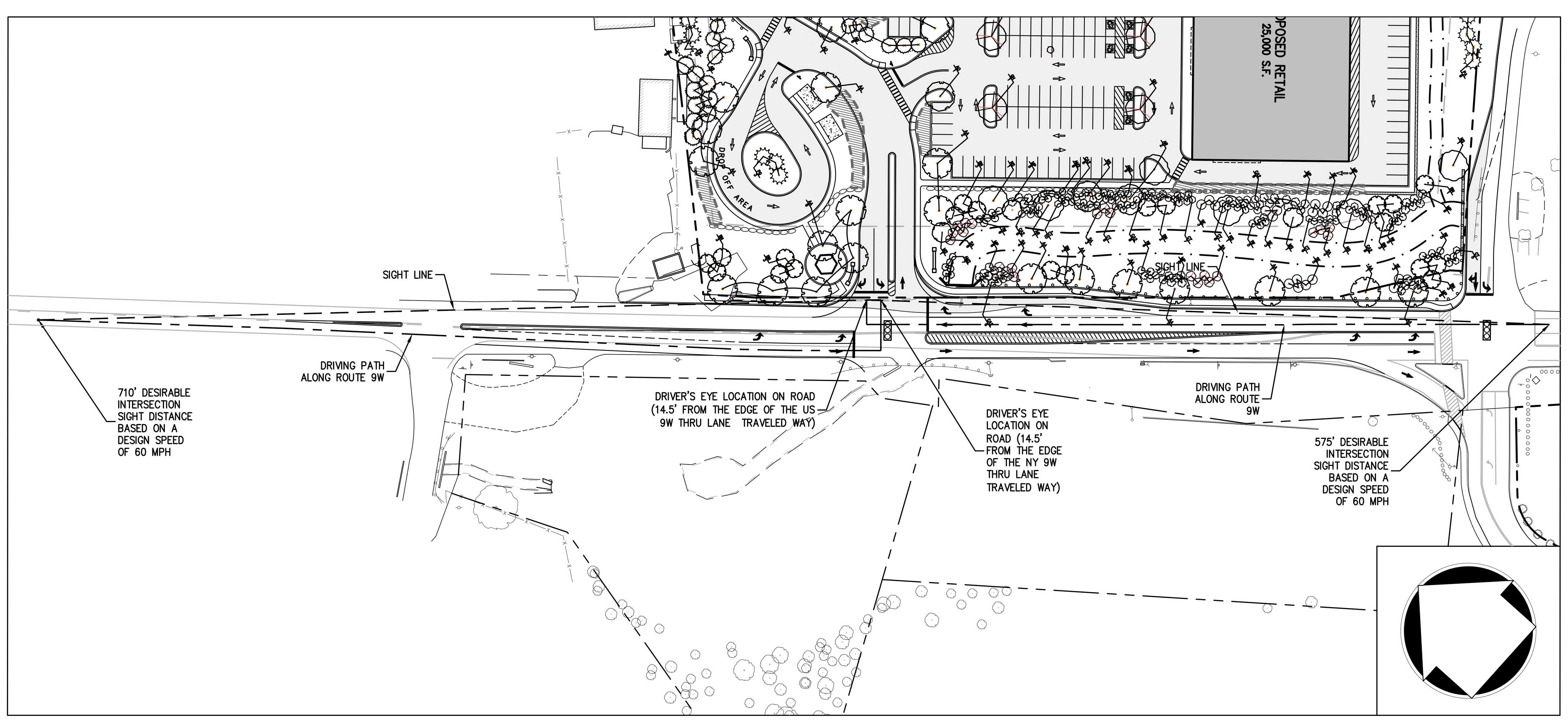
INT. 2 - ROAD A & ROAD E STOPPING SIGHT DISTANCE
(1" = 20')



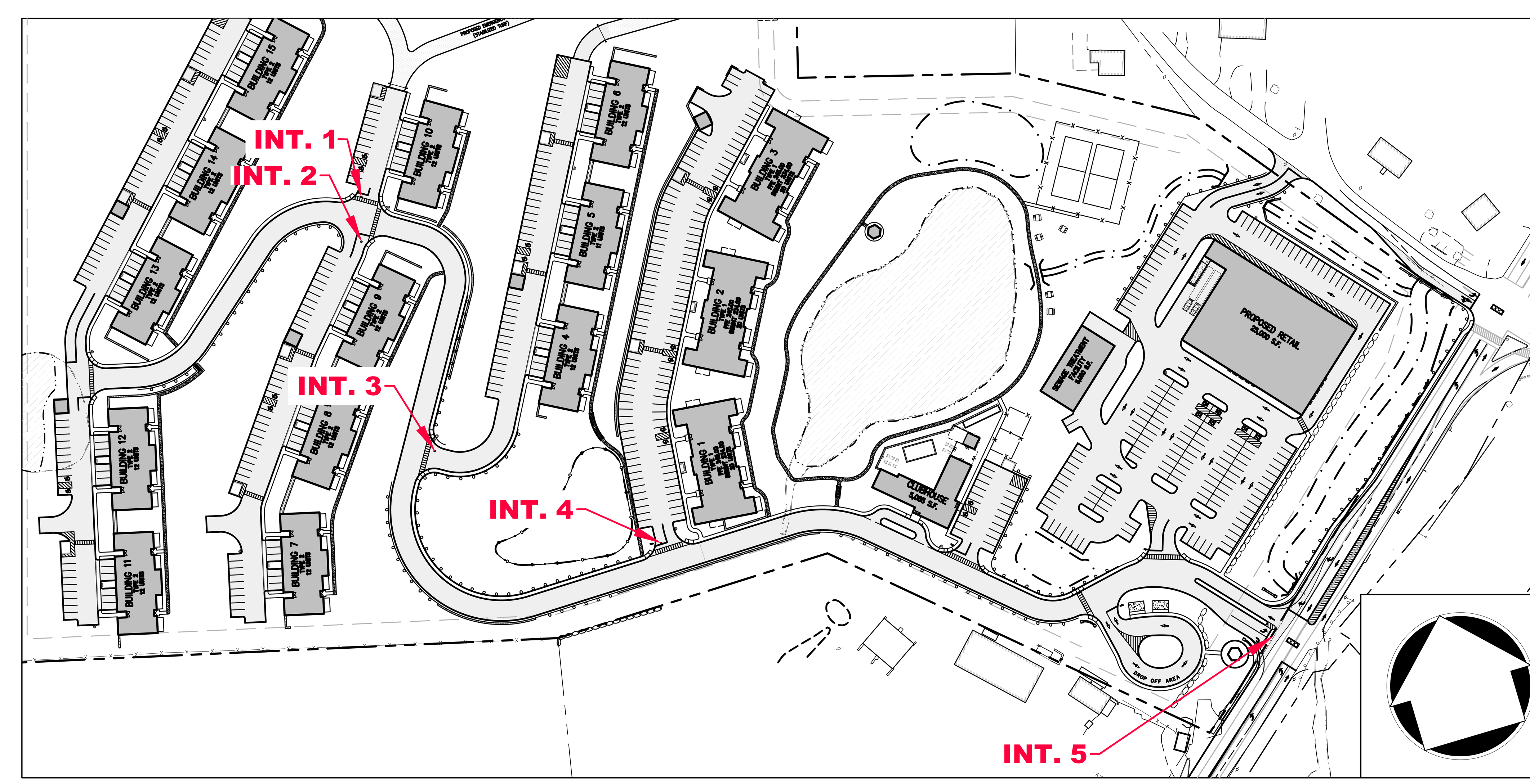
INT. 3 - ROAD A & ROAD C STOPPING SIGHT DISTANCE
(1" = 20')



INT. 4 - ROAD A & ROAD B STOPPING SIGHT DISTANCE
(1" = 20')



INT. 5 - ROUTE 9W & SITE DRIVEWAY INTERSECTION SIGHT DISTANCE
(1" = 60')



SIGHT DISTANCE KEY MAP
(1" = 100')

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1.	PLANNING BOARD SUBMISSION	03/19/2021	BMS
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SIGHT DISTANCE ANALYSIS PLAN

OVERLOOK FARMS A FARRELL COMMUNITY
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Date: 03/19/2021	
Project No: 17088	
17088-SIGHT-DISTANCE	SIGHT-DISTANCE SIGHT-DISTANCE.scr
Drawing No: C-520	

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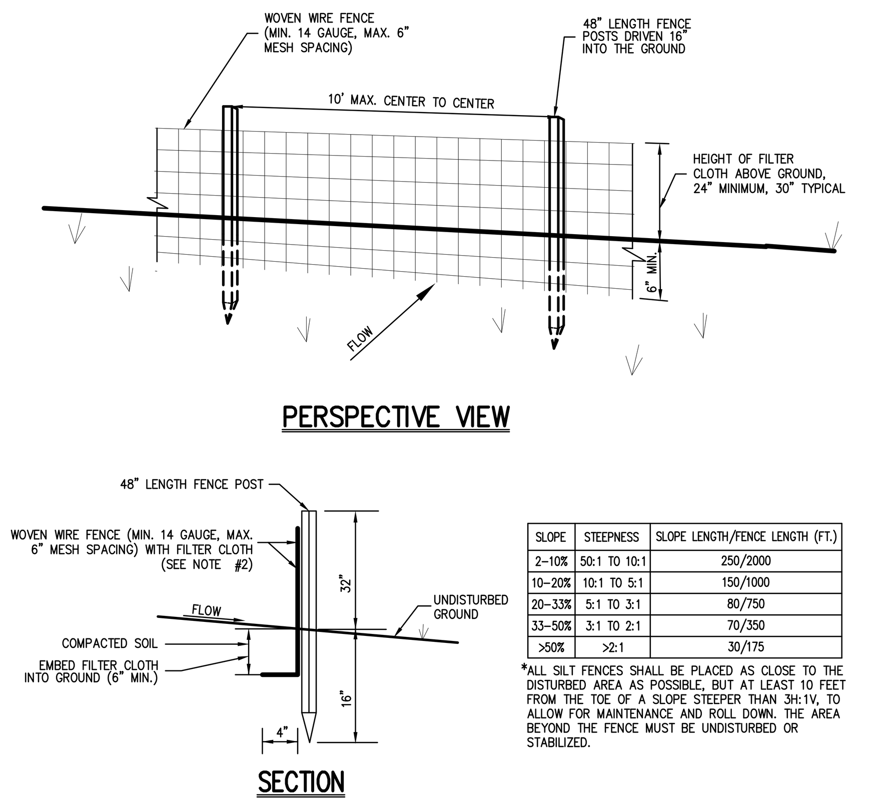


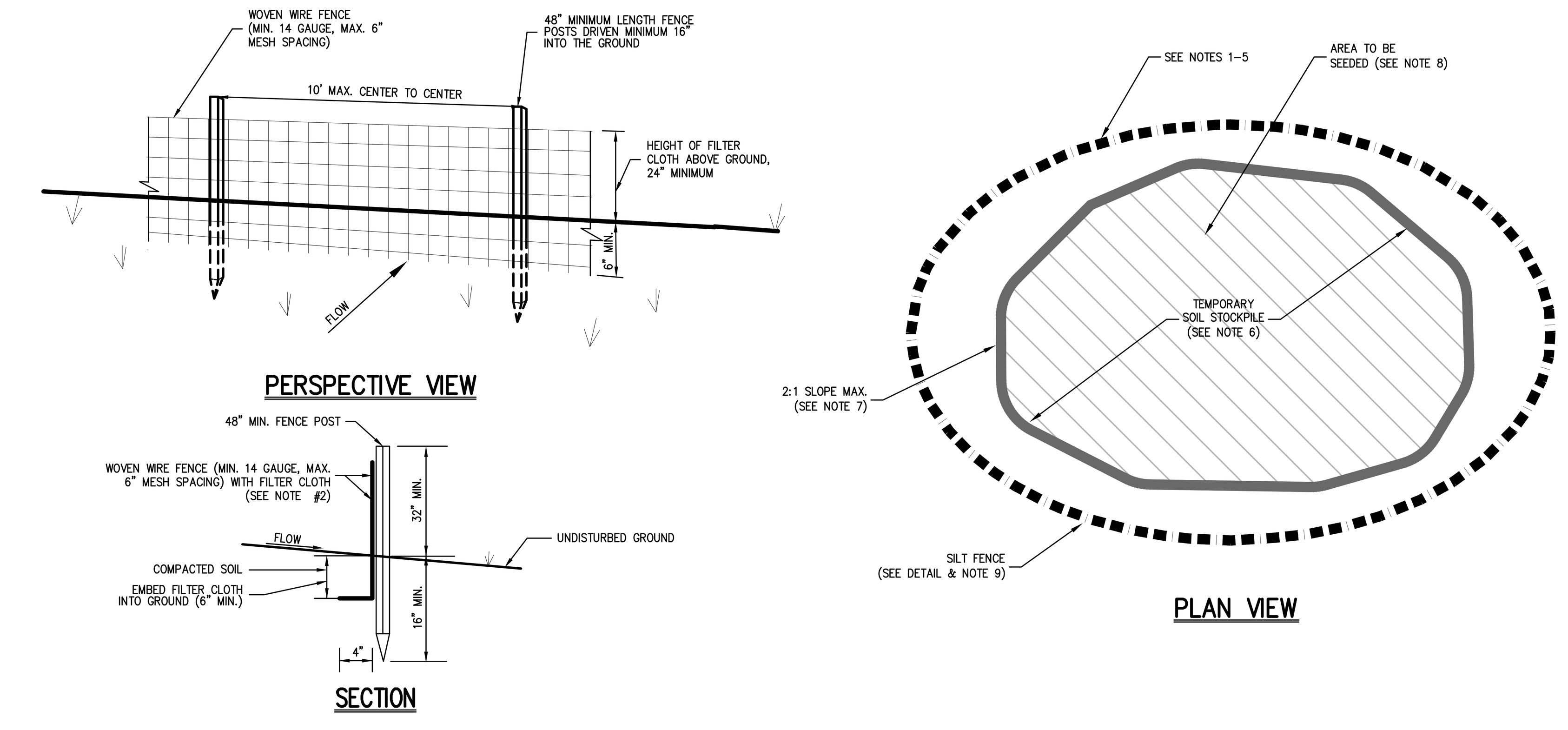
NOTES:

1. WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL, EITHER T OR U TYPE OR HARDWOOD.
2. FILTER CLOTH SHALL BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABLINKA T140N, OR APPROVED EQUAL.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED AND REPLACED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SLOPE	STEEPNESS	SLOPE LENGTH/FENCE LENGTH (FT.)
2-10%	50:1 TO 10:1	250/2000
10-20%	10:1 TO 5:1	150/1000
20-33%	5:1 TO 3:1	80/750
33-50%	3:1 TO 2:1	70/350
>50%	>2:1	30/175

*ALL SILT FENCES SHALL BE PLACED AS CLOSE TO THE DISTURBED AREA AS POSSIBLE, BUT AT LEAST 10 FEET FROM THE TOE OF A SLOPE STEEPER THAN 3H:1V, TO ALLOW FOR MAINTENANCE AND ROLL DOWN. THE AREA BEYOND THE FENCE MUST BE UNDISTURBED OR STABILIZED.

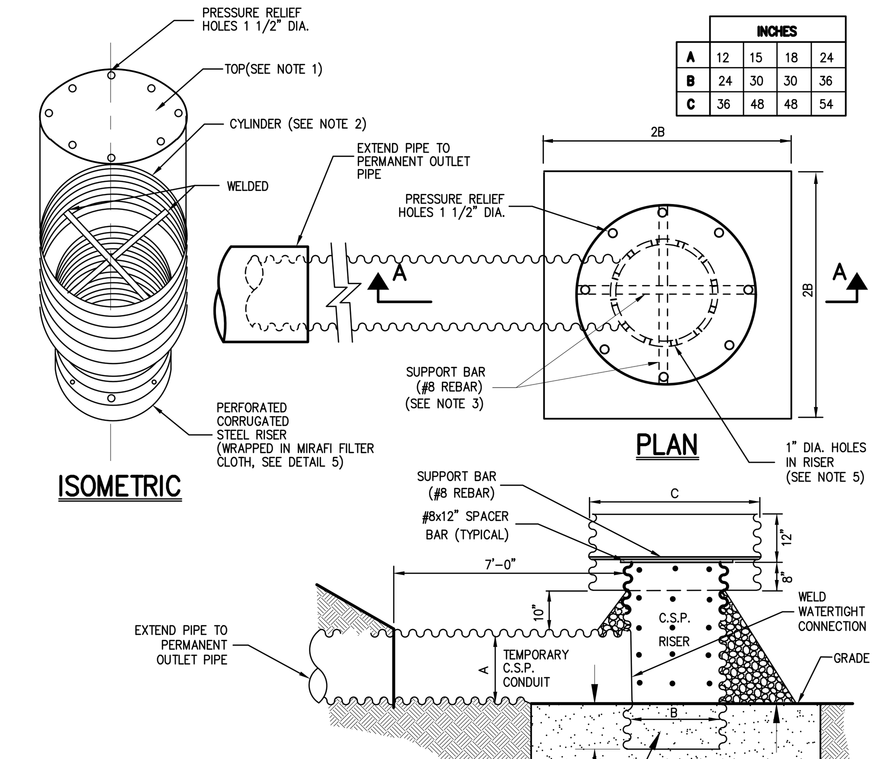
SILT FENCE | 1



NOTES:

1. WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL, EITHER T OR U TYPE OR HARDWOOD.
2. FILTER CLOTH SHALL BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABLINKA T140N, OR APPROVED EQUAL.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED AND REPLACED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
6. THE AREA CHOSEN FOR ALL TEMPORARY SOIL STOCKPILES SHALL BE DRY AND STABLE.
7. ALL STOCKPILED SOIL SHALL NOT CONTAIN SLOPES GREATER THAN 2:1.
8. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SEEDED WITHIN 24 HOURS. PERENNIAL OR ANNUAL RYEGRASS SHALL BE PLANTED DURING SPRING, SUMMER OR EARLY FALL, WINTER RYE (CEREAL RYE) SHALL BE PLANTED DURING LATE FALL OR EARLY WINTER.
9. ALL STOCKPILES SHALL BE PROTECTED WITH SILT FENCING INSTALLED AROUND THE PERIMETER.

TEMPORARY SOIL STOCKPILE WITH SILT FENCE | 2

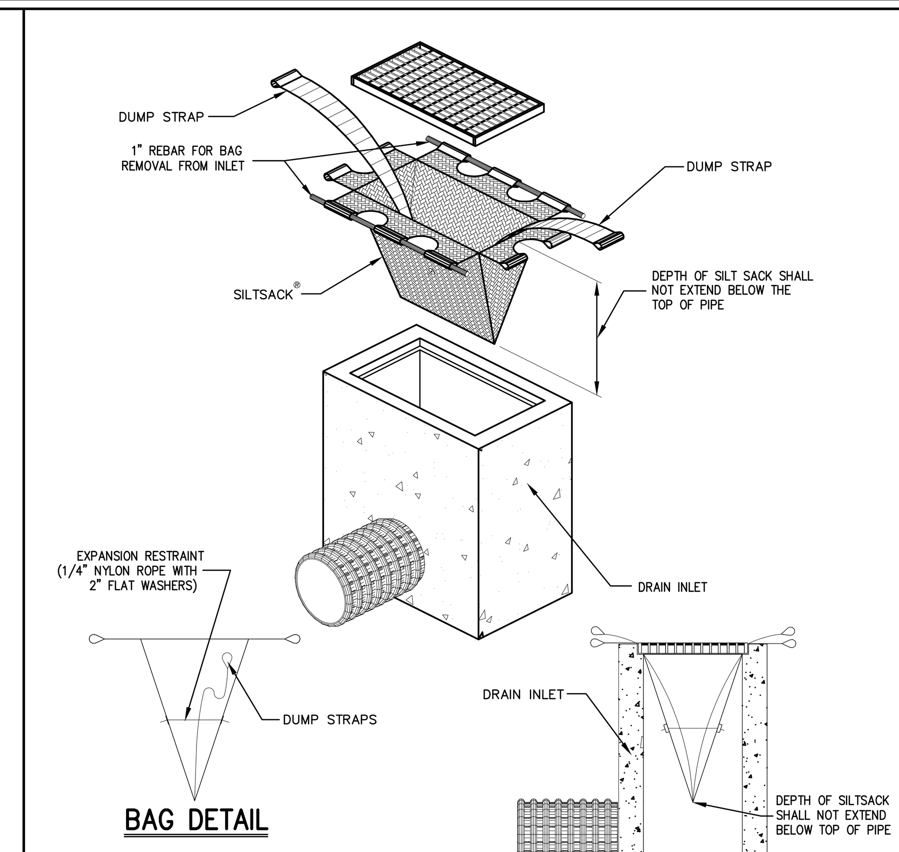


	INCHES			
A	12	15	18	24
B	24	30	30	36
C	36	48	48	54

NOTES:

1. TOP SHALL BE 12 GAGE CORRUGATED STEEL OR 1/8" STEEL PLATE.
2. CYLINDER SHALL BE 14 GAGE CORRUGATED STEEL PIPE OR FABRICATED FROM 1/8" STEEL PLATE. THE CYLINDER SHALL BE FIRMLY FASTENED TO THE TOP OF THE RISER.
3. SUPPORT BARS SHALL BE WELDED TO THE TOP OF THE RISER OR ATTACHED BY STRAPS BOLTED TO THE TOP OF THE RISER.
4. TEMPORARY RISER AND ANTI-VORTEX DEVICE SHALL BE REMOVED UPON COMPLETION OF PAVEMENT AND ESTABLISHMENT OF SEEDED AREAS.
5. RISER TO BE PERFORATED WITH 1" HOLES SPACED 12" HORIZ. AND VERT. AND LOCATED IN CONCAVE PORTION OF CORRUGATIONS. PERFORATIONS SHALL NOT EXTEND BELOW INVERT ELEVATIONS OF OUTLET PIPE. WRAP RISER IN MIRAFI FW404 FILTER FABRIC OR APPROVED EQUAL AND SURROUND RISER WITH 1 1/2"-2" SIZE CRUSHED STONE.

TEMPORARY RISER & ANTI-VORTEX DEVICE | 3



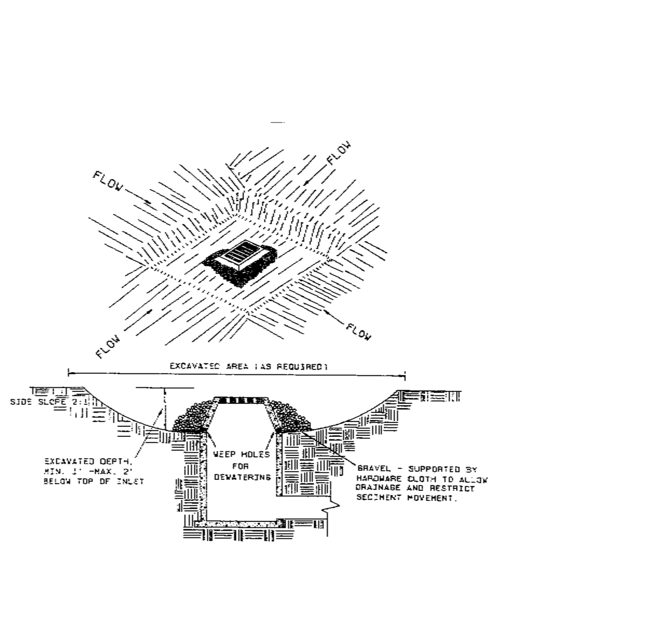
BAG DETAIL

HI-FLOW SILT SACK AS MANUFACTURED BY ACF ENVIRONMENTAL OR APPROVED EQUAL®
(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC -1

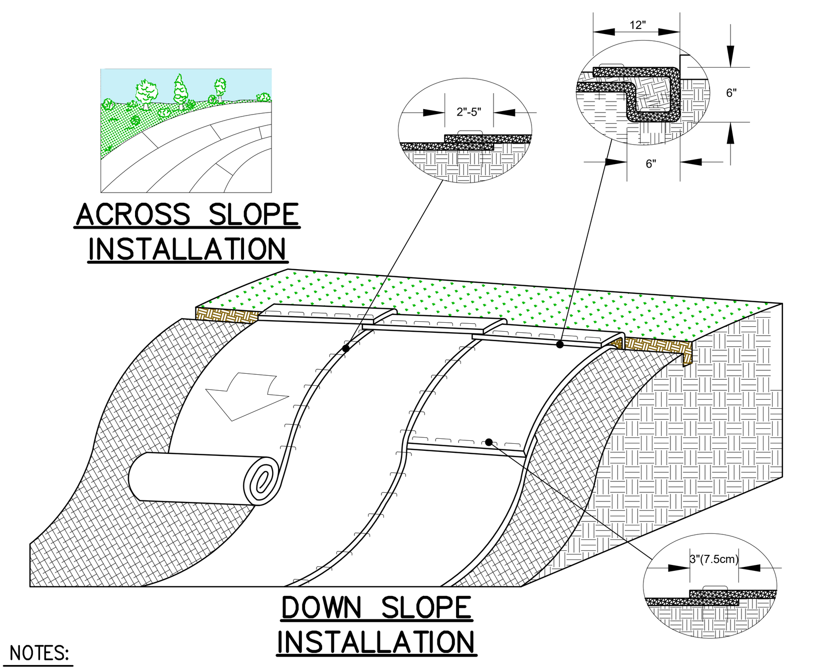
NOTE:
CURB INLETS SHALL BE TYPE B WITH CURB DEFLECTOR.

MANUFACTURED INSERT INLET PROTECTION | 4



1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROCTECTED BY/STONE.
4. PROVIDE FREQUENT INSPECTION AND MAINTENANCE. REMOVE ACCUMULATED SEDIMENT AND REPAIR OR REPLACE INLET PROTECTION TO MAINTAIN EFFECTIVENESS OF THE INSTALLATION.
5. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA. SEAL WEEP HOLES FILL BASIN WITH STABLE SOIL TO FINAL GRADE. COMPACT IT PROPERLY AND STABILIZE WITH PERMANET SEEDING.

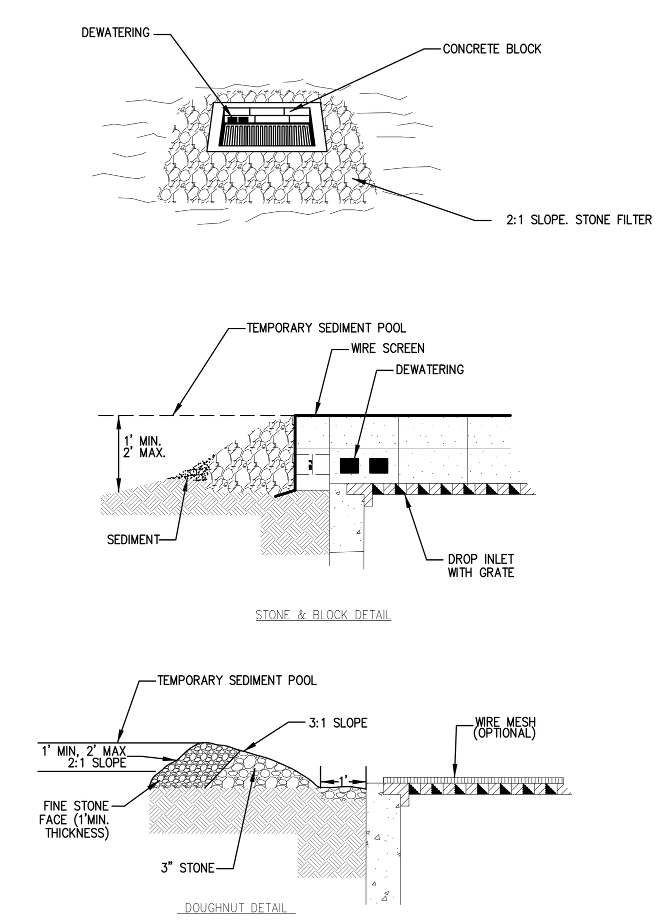
EXCAVATED DROP INLET PROTECTION | 5



NOTES:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPS), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPS IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECPS EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPS WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL AND FOLD THE REMAINING 12" PORTION OF RECPS BACK OVER THE SEED AND COMPACTED SOIL. SECURE RECPS OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECPS.
3. ROLL THE RECPS EITHER DOWN OR HORIZONTALLY ACROSS THE SLOPE. RECPS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
4. THE EDGES OF PARALLEL RECPS MUST BE STAPLED WITH APPROXIMATELY 2" - 5" OVERLAP DEPENDING ON THE RECPS TYPE.
5. CONSECUTIVE RECPS SPLICED DOWN THE SLOPE MUST BE END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECPS WIDTH.
6. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.
7. MATERIAL FOR THE RECP SHALL BE EAST COAST EROSION CONTROL ECS-2B BIODEGRADABLE DOUBLE NET STRAW OR APPROVED EQUAL.

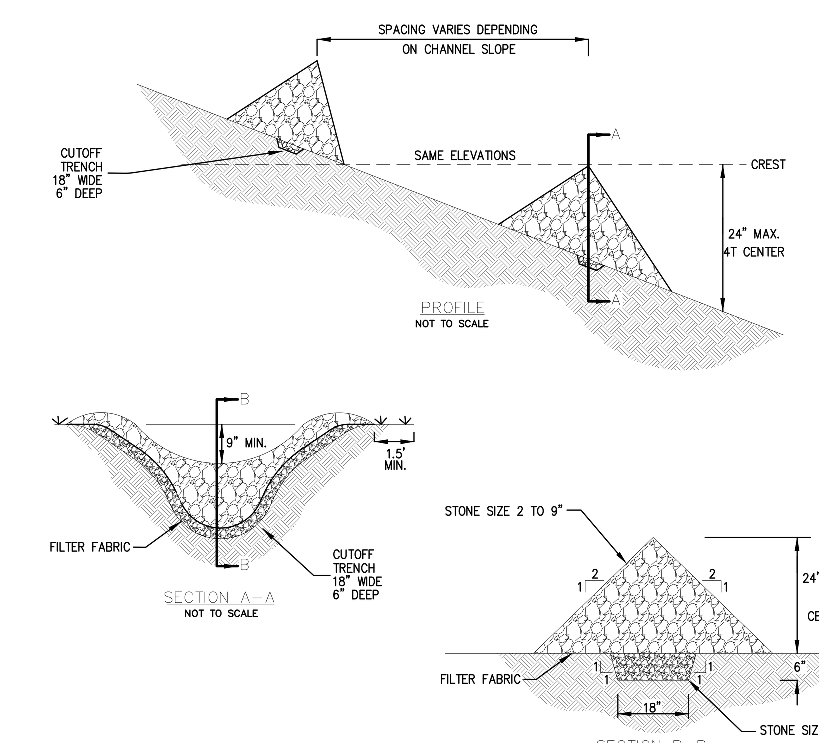
ROLLED EROSION CONTROL MATTING | 6



NOTES:

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE 1/2" TO 3/4" IN DIAMETER PLACED 2" BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY. A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3" STONE AS SHOWN ON THE DRAWINGS.

STONE & BLOCK DROP INLET PROTECTION | 7

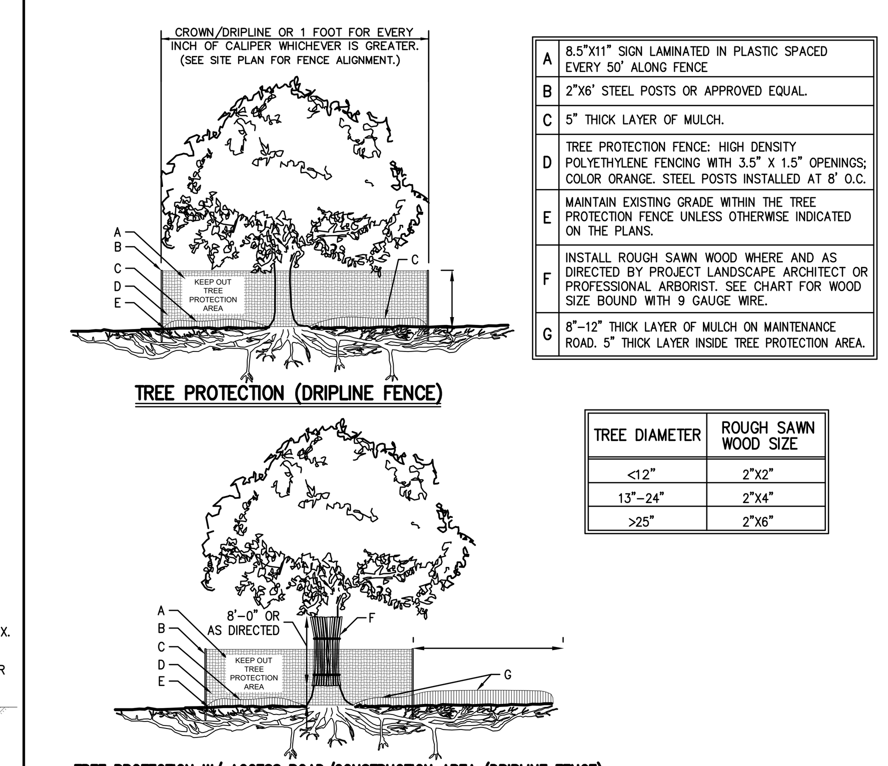


CONSTRUCTION SPECIFICATIONS:

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSURE THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANK TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

MAXIMUM DRAINAGE AREA 2 ACRES.

STONE CHECK DAM | 8



A	8.5"X11" SIGN LAMINATED IN PLASTIC SPACED EVERY 50' ALONG FENCE
B	2"X6" STEEL POSTS OR APPROVED EQUAL.
C	5" THICK LAYER OF MULCH.
D	TREE PROTECTION FENCE: HIGH DENSITY POLYETHYLENE FENCING WITH 3.5" X 1.5" OPENINGS; COLOR ORANGE. STEEL POSTS INSTALLED AT 8' O.C.
E	MAINTAIN EXISTING GRADE WITHIN THE TREE PROTECTION FENCE UNLESS OTHERWISE INDICATED ON THE PLANS.
F	INSTALL ROUGH SAWN WOOD WHERE AND AS DIRECTED BY PROJECT LANDSCAPE ARCHITECT OR PROFESSIONAL ARBORIST. SEE CHART FOR WOOD SIZE BOUND WITH 9 GAUGE WIRE.
G	8"-12" THICK LAYER OF MULCH ON MAINTENANCE ROAD. 5" THICK LAYER INSIDE TREE PROTECTION AREA.

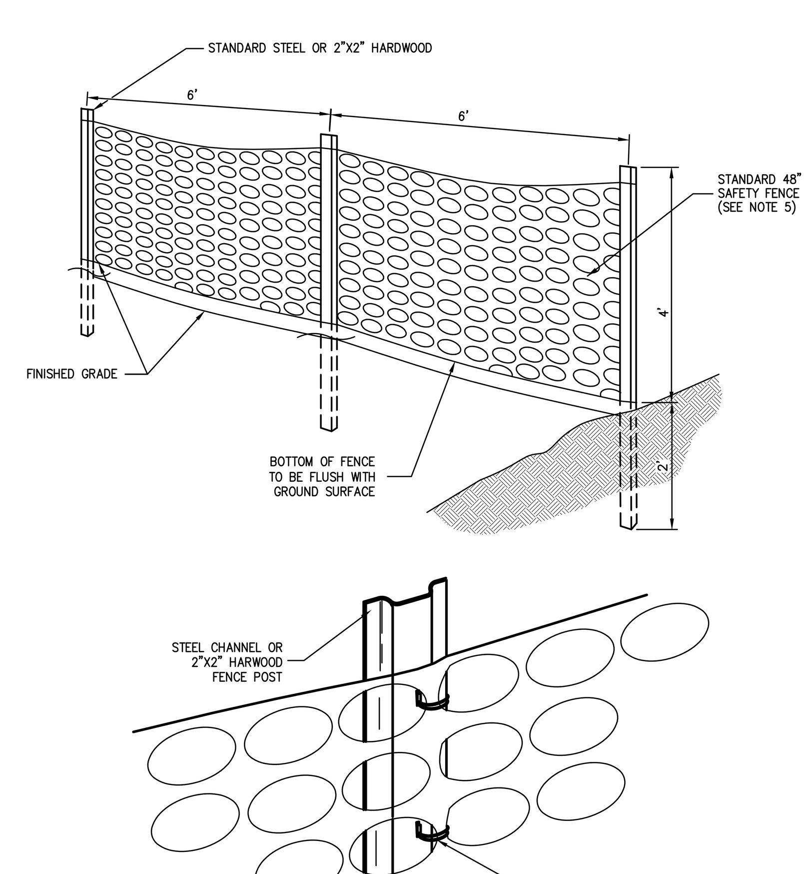
TREE DIAMETER	ROUGH SAWN WOOD SIZE
<12"	2"X2"
13"-24"	2"X4"
>25"	2"X6"

TREE PROTECTION W/ ACCESS ROAD/CONSTRUCTION AREA (DRIPLINE FENCE)

NOTES:

1. SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.
2. IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.
3. NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
4. NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
5. SEE SITE PLANS FOR IDENTIFICATIONS/LOCATIONS OF INDIVIDUAL TREES TO BE PROTECTED.
6. ALL EXCAVATION WITHIN THE CROWN/DRIPLINE OF ANY TREE SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF THE PROJECT LANDSCAPE ARCHITECT OR PROFESSIONAL ARBORIST. SPECIAL MEASURES, SUCH AS THE USE OF AN AIR SPADE MAY BE REQUIRED.
7. THE CONTRACTOR MAY PROPOSE THE USE OF ENGINEERED MATTING OR OTHER ENGINEERED PRODUCTS IN LIEU OF MULCH, WHICH SHALL BE SUBJECT TO THE REVIEW AND APPROVAL OF ALL AUTHORITIES HAVING JURISDICTION.

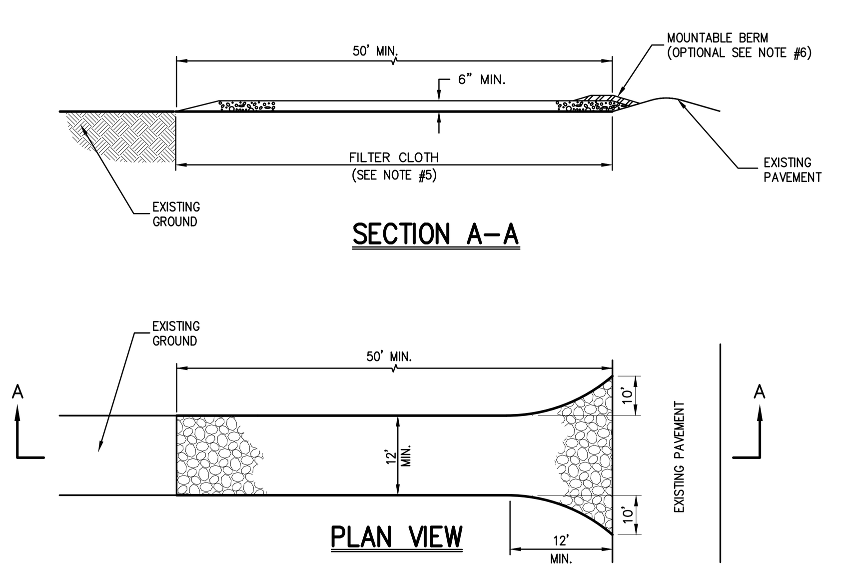
TREE PROTECTION | 9



NOTES:

1. SPACE SUPPORT FENCE POSTS AT 6 FOOT INTERVALS.
2. DRIVE SUPPORT POSTS 2 FEET INTO GROUND.
3. FIRMLY FASTEN FENCE MATERIAL IN PLACE BY WIRING TO FENCE POST WHILE MAINTAINING TENSION ACROSS FULL HEIGHT OF FENCE. WIRING SHALL BE DONE IN A MANNER THAT WILL PREVENT SAGGING OF FENCE MATERIAL.
4. PROVIDE PERIODIC INSPECTION AND MAINTENANCE OF FENCE INCLUDING REPAIRS AS NECESSARY AND REQUIRED.
5. PLASTIC FENCE SHALL BE INTERNATIONAL ORANGE COLOR, AS MANUFACTURED BY ADPI ENTERPRISES, INC. OR APPROVED EQUAL.
6. REMOVE CONSTRUCTION FENCE AS DIRECTED BY THE OWNER'S FIELD REPRESENTATIVE.

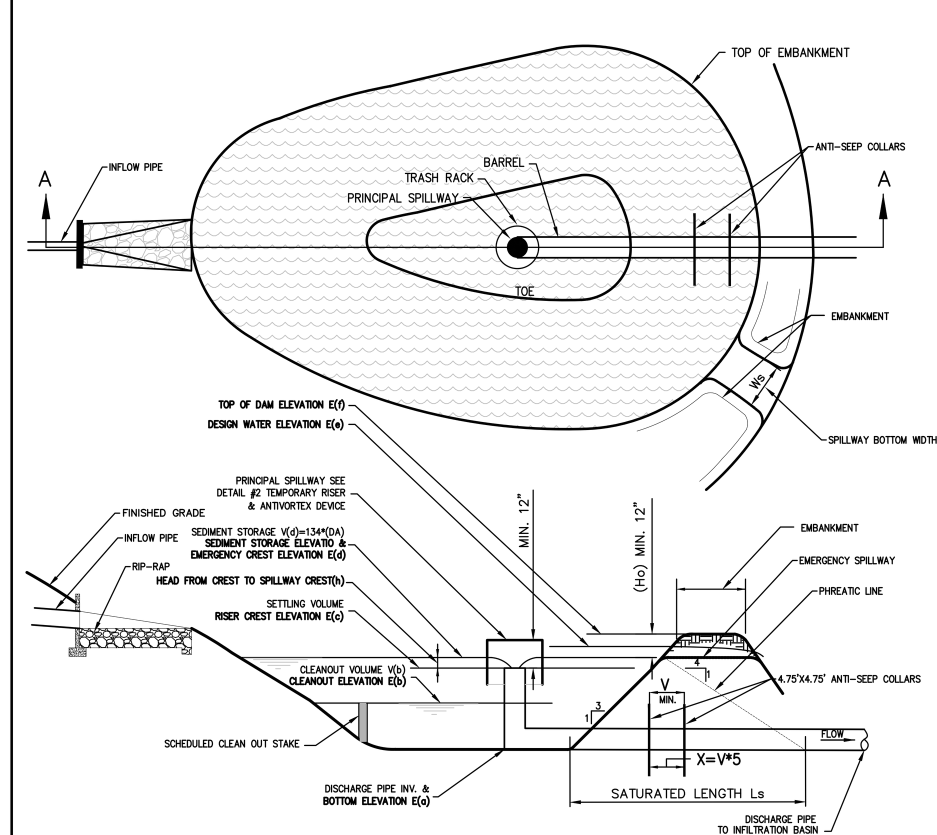
CONSTRUCTION FENCE | 10



NOTES

1. STONE SIZE – USE 1" TO 4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – AS REQUIRED, BUT NOT LESS THAN 50 FEET.
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24 FOOT MINIMUM IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH TO BE PLACED OVER THE ENTIRE WIDTH AND LENGTH OF AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURE USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ACCESS | 11

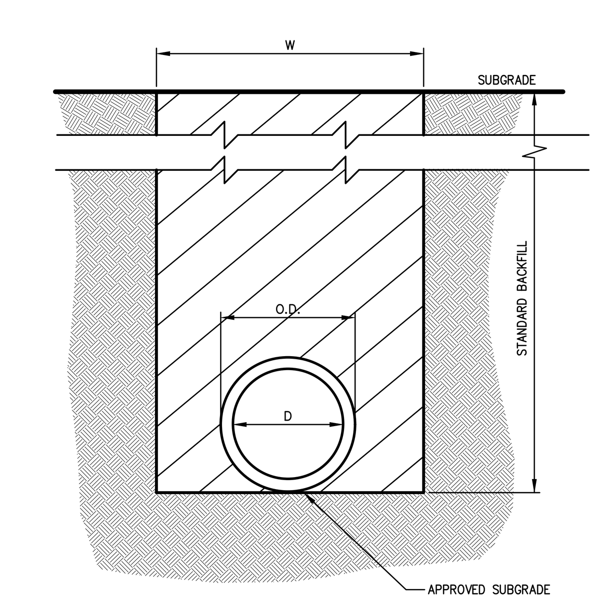


SECTION 'A–A'

BASIN No.	D.A. acres	E(a) ft.	E(b) ft.	V(b) cu.yds.	E(c) ft.	E(d) ft.	REQUIRED V(d) cu.yds.	PROVIDED V(d) cu.yds.	E(e) ft.	E(f) ft.	E(g) ft.	h ft.	ANTI-SEEP COLLARS Ls(ft)	QUANT.	SIZE (ft)	V (ft)	X ft.
#1	5.2	306	307.5	1296	308.50	309	697	2592	309.5	310	305	0.5	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
#2	12.5	212	214.5	1081	216.50	217	1675	2162	217.5	218	211	0.5	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
#3	9.9	206	207.5	932	208.50	209	1327	1864	209.5	210	205	0.5	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX

NOTES: 1. REFER TO EROSION AND SEDIMENTATION CONTROL PLANS NOTES ON DRAWING C-400 "EROSION & SEDIMENT CONTROL PLAN".

TEMPORARY SEDIMENT BASIN DETAIL | 12

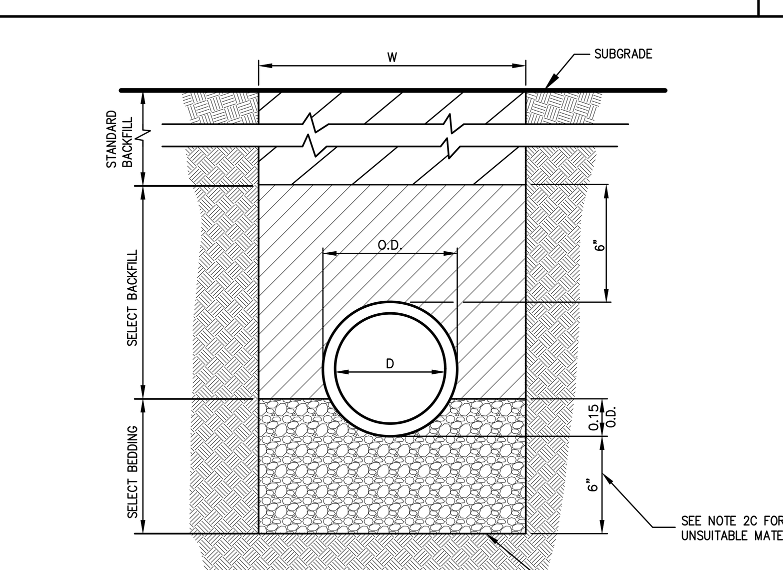


D=INSIDE DIAMETER, SPAN, OR RISE
O.D.=OUTSIDE BARREL DIAMETER, SPAN OR RISE
H.D.=OUTSIDE DIAMETER, SPAN, OR RISE @ BELL OR BAND
W=H.D. + 2.0' – FOR 48" OR SMALLER DIAMETER, SPAN, OR RISE
W=H.D. + 2.5' – FOR GREATER THAN 48" DIAMETER, SPAN, OR RISE

NOTES:

1. IN FILL AREAS, EMBANKMENTS SHALL BE CONSTRUCTED TO A MAXIMUM OF 2 FEET ABOVE TOP OF PIPE BEFORE EXCAVATING TRENCH.
2. FOR CORRUGATED POLYETHYLENE DRAIN PIPE (CPDP) INSTALLATION AND POLYVINYL CHLORIDE (PVC) PIPE AND CONDUIT INSTALLATION, USE TYPE II TRENCH.
3. BACKFILL FOR PIPE SHALL BE PLACED EVENLY AND CAREFULLY AROUND AND OVER THE PIPE OR CONDUIT IN SIX (6) INCH MAXIMUM LAYERS. EACH LAYER SHALL BE THOROUGHLY AND CAREFULLY COMPACTED UNTIL TWELVE (12) INCHES OF COVER EXISTS OVER THE PIPE OR CONDUIT. THE REMAINDER OF THE BACKFILL MAY THEN BE PLACED AND COMPACTED IN A MAXIMUM OF TWELVE (12) INCH LAYERS. EACH LAYER SHALL BE COMPACTED BY APPROVED MECHANICAL TAMPING MACHINES. UNLESS OTHERWISE SPECIFIED BACKFILL SHALL BE COMPACTED TO NOT LESS THAN $\boxed{92\%}$ MAXIMUM MODIFIED DENSITY IN ACCORDANCE WITH ASTM DESIGNATION D-1557 IN THE MANNER HEREIN DESCRIBED. BACKFILL SHALL PROCEED UP TO THE LINES AND GRADES AS SHOWN ON THE DRAWINGS.

TYPE I TRENCH (FLAT BOTTOM) | 13



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W=H.D. + 2.0' – FOR 48" OR SMALLER DIAMETER, SPAN, OR RISE
W=H.D. + 2.5' – FOR GREATER THAN 48" DIAMETER, SPAN, OR RISE

NOTES:

1. FOR TYPE II TRENCH, MATERIAL FOR SELECT BEDDING AND SELECT BACKFILL SHALL BE:
   A. EITHER SAND OR CRUSHED STONE IF NO WATER IS ENCOUNTERED IN TRENCH.
   B. 3/4"CRUSHED STONE IF WATER IS ENCOUNTERED IN TRENCH.
2. TYPE II TRENCH SHALL BE USED IN ALL OF THE FOLLOWING CASES:
   A. FOR ALL CORRUGATED POLYETHYLENE DRAIN PIPE (CPDP) AND PVC PIPE AND CONDUIT INSTALLATION.
   B. WHEN ROCK OR HARDPAN IS ENCOUNTERED IN BOTTOM OF TRENCH.
   C. WHEN UNSUITABLE MATERIAL IS ENCOUNTERED IN BOTTOM OF TRENCH. IN SUCH CASE DEPTH OF UNDERCUTTING SHALL BE AS DIRECTED BY THE ENGINEER WITH 6" MINIMUM.
3. FOR ALL TRENCH EXCAVATION IN FILL AREAS, ALL EMBANKMENTS SHALL BE CONSTRUCTED TO A MINIMUM OF 2 FEET ABOVE THE OUTSIDE TOP (AT THE BELL) OF THE PIPE PRIOR TO BEGINNING ANY TRENCH EXCAVATION.
4. BACKFILL FOR PIPE AND CONDUIT SHALL BE PLACED EVENLY AND CAREFULLY AROUND AND OVER THE PIPE OR CONDUIT IN SIX (6) INCH MAXIMUM LAYERS. EACH LAYER SHALL BE THOROUGHLY AND CAREFULLY COMPACTED UNTIL TWELVE (12) INCHES OF COVER EXISTS OVER THE PIPE OR CONDUIT. THE REMAINDER OF THE BACKFILL MAY THEN BE PLACED AND COMPACTED IN A MAXIMUM OF TWELVE (12) INCH LAYERS. EACH LAYER SHALL BE COMPACTED BY APPROVED MECHANICAL TAMPING MACHINES. UNLESS OTHERWISE SPECIFIED BACKFILL SHALL BE COMPACTED TO NOT LESS THAN $\boxed{92\%}$ MAXIMUM MODIFIED DENSITY IN ACCORDANCE WITH ASTM DESIGNATION D-1557 IN THE MANNER HEREIN DESCRIBED. BACKFILL SHALL PROCEED UP TO THE LINES AND GRADES AS SHOWN ON THE DRAWINGS.

TYPE II TRENCH | 14

No.	Revision	Date	By
1.	PLANNING BOARD SUBMISSION	03/19/2021	BMS
2.	PLANNING BOARD SUBMISSION	06/22/2021	BMS

APPLICANT: FARRELL COMMUNITIES AT OVERLOOK PONDS LLC, P.O. BOX 14, BRIDGEHAMPTON, NY 11932

ARCHITECT: PETER F. GATO & ASSOCIATES, 102 MAPLE AVENUE, WHITE PLAINS, NY 10605

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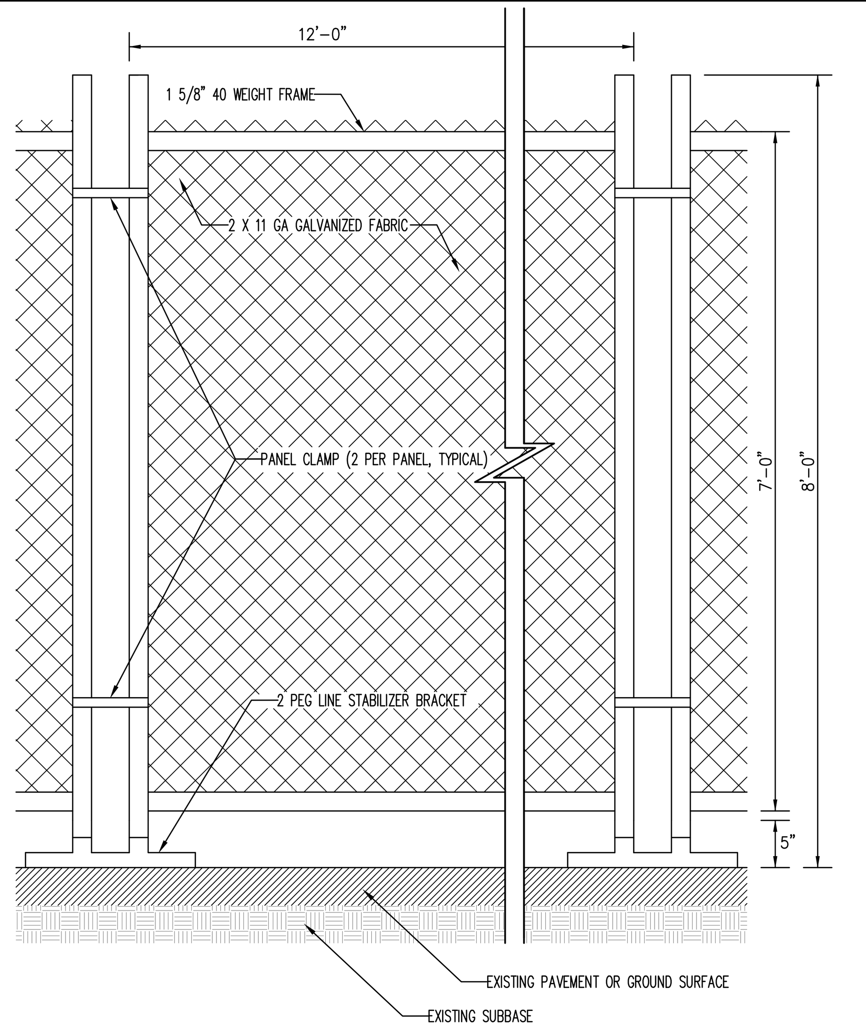
CONSTRUCTION DETAILS

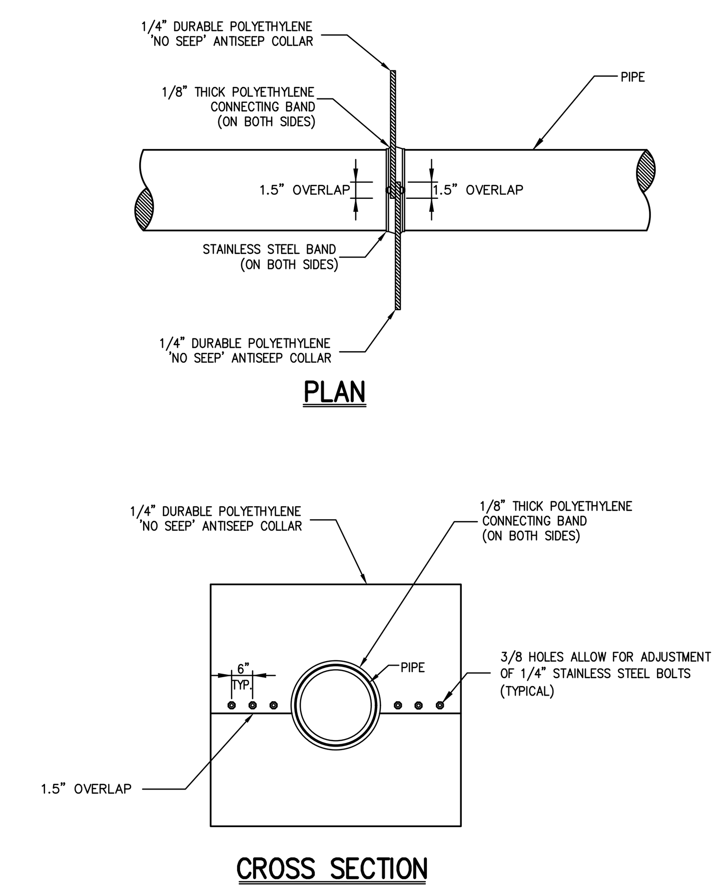
OVERLOOK FARMS A FARRELL COMMUNITY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

Drawn: BMS | Approved: JS
Scale: NOT TO SCALE
Date: 03/19/2021
Project No: 17088
Drawing No: C-900



NOTE:
STABILIZED BRACKET TO BE HOT DIPPED GALVANIZED STEEL PIPE.

TEMPORARY CHAIN LINK CONSTRUCTION FENCE — 15



ANTISEEP COLLAR — 16

NOTES PERTAINING TO DRAIN INLETS

A-1 STEPS WILL NOT BE REQUIRED IN INLETS LESS THAN FOUR (4) FEET IN DEPTH. STEPS WILL BE REQUIRED IN INLETS FOUR (4) FEET OR GREATER IN DEPTH. DEPTHS FOR DRAIN INLETS SHALL BE MEASURED FROM FINISHED GRADE TO INSIDE BOTTOM OF STRUCTURE (INCLUDING SUMP AS APPLICABLE).

A-2 WHEN STEPS ARE REQUIRED, STEPS SHALL COMPLY WITH THE SAME REQUIREMENTS OF ASTM STANDARD C-478, ARTICLE 13 ENTITLED "MANHOLE STEPS & LADDERS".

A-3 FOR MASONRY STRUCTURES, THE FIRST COURSE OF MASONRY SHALL BE SET IN THE CONCRETE FOUNDATION BEFORE THE CONCRETE HAS SET. CONCRETE FOUNDATION SHALL BE CLASS "A"(4000 psi) CONCRETE, TWELVE (12) INCHES THICK AND SHALL EXTEND SIX (6) INCHES BEYOND THE OUTSIDE FACE THE STRUCTURE.

A-4 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH AND CONSTRUCT THE PROPER SIZE STRUCTURE INCLUDING THE NECESSARY OPENINGS TO ACCOMMODATE THE WORK AS SHOWN ON THE PLANS OR ORDERED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.

A-5 ALL NECESSARY PATCHING FOR DRAIN STRUCTURES SHALL BE ACCOMPLISHED WITH NON-SHRINKING CEMENT MORTAR GROUT, APPROVED EQUAL TO SIKA-SET AS MANUFACTURED BY THE SIKA CHEMICAL CORP.

A-6 FOUNDATIONS FOR PRECAST CONCRETE STRUCTURES SHALL BE SET ON A COMPACTED LAYER OF APPROVED CRUSHED STONE HAVING A MINIMUM COMPACTED THICKNESS OF EIGHT (8) INCHES.

A-7 ALL PIPES SHALL BE CUT FLUSH WITH THE INSIDE WALL OF THE STRUCTURE.

A-8 PROVIDE REINFORCED CONCRETE TOP SLAB FOR OVERSIZED DRAIN INLETS WITH PROPER SIZE OPENING TO ACCOMMODATE INSTALLATION OF FRAME & GRATE.

A-9 FOR MASONRY STRUCTURES GREATER THAN TEN (10) FEET IN DEPTH, THICKNESS OF MASONRY WALLS SHALL BE INCREASED TO TWELVE (12) INCHES.

A-10 FOR ALL STRUCTURES GREATER THAN 10 FEET IN DEPTH, STRUCTURES SHALL PROVIDE MINIMUM INSIDE DIMENSIONS OF 4 FEET X 4 FEET.

NOTES PERTAINING TO MANHOLES

B-1 PRECAST CONCRETE MANHOLES SHALL COMPLY WITH ASTM STANDARD C-478. MANHOLE JOINTS SHALL COMPLY WITH ASTM STANDARD C-443.

B-2 FOR PRECAST CONCRETE MANHOLES FIVE (5) FEET OR LESS IN HEIGHT, TOP CONE SECTION SHALL BE REPLACED WITH PRECAST REINFORCED CONCRETE SLAB (6" MIN. THICKNESS) WITH OPENING OF SUFFICIENT SIZE TO ACCOMMODATE MANHOLE CASTING.

B-3 FOR MANHOLES 10 FEET OR MORE IN DEPTH, MANHOLE DIAMETER SHALL BE FIVE (5) FEET.

B-4 TERMINAL MANHOLE FLOORS SHALL BE SLOPED TOWARD OUTFALL PIPE.

B-5 INVERT CHANNELS FOR PRECAST CONCRETE MANHOLES SHALL BE CONSTRUCTED OF CONCRETE.

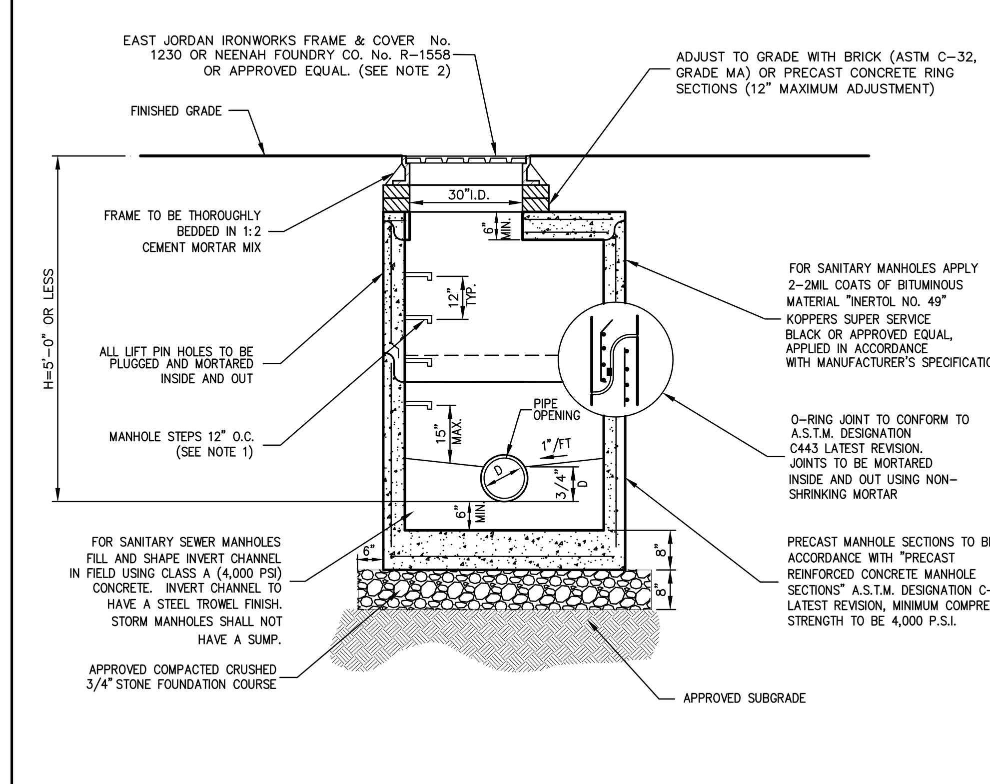
B-6 NOTES A-1, A-2, A-4, A-5, A-6 & A-7 UNDER "NOTES PERTAINING TO DRAIN INLETS" ABOVE SHALL APPLY TO MANHOLES.

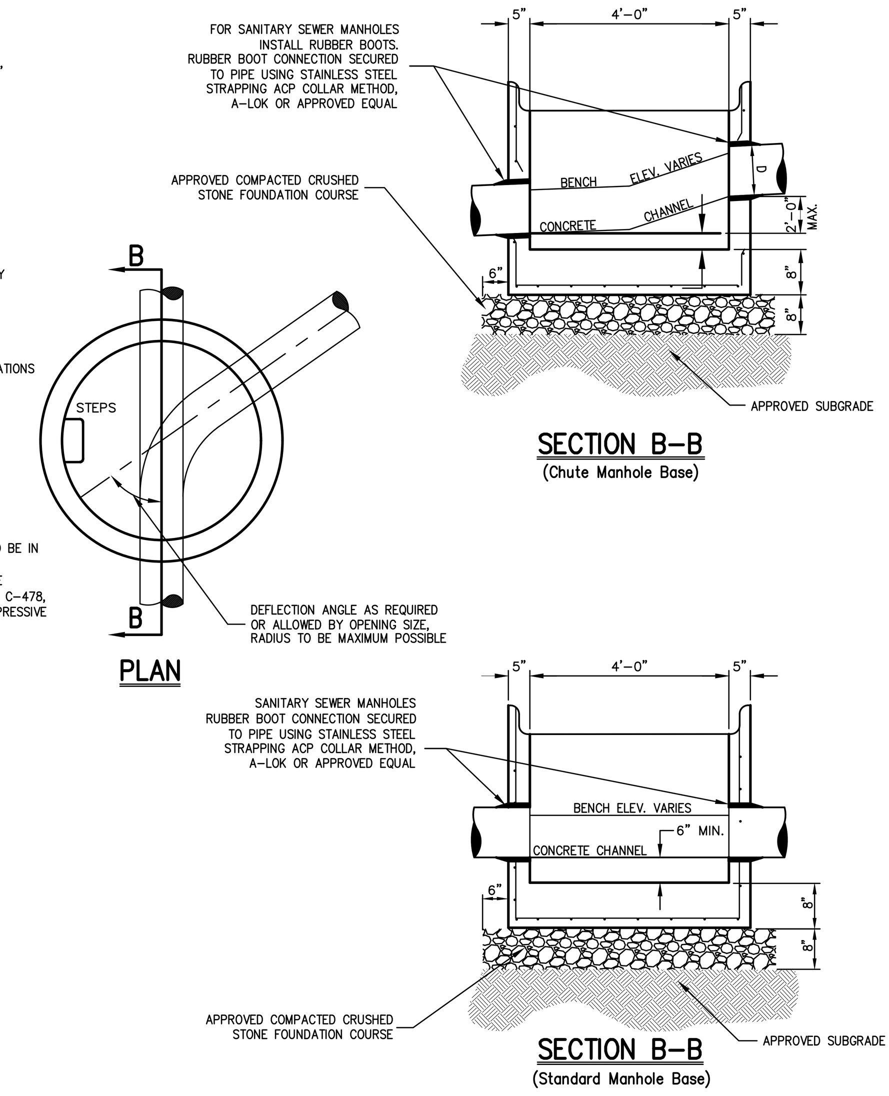
NOTES PERTAINING TO PRECAST CONCRETE STRUCTURES FOR STORM DRAINS, SANITARY SEWERS AND WATER LINES

C-1 ALL PRECAST CONCRETE STRUCTURES SHALL BE DESIGNED TO ACCOMMODATE AN H-20 DESIGN LOAD.

C-2 STEPS SHALL BE LOCATED WITHIN STRUCTURE TO AVOID PLACEMENT OVER PIPES WHEN PRACTICABLE.

UTILITY NOTES — 17

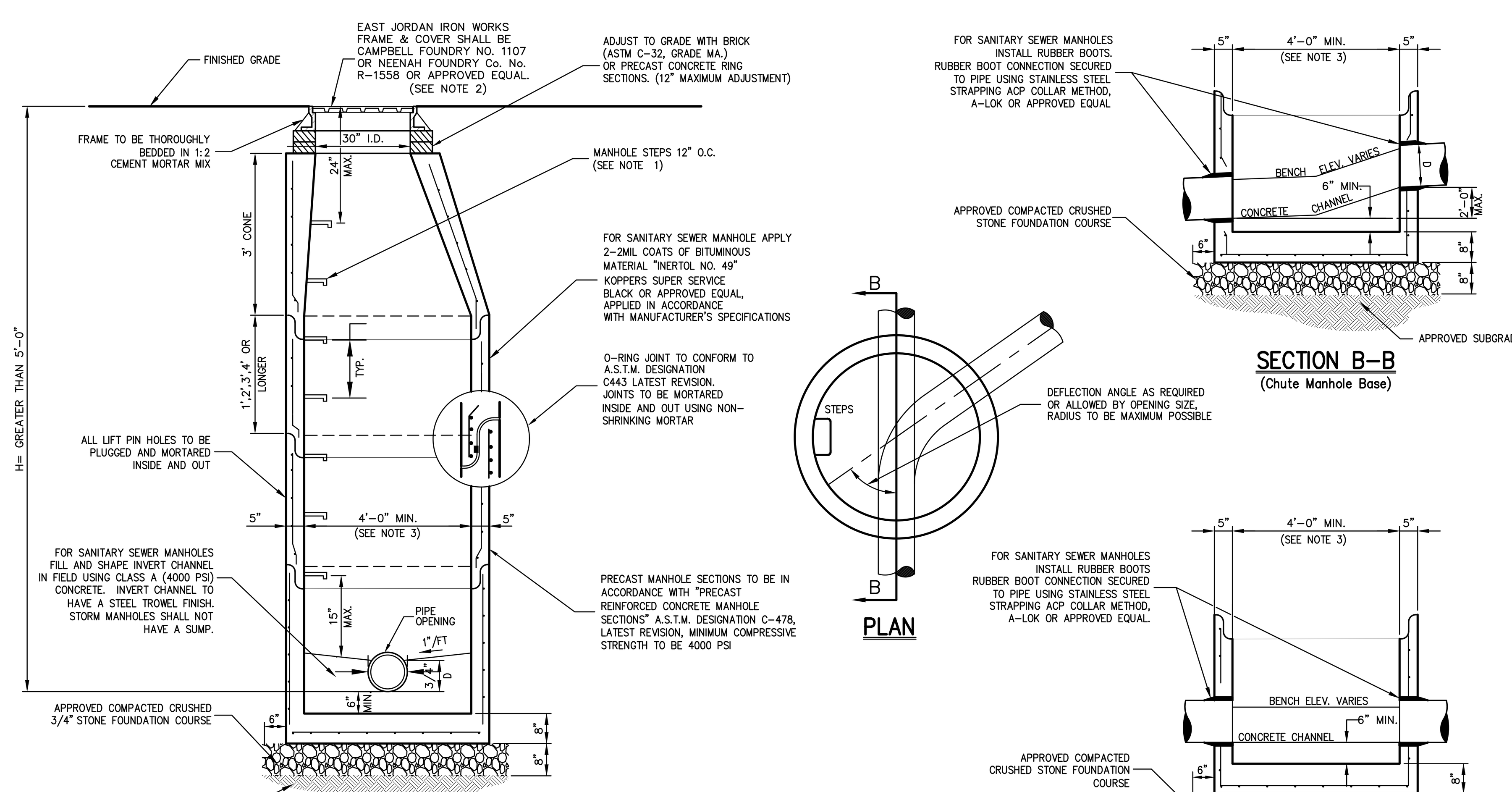




NOTES:

1. MANHOLE STEPS SHALL BE CAST IRON NEENAH No. R-1981-0 OR CAMPBELL FOUNDRY No. 2588-1 OR POLYPROPYLENE COATED STEEL (SEE SPECIFICATIONS) OR APPROVED EQUAL.
2. UNLESS OTHERWISE SPECIFIED, SANITARY SEWER MANHOLES SHALL HAVE LETTERS "SEWER" AND STORM DRAIN MANHOLES SHALL HAVE LETTERS "DRAIN" CAST ON COVER. THE COVERS SHALL HAVE VENT HOLES.
3. MANHOLES SHALL MEET OR EXCEED A.S.T.M. AND O.S.H.A. REQUIREMENTS.
4. SEE "NOTES PERTAINING TO MANHOLES" UNDER "UTILITY NOTES" ON DRAWING C-901

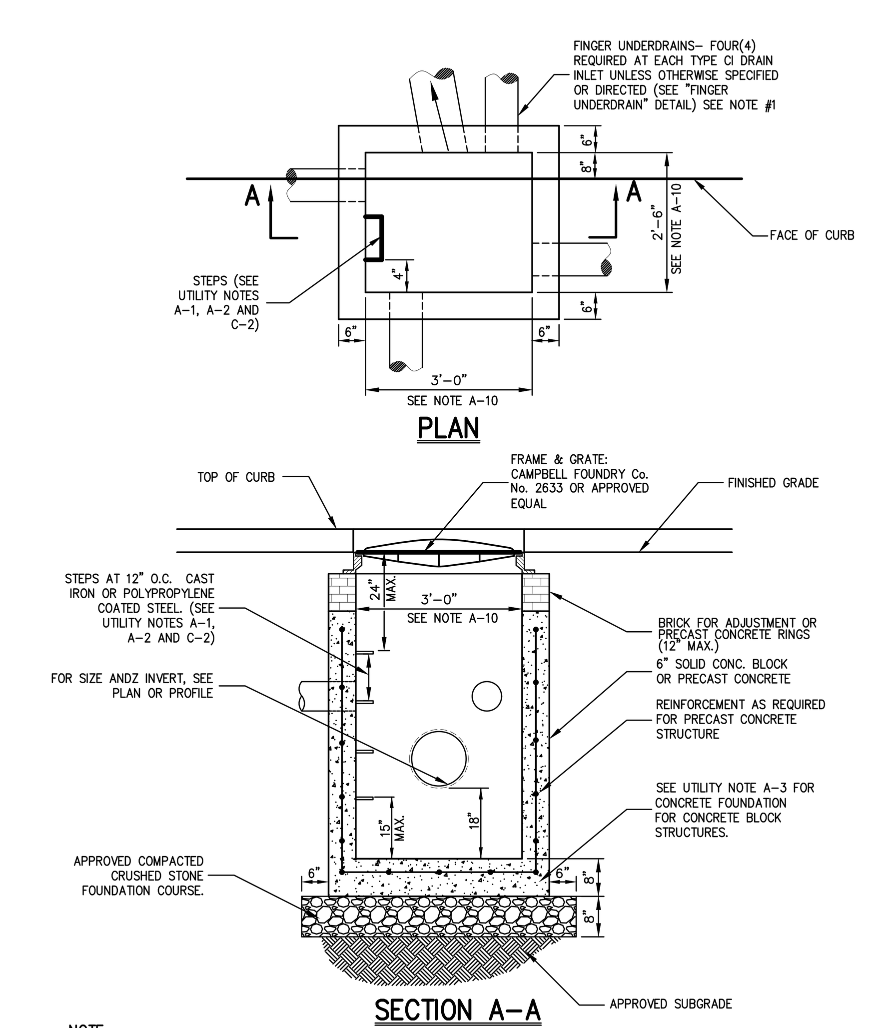
MANHOLE (TYPE A) — 18
(H < 5'-0")



NOTES:

1. MANHOLE STEPS SHALL BE CAST IRON NEENAH No. R-1981-0 OR CAMPBELL FOUNDRY No. 2588-1 OR POLYPROPYLENE COATED STEEL (SEE SPECIFICATIONS) OR APPROVED EQUAL.
2. UNLESS OTHERWISE SPECIFIED, SANITARY SEWER MANHOLES SHALL HAVE LETTERS "SEWER" AND STORM DRAIN MANHOLES SHALL HAVE LETTERS "DRAIN" CAST ON COVER. THE COVERS SHALL HAVE VENT HOLES.
3. MANHOLES WITH DEPTH (h) 10' OR GREATER SHALL BE FIVE (5) FEET IN DIAMETER.
4. MANHOLES SHALL MEET OR EXCEED A.S.T.M. AND O.S.H.A. REQUIREMENTS.
5. SEE "NOTES PERTAINING TO MANHOLES" UNDER "UTILITY NOTES" ON DRAWING C-901

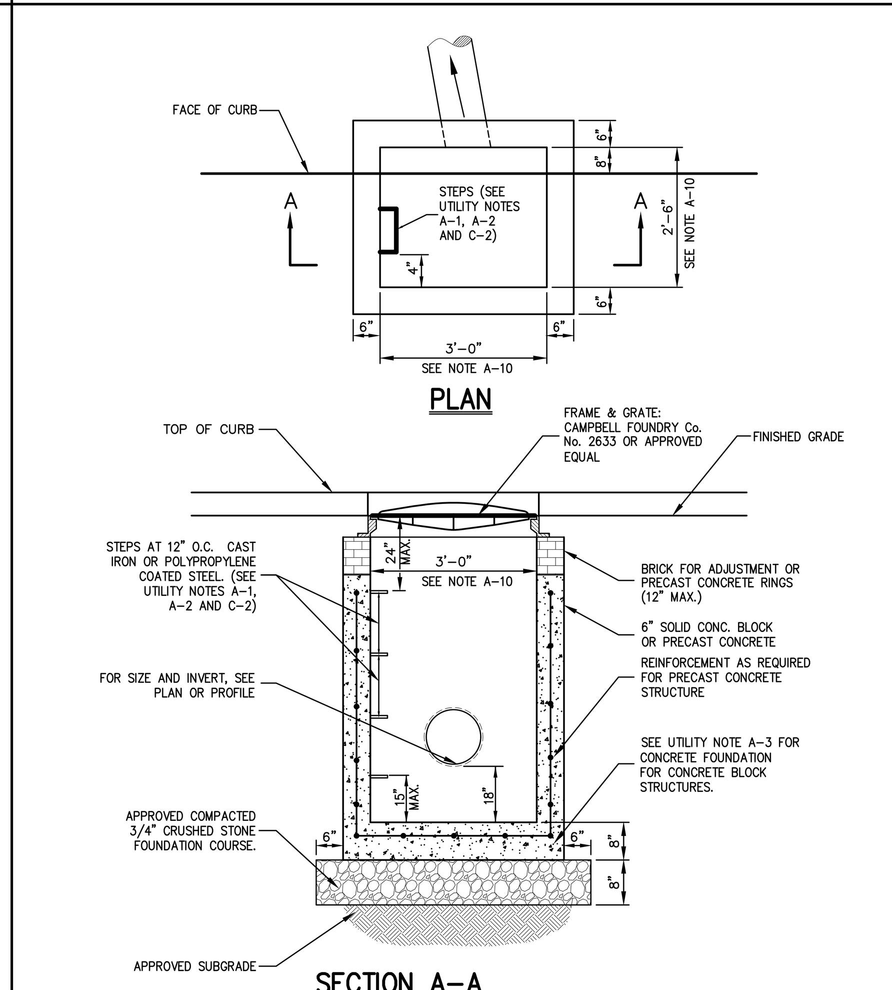
MANHOLE (TYPE B) — 19
(H > 5'-0")<10'-0")



NOTE

1. LOCATIONS OF FINGER UNDERDRAINS MAY VARY FROM THAT AS SHOWN DEPENDING UPON NUMBER AND SIZE OF STORM DRAIN LINES ENTERING AND EXITING THE STRUCTURE.
2. SEE NOTES PERTAINING TO DRAIN INLETS UNDER UTILITY NOTES ON DRAWING C-901

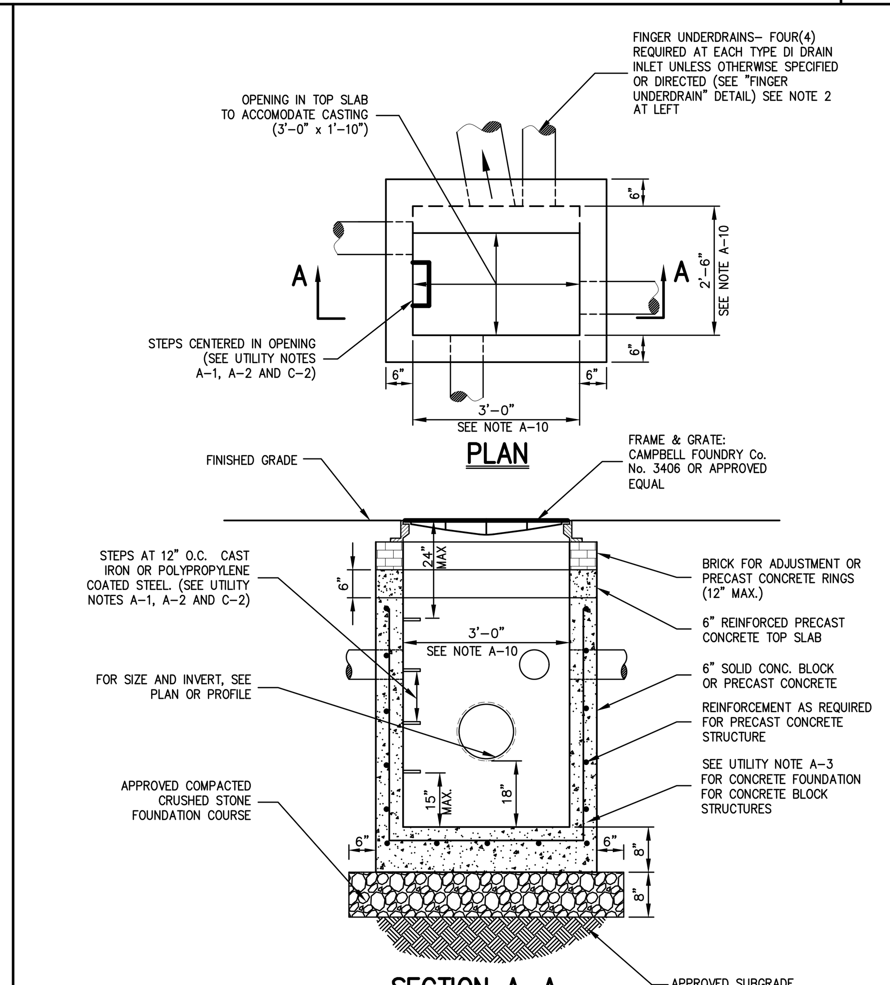
DRAIN INLET (TYPE CI) — 20
(with sump-with finger underdrains)



NOTE:

1. SEE NOTES PERTAINING TO DRAIN INLETS UNDER UTILITY NOTES ON DRAWING C-901

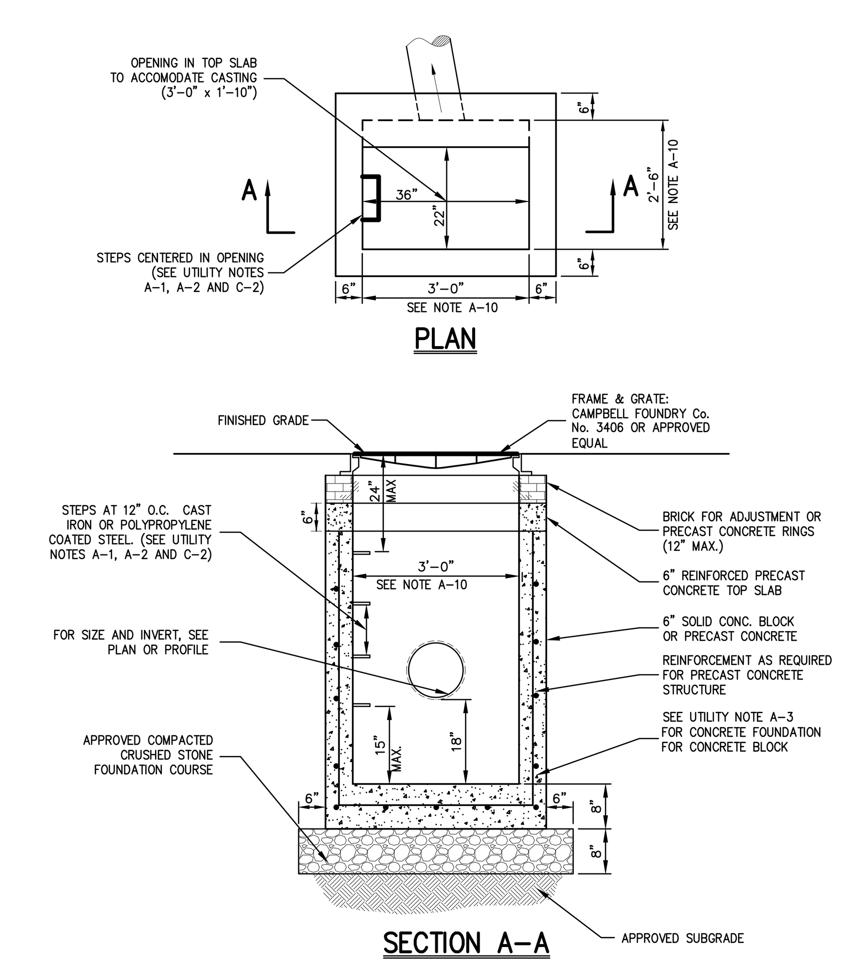
DRAIN INLET (TYPE CI) — 21
(with sump-w/o finger underdrains)



NOTE

1. REINFORCE PRECAST CONCRETE TOP SLAB AND REINFORCE PRECAST CONCRETE STRUCTURE SHALL BE DESIGNED TO ACCOMMODATE AN H-20 DESIGN LOAD.
2. LOCATIONS OF FINGER UNDERDRAINS MAY VARY FROM THAT AS SHOWN DEPENDING UPON NUMBER AND SIZE OF STORM DRAIN LINES ENTERING AND EXITING THE STRUCTURE.
3. SEE NOTES PERTAINING TO DRAIN INLETS UNDER UTILITY NOTES ON DRAWING C-901

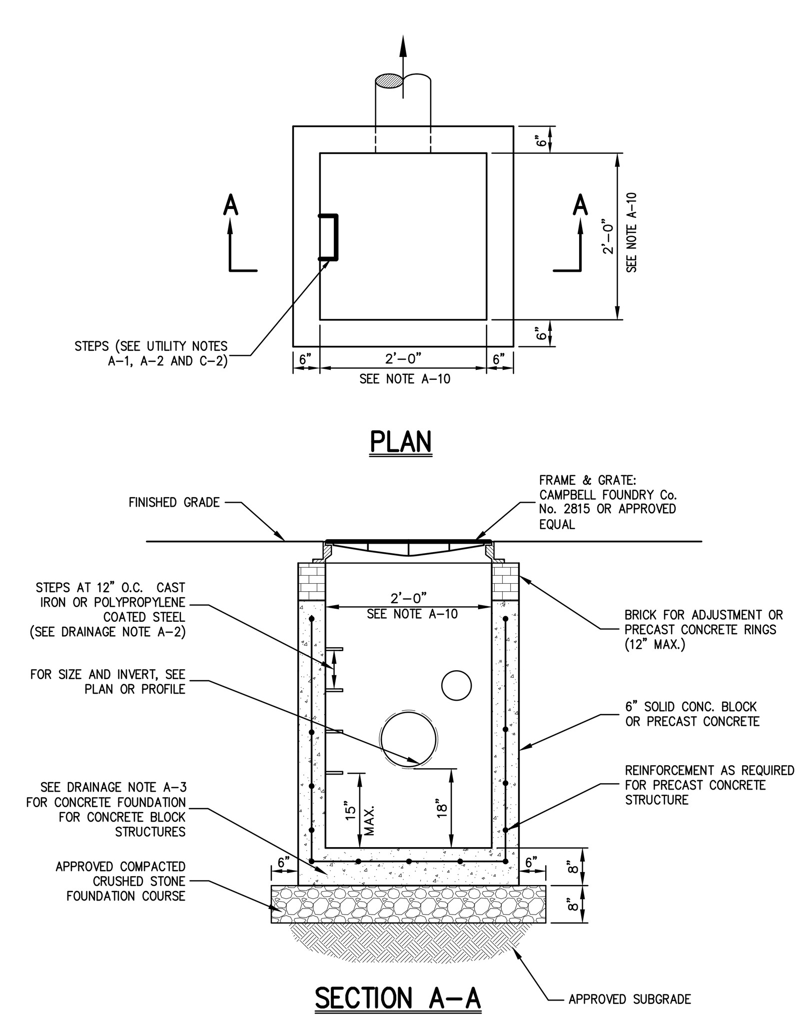
DRAIN INLET (TYPE DI) — 22
(with sump-with finger underdrains)



NOTE

1. REINFORCE PRECAST CONCRETE TOP SLAB AND REINFORCE PRECAST CONCRETE STRUCTURE SHALL BE DESIGNED TO ACCOMMODATE AN H-20 DESIGN LOAD.
2. SEE NOTES PERTAINING TO DRAIN INLETS UNDER UTILITY NOTES ON DRAWING C-901

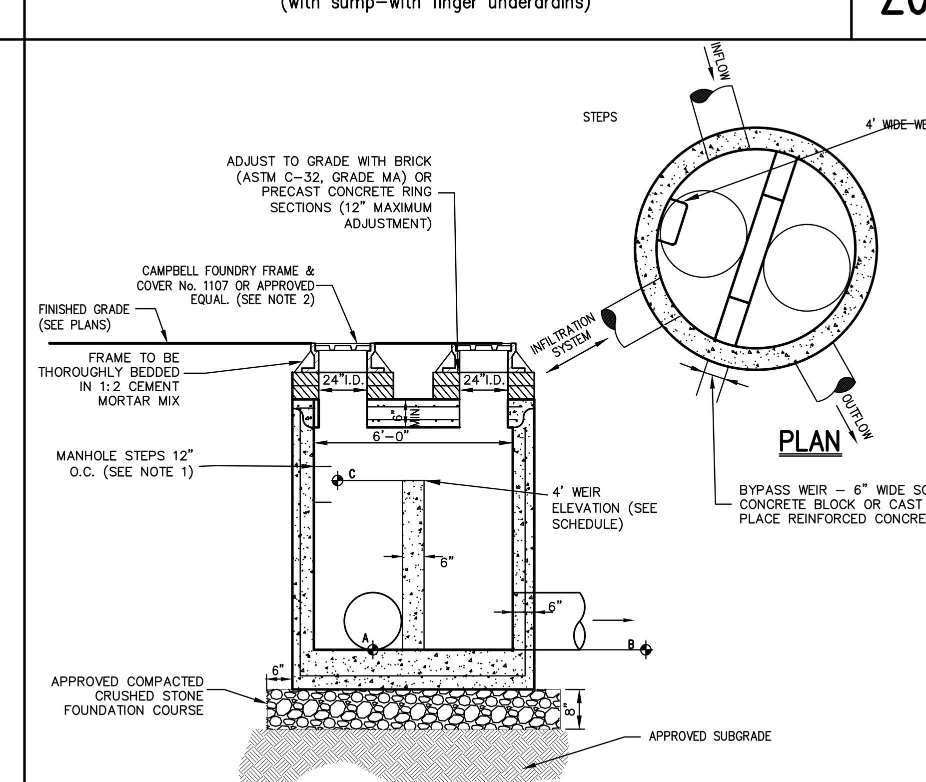
DRAIN INLET (TYPE DI) — 23
(with sump-w/o finger underdrains)



NOTE

1. SEE NOTES PERTAINING TO DRAIN INLETS UNDER UTILITY NOTES ON DRAWING C-901

LAWN INLET (TYPE LI) — 24
(with sump)



SCHEDULE OF INVERTS AND ELEVATIONS

OUTLET CONTROL STRUCTURE	A		B		C
	SIZE	INVERT	SIZE	INVERT	4' WEIR ELEVATION
OCS-A-4 (1B)	18" HDPE	203.25	18" HDPE	203.25	206.40

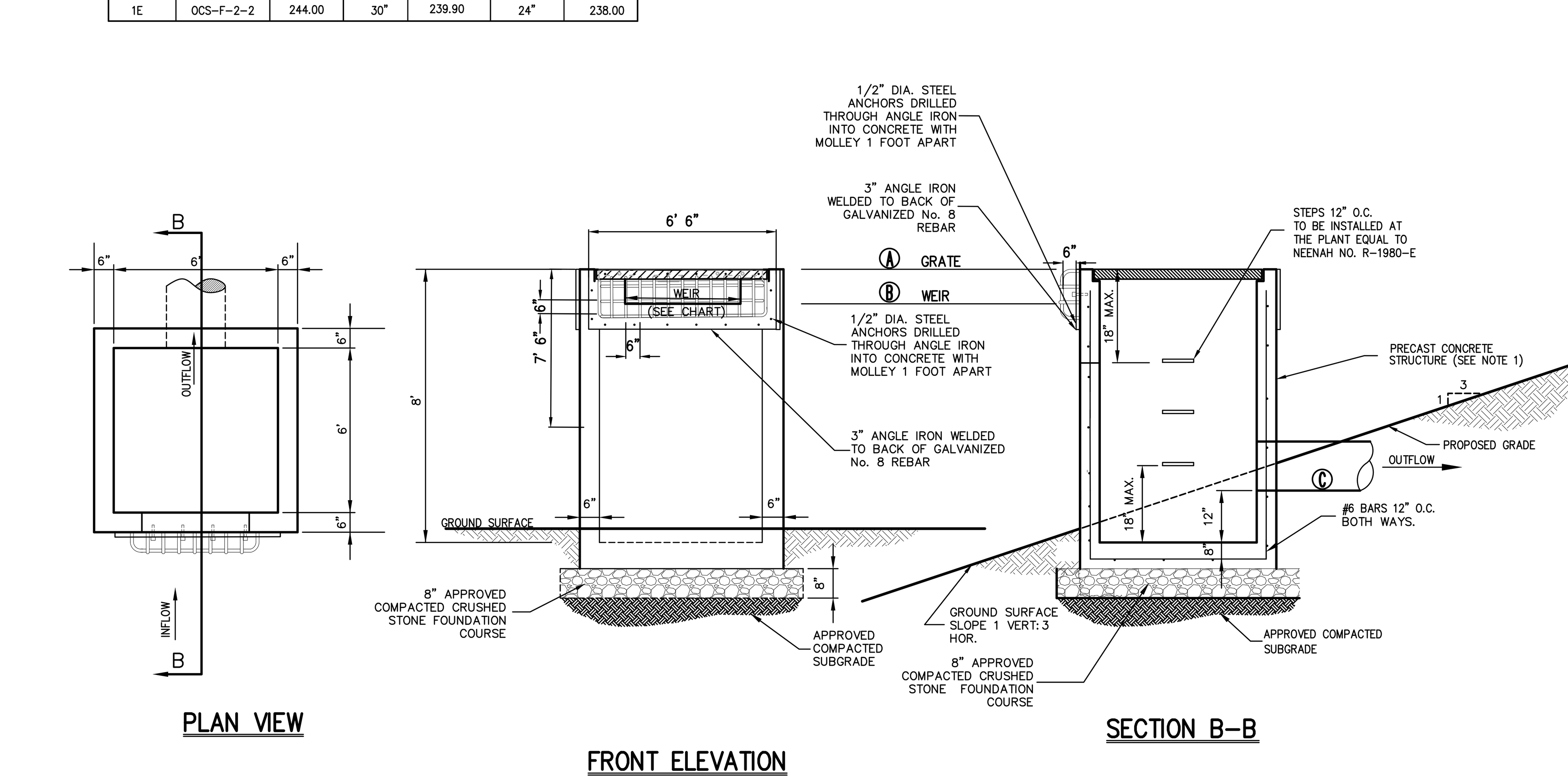
NOTES:

1. MANHOLE STEPS SHALL BE CAST IRON NEENAH No. R-1981-0 OR CAMPBELL FOUNDRY No. 2588-1 OR POLYPROPYLENE COATED STEEL (SEE SPECIFICATIONS) OR APPROVED EQUAL.
2. UNLESS OTHERWISE SPECIFIED, STORM DRAIN MANHOLES SHALL HAVE LETTERS "DRAIN" CAST ON COVER, THE COVERS SHALL HAVE VENT HOLES.
3. MANHOLES SHALL MEET OR EXCEED A.S.T.M. AND O.S.H.A. REQUIREMENTS.
4. SEE "NOTES PERTAINING TO MANHOLES" UNDER "UTILITY NOTES" ON THIS DRAWING
5. O-RING JOINTS TO CONFORM TO A.S.T.M. DESIGNATION C443 LATEST REVISION. JOINTS TO BE MORTARED INSIDE AND OUT USING NON- SHRINKING MORTAR
6. PRECAST MANHOLE SECTIONS TO BE IN ACCORDANCE WITH "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS" A.S.T.M. DESIGNATION C-478, LATEST REVISION, MINIMUM COMPRESSIVE STRENGTH TO BE 4000 P.S.I.

OUTLET CONTROL STRUCTURE (1B) — 25

STRUCTURE CHART

BASIN	STRUCTURE	GRATE (A)	WEIR (B)		OUTFLOW (C)	
No.	No.	ELEV.	SIZE	ELEV.	DIAMETER	ELEV.
1C	OCS-A-3-1	214.00	48"	212.45	15"	210.75
1D	OCS-D-2	220.00	18"	215.80	18"	214.00
1E	OCS-F-2-2	244.00	30"	239.90	24"	238.00



NOTES:

1. PRECAST CONCRETE STRUCTURE SHALL BE DESIGNED TO ACCOMMODATE AN H-20 DESIGN LOAD

OUTLET CONTROL STRUCTURE — 26

No.	Revision	Date	By
1.	PLANNING BOARD SUBMISSION	03/19/2021	BMS
2.	PLANNING BOARD SUBMISSION	06/22/2021	BMS

Previous Editions Obsolete

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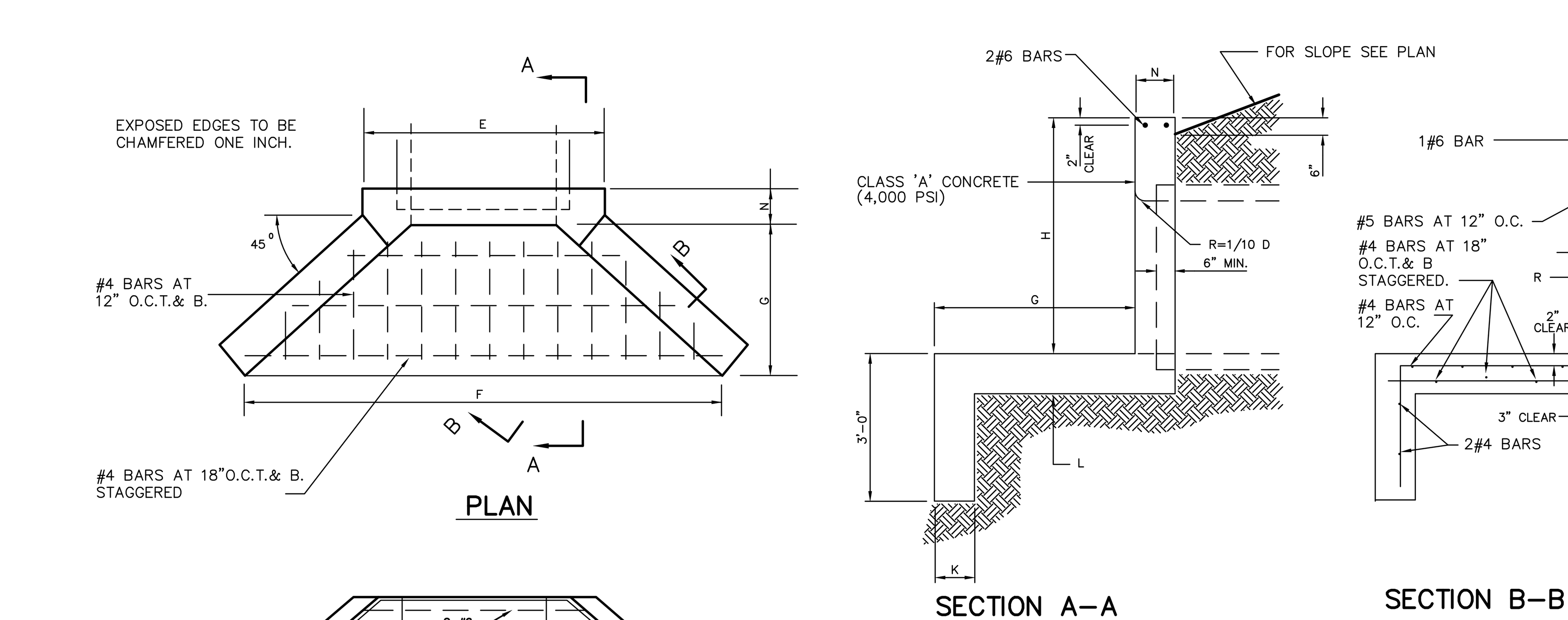
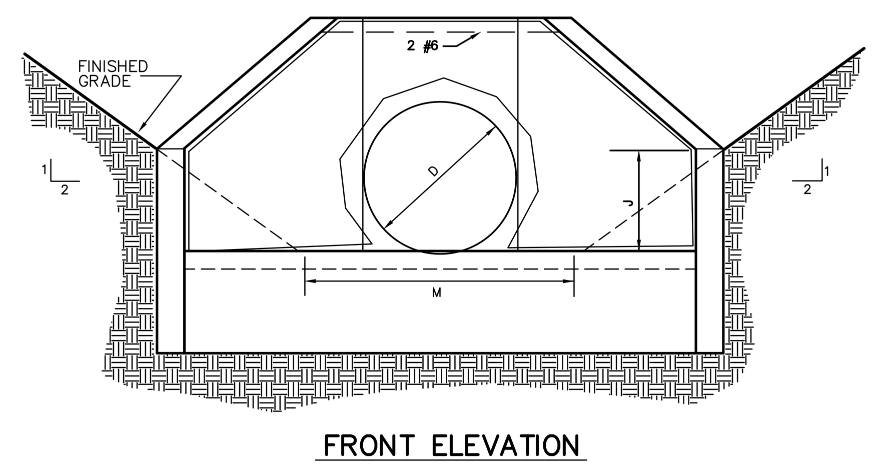
JMC

CONSTRUCTION DETAILS

OVERLOOK FARMS A FARRELL COMMUNITY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

Drawn:	BMS	Approved:	JS
Scale:	NOT TO SCALE		
Date:	03/19/2021		
Project No:	17088		
17088-DETAILS	C-901	-	
Drawing No:	C-901		





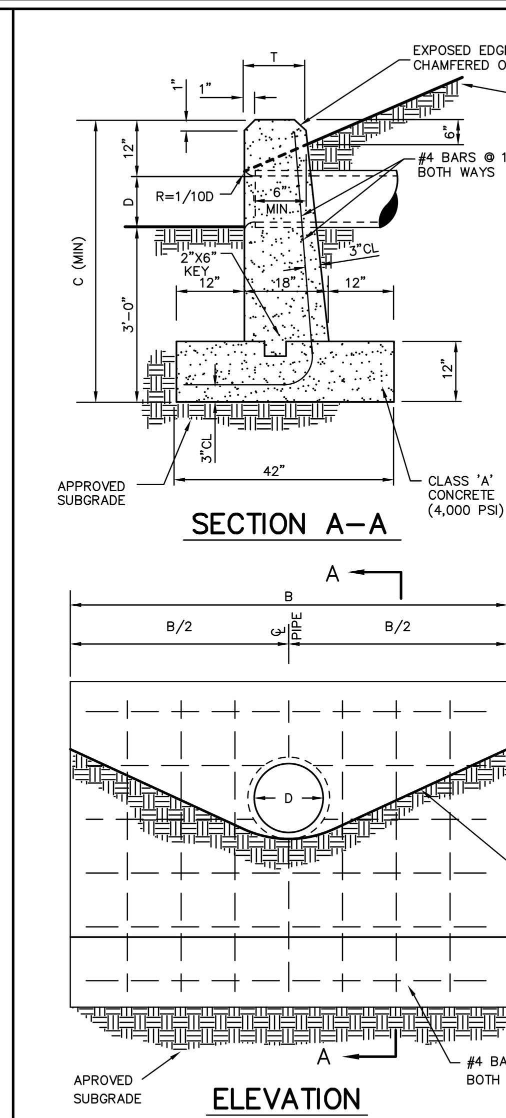
PLAN — SECTION A-A — SECTION B-B — FRONT ELEVATION

D	E	F	G	H	J	K	L	R	N
24"	3'-8"	8'-0"	3'-0"	3'-6"	J= (F−M)/4 +0'−6"	8"	8"	#5 @ 12"O.C.	8"
27"	3'-11"	8'-3"	3-0"	3'-9"		8"	8"	#5 @ 12"O.C.	8"
30"	4'-2"	8'-6"	3'-0"	4'-0"		8"	8"	#5 @ 12"O.C.	10"
36"	4'-8"	10'-0"	3'-6"	4'-6"		8"	10"	#5 @ 12"O.C.	10"
42"	5'-3"	11'-6"	4'-0"	5'-0"		8"	10"	#5 @ 12"O.C.	10"
48"	5'-10"	13'-0"	4'-6"	5'-6"		8"	10"	#5 @ 12"O.C.	12"
54"	6'-5"	14'-6"	5'-0"	6'-0"		9"	12"	#6 @ 8"O.C.	12"
60"	7'-0"	16'-0"	5'-6"	6'-6"		9"	12"	#6 @ 8"O.C.	12"
66"	7'-7"	17'-6"	6'-0"	7'-0"		9"	12"	#6 @ 8"O.C.	14"
72"	8'-2"	19'-0"	6'-6"	7-6"		9"	12"	#6 @ 8"O.C.	14"

M-WIDTH OF DITCH

TABLE OF DIMENSIONS

CONCRETE HEADWALL (TYPE A) — 27



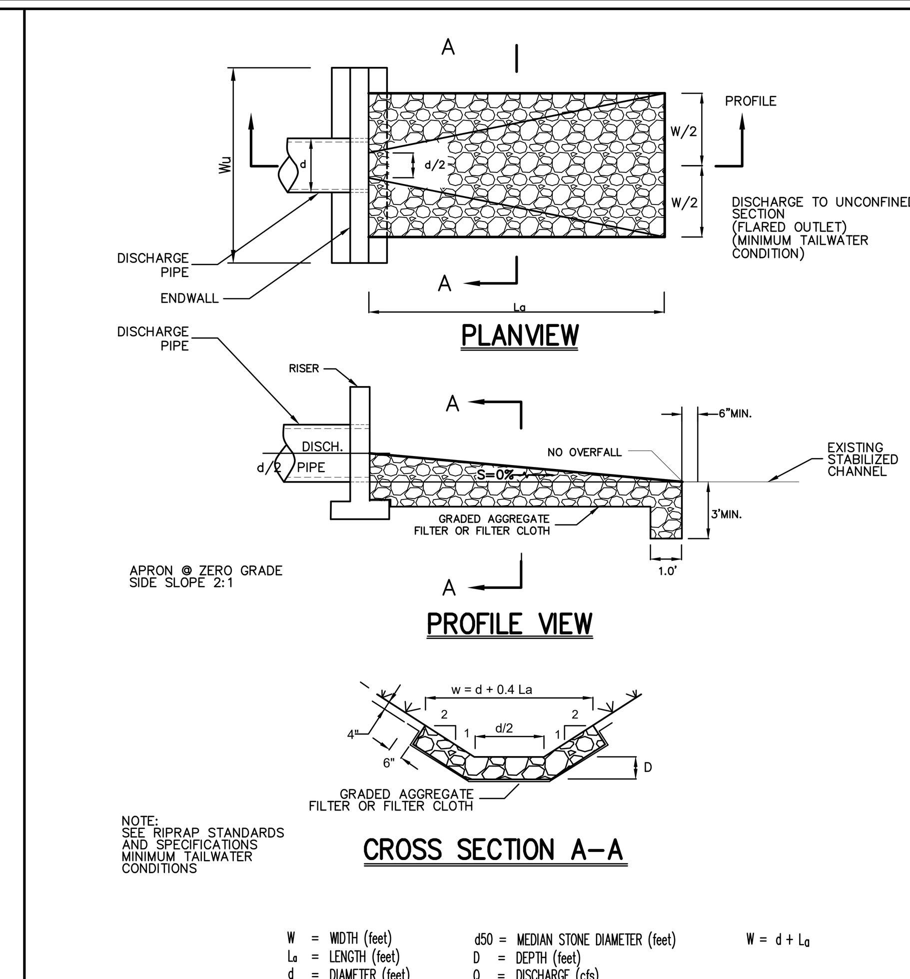
SECTION A-A — ELEVATION

			1.5:1 SLOPE	2:1 SLOPE	3:1 SLOPE
D	C MIN.	T	B	B	B
12"	5'-0"	8"	5'-0"	6'-0"	7'-0"
15"	5'-3"	8"	5'-6"	7'-0"	8'-9"
18"	5'-6"	8"	6'-0"	8'-0"	10'-6"
21"	5'-9"	10"	7'-0"	9'-0"	12'-3"
24"	6'-0"	10"	8'-0"	10'-0"	14'-0"
27"	6'-3"	12"	8'-6"	11'-0"	15'-9"
30"	6'-6"	12"	9'-0"	12'-0"	17'-6"
36"	7'-0"	12"	10'-6"	13'-6"	19'-6"
42"	7'-6"	12"	12'-0"	15'-0"	22'-6"
48"	8'-0"	12"	13'-6"	16'-6"	25'-6"
54"	8'-6"	12"	15'-0"	18'-0"	28'-6"

NOTE A

GROUND SLOPE TO BE 3 HORIZONTAL TO 1 VERTICAL UNLESS OTHERWISE SPECIFIED (SEE CHART)

STRAIGHT CONCRETE HEADWALL — 28

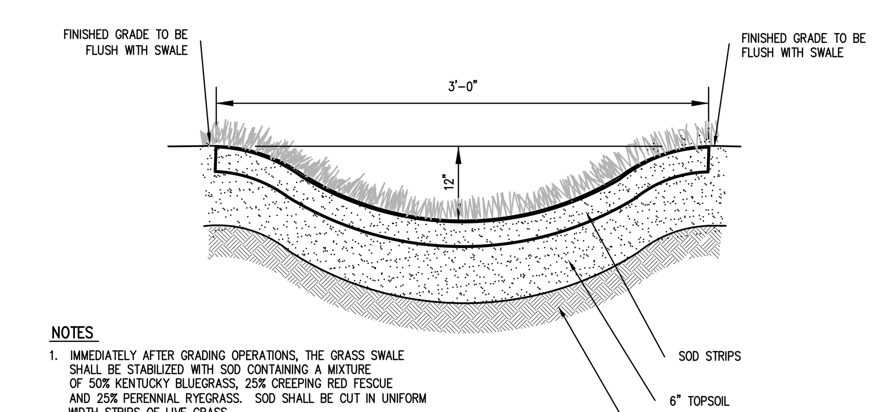


PLANVIEW — PROFILE VIEW — CROSS SECTION A-A

NOTE:
SEE RIPRAP STANDARDS AND SPECIFICATIONS MINIMUM TAILWATER CONDITIONS

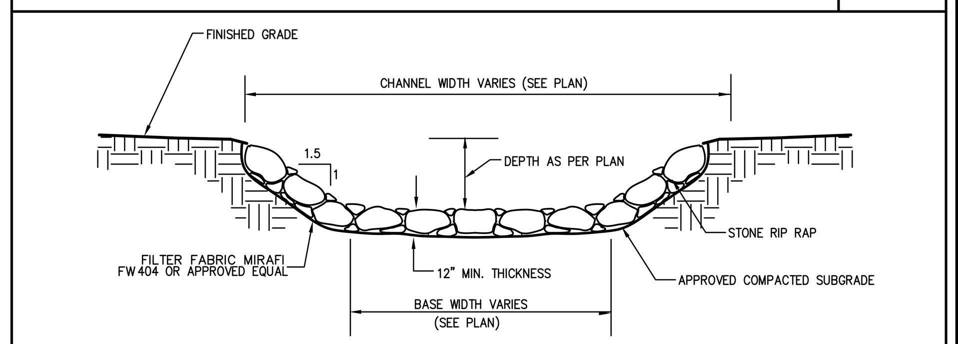
W = WIDTH (feet)
L = LENGTH (feet)
d = DIAMETER (feet)
d50 = MEDIAN STONE DIAMETER (feet)
D = DEPTH (feet)
Q = DISCHARGE (cfs)
W = d + La

RIP-RAP APRON — 29



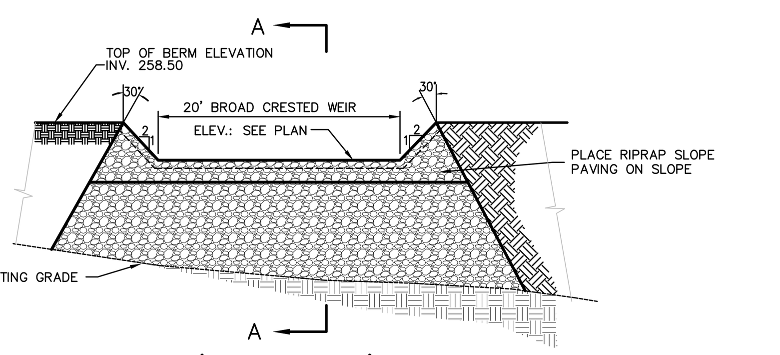
NOTES
1. IMMEDIATELY AFTER GRADING OPERATIONS, THE GRASS SWALE SHALL BE STABILIZED WITH SOD CONTAINING A MIXTURE OF 50% KENTUCKY BLUEGRASS, 25% CREEPING RED FESCUE AND 25% PERENNIAL RYEGRASS. SOD SHALL BE CUT IN UNIFORM WIDTH STRIPS OF LIVE GRASS.
2. FOR SWALE SLOPES EXCEEDING 8%, JUTE MESH SHALL BE UTILIZED TO STABILIZE THE SWALE BASE.
3. AREA ADJACENT TO SWALE TO BE BROUGHT TO FINISHED GRADE IMMEDIATELY AS REQUIRED, TOPSOILED, SEEDED AND MAINTAINED FOR EROSION CONTROL.

GRASS SWALE — 30



NOTE:
AREA ADJACENT TO CHANNEL TO BE BROUGHT TO FINISHED GRADE IMMEDIATELY AS REQUIRED, TOPSOILED, SEEDED AND MAINTAINED FOR EROSION CONTROL.

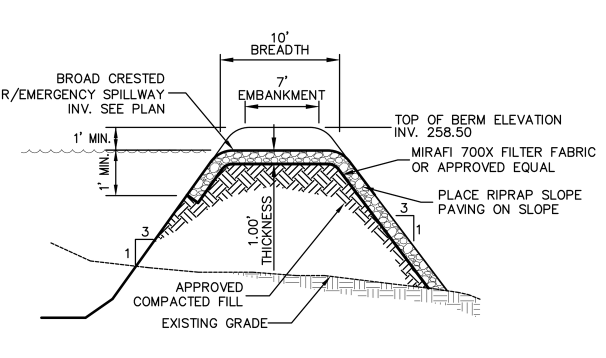
STONE RIP RAP CHANNEL — 31



ELEVATION (DOWNSTREAM)

SPECIFICATION FOR BERM CONSTRUCTION

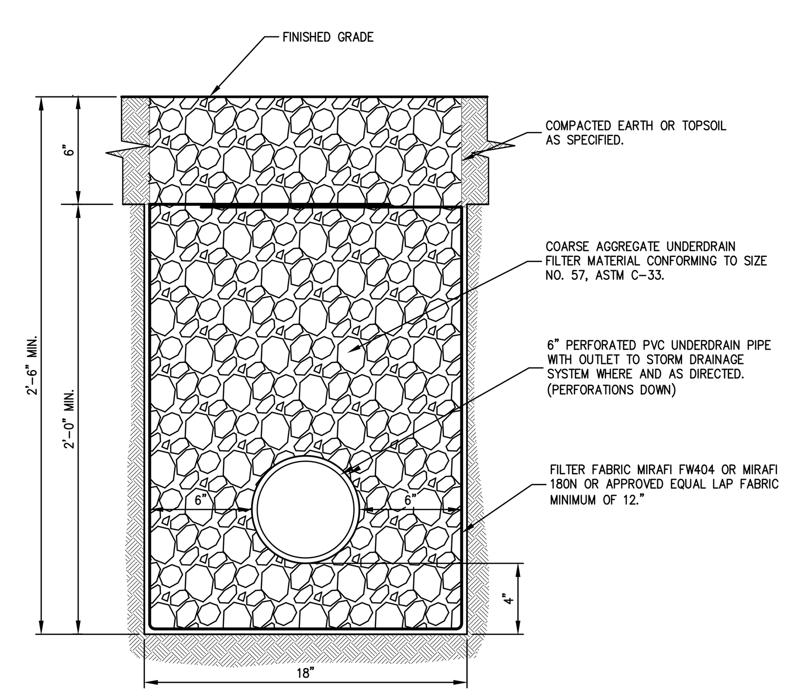
A. SURFACE OF AREA TO RECEIVE FILL SHOULD BE STRIPPED OF SURFACE TOPSOIL, BRUSH, ETC., PRIOR TO ANY FILL PLACEMENT.
B. EMBANKMENT FILL TO BE SPREAD IN MAXIMUM 12-INCH THICK LIFTS AND COMPACTED TO 95 PERCENT OF MODIFIED PROCTOR DENSITY (ASTM 1557) AT PLUS OR MINUS 2 PERCENT OF OPTIMUM MOISTURE CONTENT.
C. FILL CONSTRUCTION TO BE DONE UNDER THE INSPECTION OF A QUALIFIED SOILS ENGINEER. IN-PLACE FIELD DENSITY TESTS SHOULD BE DONE ON EACH LIFT TO DETERMINE THAT THE SPECIFICATIONS ARE BEING MET.



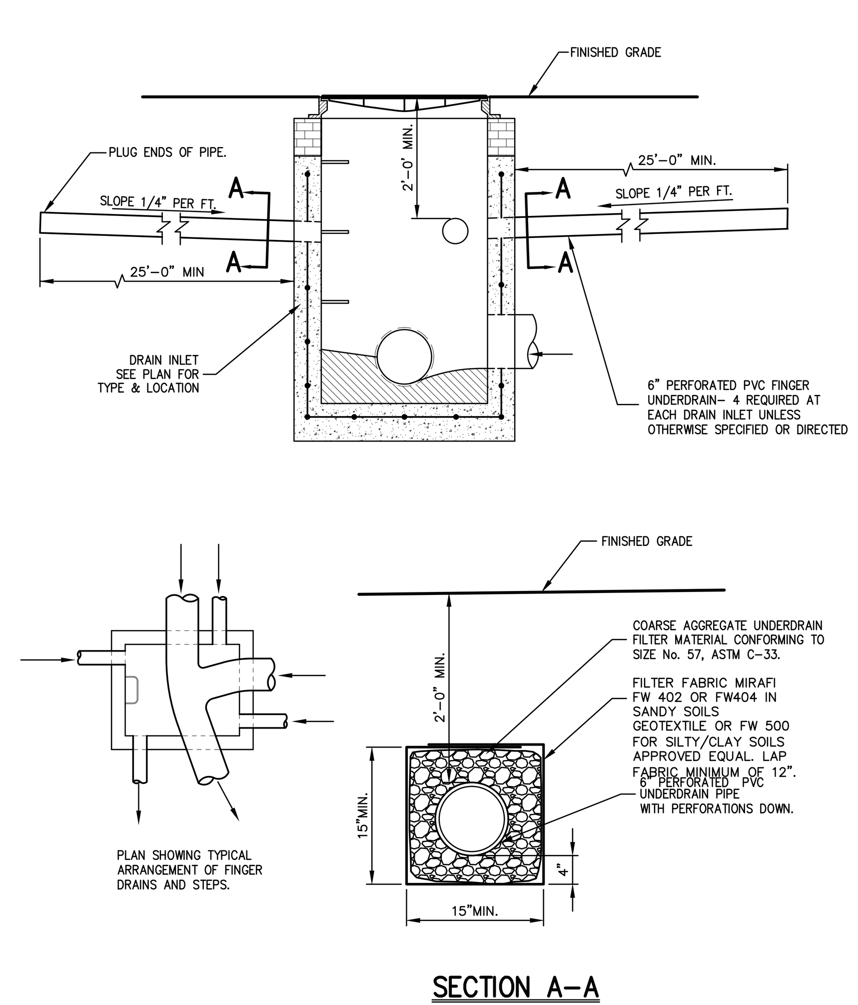
SECTION 'A-A'

NOTE:
PROJECT GEOTECHNICAL ENGINEER SHALL DESIGN BERM AROUND INFILTRATION BASIN BASED ON EXISTING SOILS CONDITIONS PRIOR TO CONSTRUCTION.

RIP-RAP EMERGENCY SPILLWAY — 32



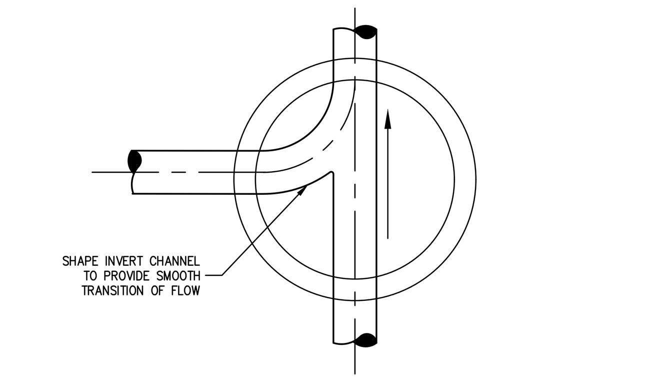
PIPE UNDERDRAIN (EXPOSED GRAVEL) — 33



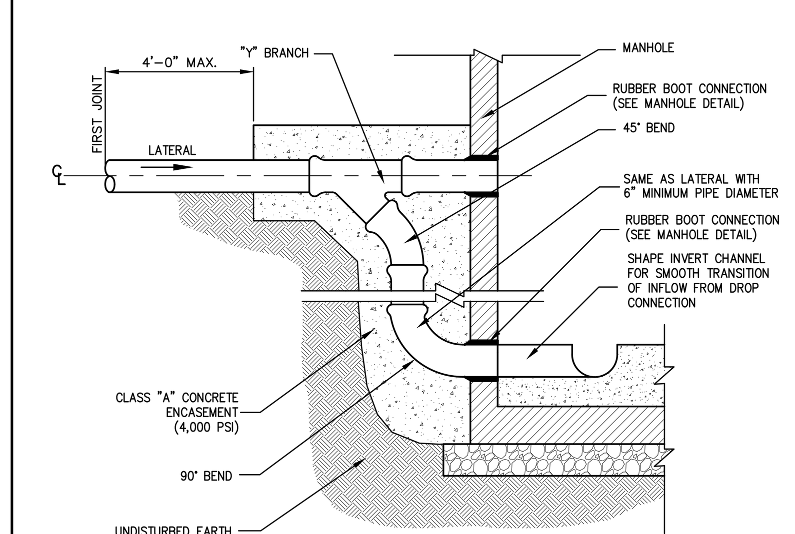
SECTION A-A

NOTE:
1. LOCATIONS OF FINGER DRAINS MAY VARY FROM THAT AS SHOWN DEPENDING UPON NUMBER AND SIZE OF STORM DRAIN LINES ENTERING AND EXITING THE STRUCTURE.

FINGER UNDERDRAIN — 34

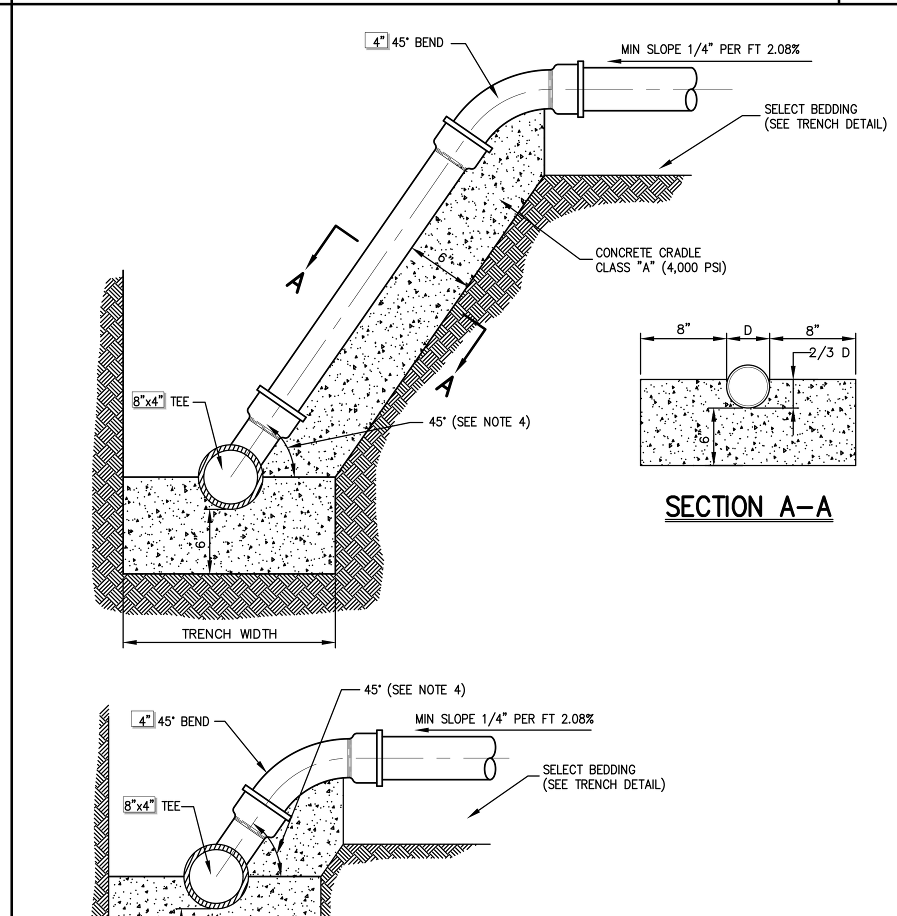


PLAN OF INVERT CHANNEL



NOTES:
1. DROP CONNECTION SHALL BE USED WHEN INCOMING SANITARY SEWER IS 2'-0" OR HIGHER THAN THE OUTGOING SEWER.
2. PIPE SIZE OF DROP CONNECTION SHALL BE THE SAME SIZE AS LATERAL WITH 6" MINIMUM DIAMETER.

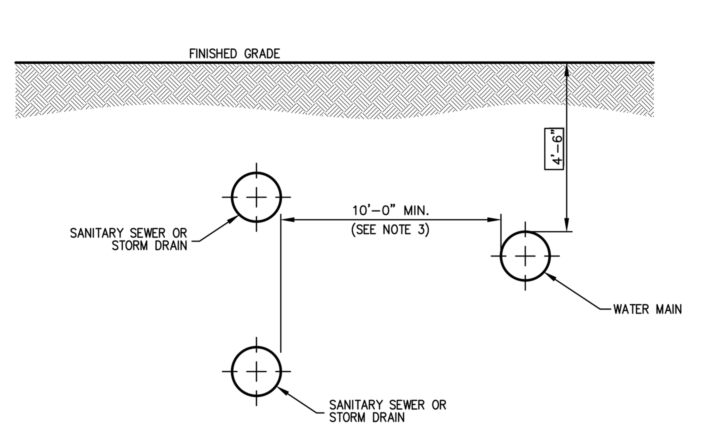
DROP CONNECTION AT MANHOLE (SANITARY SEWER) — 35



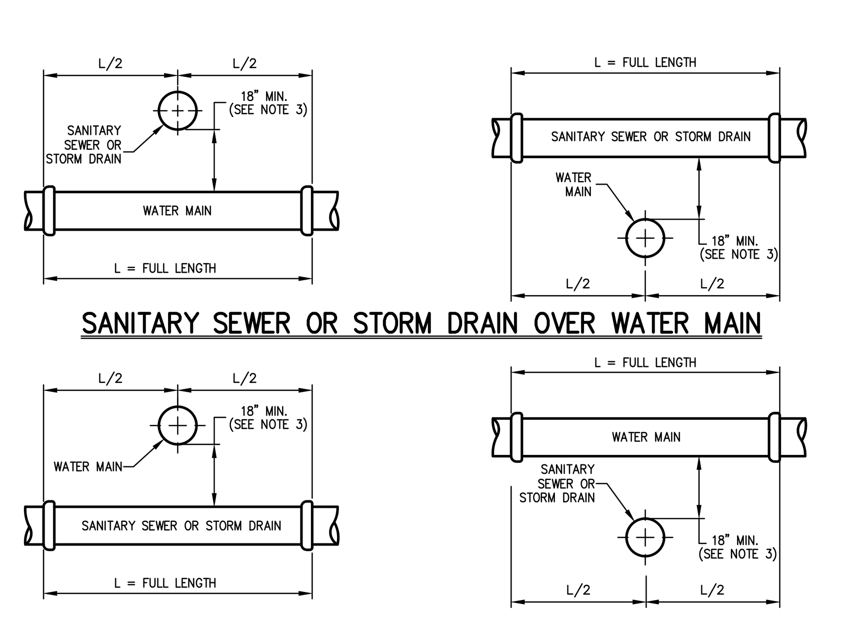
SECTION A-A

NOTES:
1. ALL SERVICE LINES SHALL HAVE A MINIMUM OF FOUR (4) FEET OF COVER.
2. SERVICE LINE LOCATION, GRADE AND ALIGNMENT SHALL BE AS SHOWN ON DRAWINGS OR AS DIRECTED BY THE OWNER'S FIELD REPRESENTATIVE.
3. WHERE SERVICE LINES ARE TO BE DEAD-ENDED, CONTRACTOR SHALL INSTALL APPROVED WATERTIGHT AND PRESSURE-TIGHT PLUGS.
4. IF MINIMUM COVER CANNOT BE ATTAINED WHILE MAINTAINING MINIMUM SLOPE, THE ANGLE OF CONNECTION MAY BE REDUCED TO 22.5°, IF APPROVED BY THE OWNER'S FIELD REPRESENTATIVE AND GOVERNING BODY WITH JURISDICTION.
5. SANITARY SEWER SERVICE LINE INCLUDING FITTINGS SHALL BE PVC, SDR 35.

SANITARY SEWER SERVICE CONNECTION — 36



HORIZONTAL SEPARATION



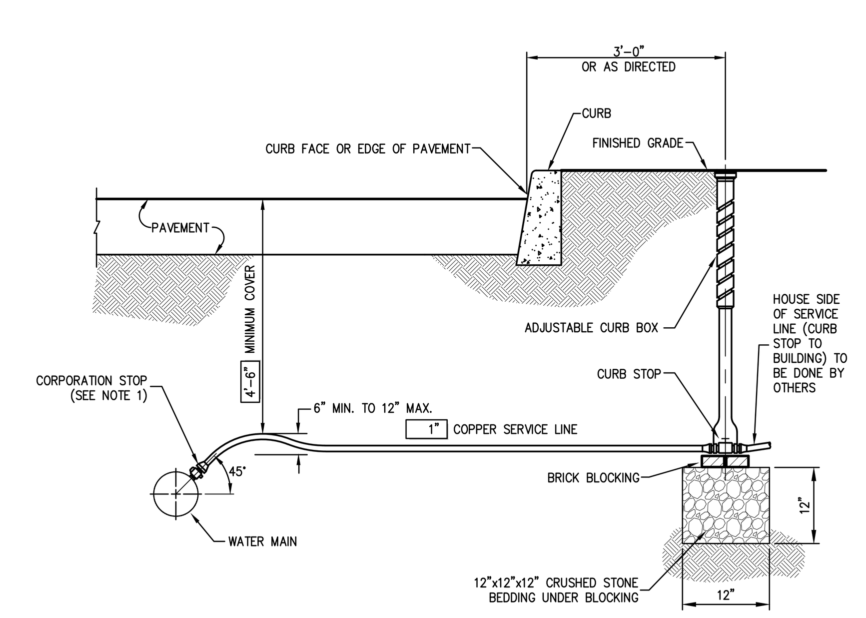
SANITARY SEWER OR STORM DRAIN OVER WATER MAIN

WATER MAIN OVER SANITARY SEWER OR STORM DRAIN

VERTICAL SEPARATION

NOTES:
1. NORMAL CONDITIONS:
   A. WHENEVER A WATER MAIN MUST CROSS OVER OR UNDER A SANITARY SEWER OR STORM DRAIN, THE PIPES SHALL BE LAID TO PROVIDE A VERTICAL SEPARATION BETWEEN THEM OF AT LEAST 18 INCHES, AS MEASURED FROM THE BOTTOM OF THE HIGHER PIPE TO THE CROWN OF THE LOWER PIPE.
   B. FULL LENGTH OF WATER PIPE MUST BE CENTERED AT THE POINT OF CROSSING; NO JOINTS WILL BE PERMITTED AT THE POINT OF CROSSING.
2. WATER MAIN CROSSING UNDER SANITARY SEWERS:
   A. VERTICAL SEPARATION OF 18 INCHES MUST BE PROVIDED.
   B. ADEQUATE STRUCTURAL SUPPORT MUST BE PROVIDED FOR THE SANITARY SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING.
   C. FULL LENGTH OF WATER PIPE MUST BE CENTERED AT THE POINT OF CROSSING; NO JOINTS WILL BE PERMITTED AT THE POINT OF CROSSING.
3. IF DURING CONSTRUCTION IT IS FOUND THAT THE REQUIRED SEPARATION OF WATER MAINS, SANITARY SEWERS, STORM SEWERS AND BUILDING SANITARY SEWERS CANNOT BE MET, THE CONTRACTOR OR HIS AUTHORIZED REPRESENTATIVE SHALL IN WRITING ADVISE JOHN MEYER CONSULTING OF THE SPECIFIC CONDITIONS ENCOUNTERED. APPROVAL OF ALTERNATIVE SEPARATION CRITERIA SHALL BE OBTAINED FROM THE PRIOR TO INSTALLATION.

SEPARATION OF WATER AND SANITARY SEWER/STORM DRAIN LINES — 37

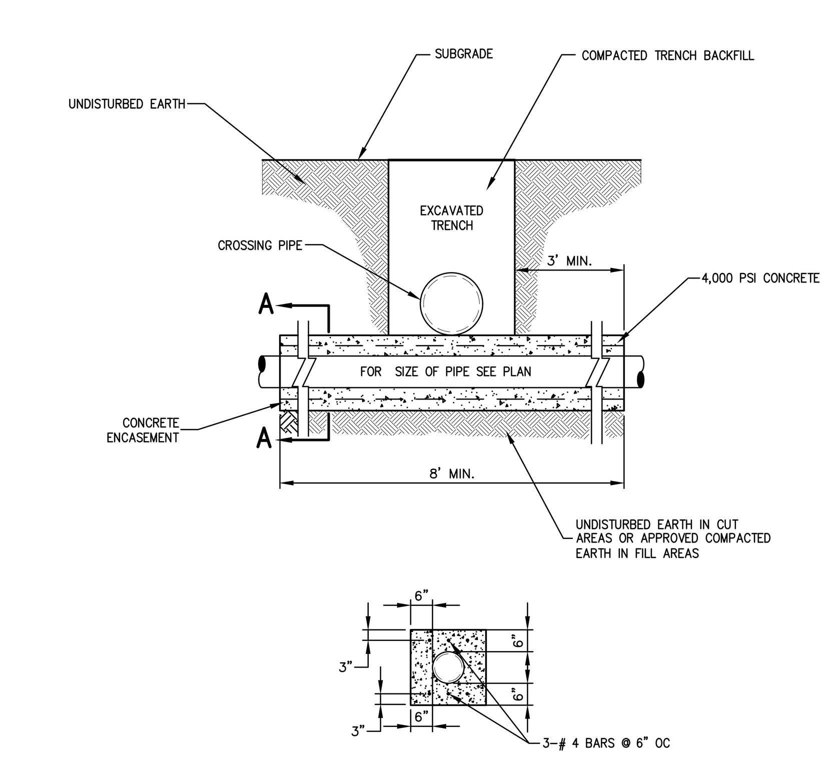


SERVICE LINE REQUIREMENTS

SIZE	SERVICE LINE(MATERIALS)	CORPORATION STOP	CURB STOP	CURB BOX	ENLARGED BASE
3/4"	COPPER, TYPE K	H-15008 N	H-15214 N	H-10308	Not Applicable
1"	COPPER, TYPE K	H-15008 N	H-15214 N	H-10308	Not Applicable
1-1/2"	COPPER, TYPE K	H-15013 N	H-15214 N	H-10310	Not Applicable
2"	COPPER, TYPE K	H-15013 N	H-15214 N	H-10310	H-10349

NOTES:
1. INSTALLATION OF 1-1/2" AND 2" CORPORATION STOPS SHALL BE MADE IN THE UPPER PIPE QUADRANT, BUT MAY BE MADE AT ANGLES LESS THAN 45° IF APPROVED BY THE OWNER'S FIELD REPRESENTATIVE.
2. SERVICE LINE SHALL HAVE NO JOINTS BETWEEN THE WATER MAIN AND CURB STOP.
3. CORPORATION STOP, CURB STOP, CURB BOX AND ENLARGED BASE FOR CURB BOX SHALL BE MUELLER COMPANY OR APPROVED EQUAL. CATALOG NUMBERS SHOWN REFER TO MUELLER COMPANY.
4. ALL SERVICE BRASS SHALL COMPLY WITH AWWA C-800. COMPONENTS IN CONTACT WITH POTABLE WATER SHALL ALSO COMPLY WITH LATEST REQUIREMENTS OF THE FEDERAL SAFE DRINKING WATER ACT.

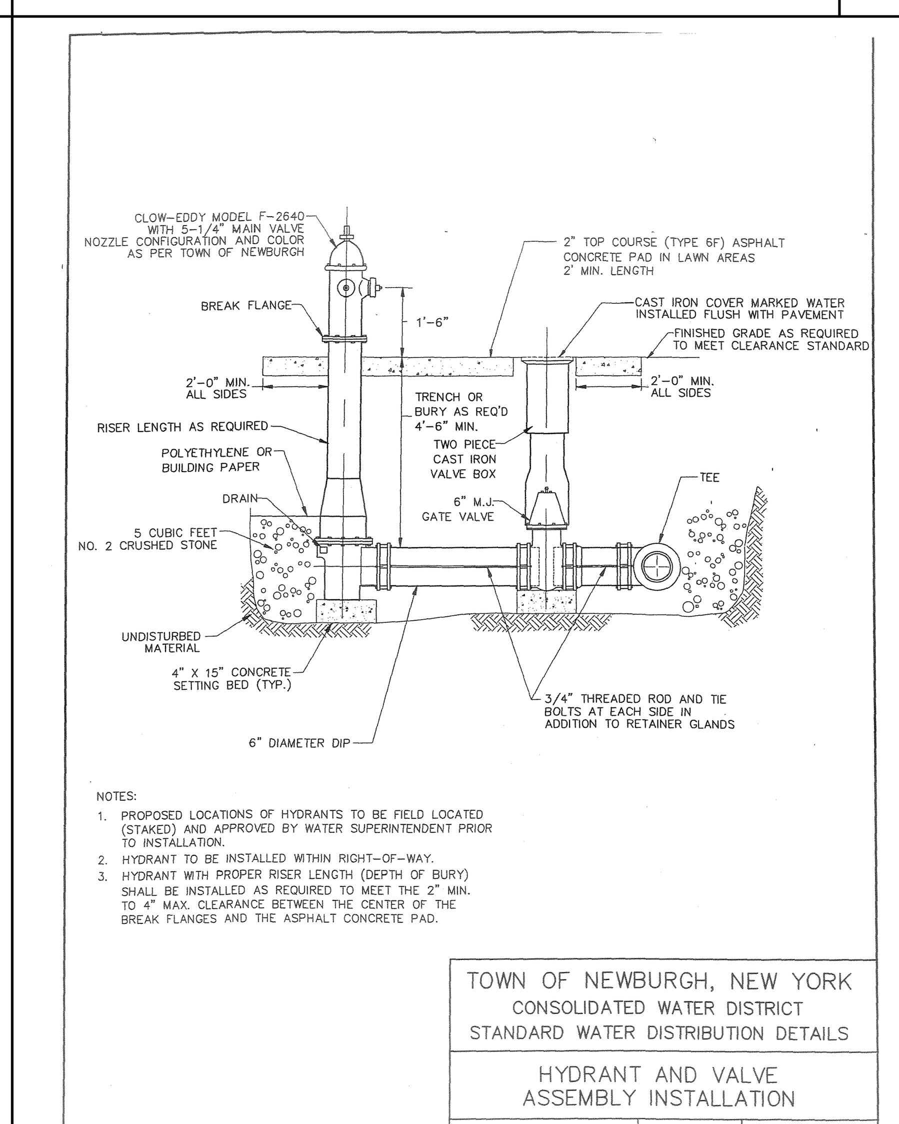
WATER SERVICE CONNECTION (2" OR LESS) — 38



SECTION A-A

NOTE:
1. FULL LENGTH OF PIPE TO BE USED AT CROSSING. PIPE TO BE CENTERED ON CENTERLINE OF CROSSING PIPE, NO JOINTS SHALL BE LOCATED WITHIN THE AREA OF CONCRETE ENCASEMENT.

CONCRETE ENCASEMENT — 39



HYDRANT AND VALVE ASSEMBLY INSTALLATION — 40

No.	Revision	Date	By
1.	PLANNING BOARD SUBMISSION	03/19/2021	BMS
2.	PLANNING BOARD SUBMISSION	06/22/2021	BMS

Previous Editions Obsolete

APPLICANT: FARRELL COMMUNITIES AT OVERLOOK PONDS LLC
P.O. BOX 14
BRIDGEHAMPTON, NY 11932

ARCHITECT: PETER F. GATO & ASSOCIATES
102 WALLER AVENUE
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JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
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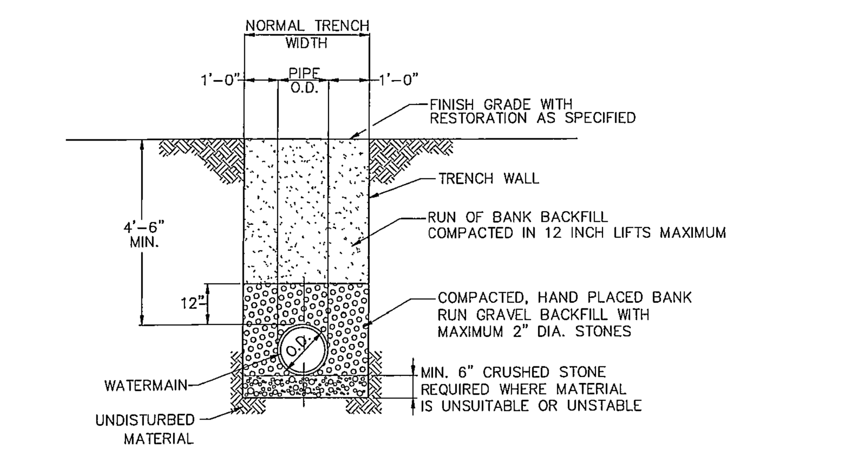
John Meyer Consulting, Inc.
120 BEDFORD ROAD • ARMONK, NY 10504
voice 914.273.5225 • fax 914.273.2102
www.jmcpllc.com

CONSTRUCTION DETAILS

OVERLOOK FARMS A FARRELL COMMUNITY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

Drawn: BMS Approved: JS
Scale: NOT TO SCALE
Date: 03/19/2021
Project No: 17088
17088-DETAILS C-902 –
Drawing No: C-902



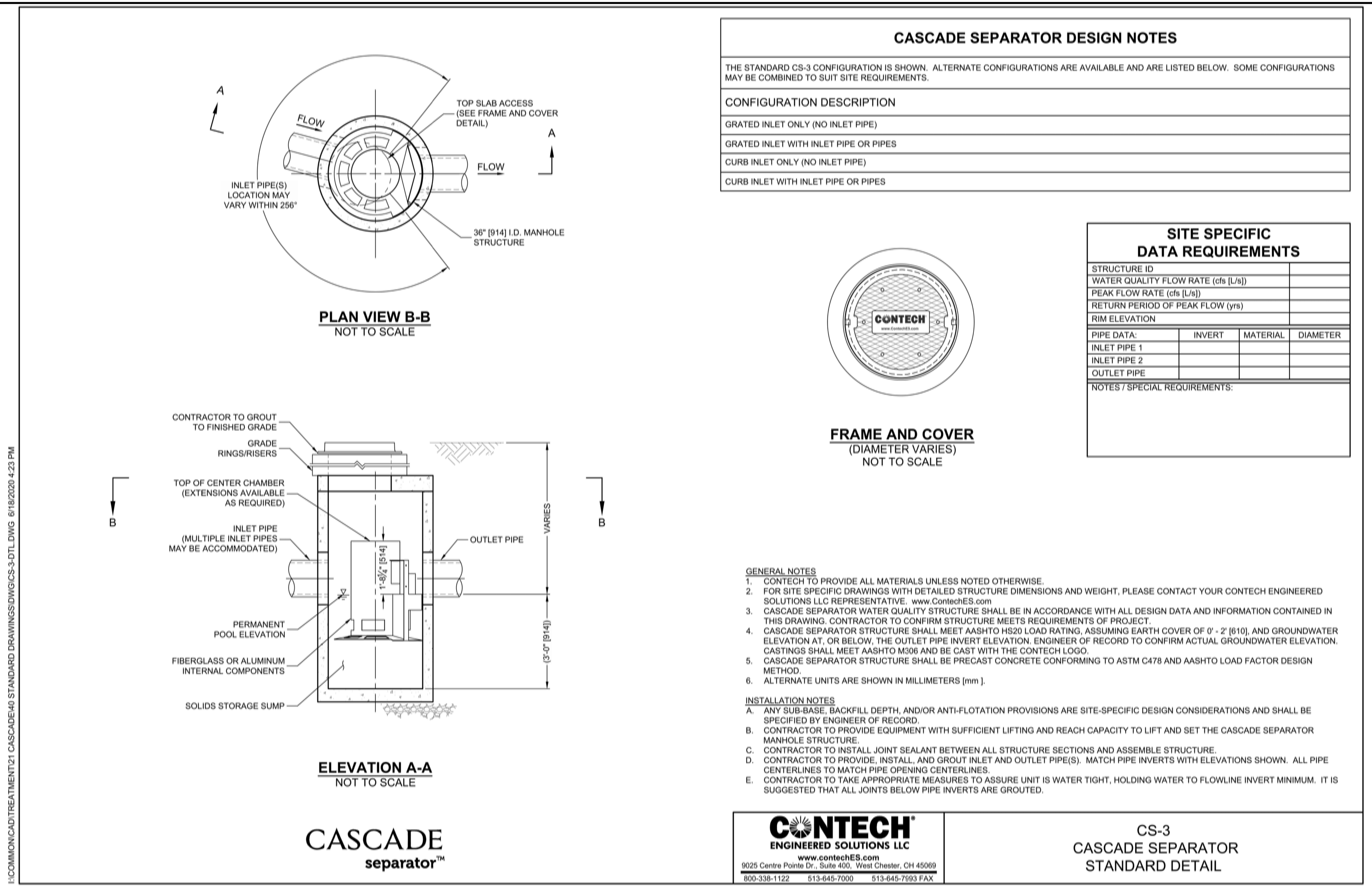
NOTE: MAXIMUM DEPTH OF COVER NOT TO EXCEED 6' WITHOUT APPROVAL OF TOWN WATER SUPERINTENDENT.

TOWN OF NEWBURGH, NEW YORK
CONSOLIDATED WATER DISTRICT
STANDARD WATER DISTRIBUTION DETAILS

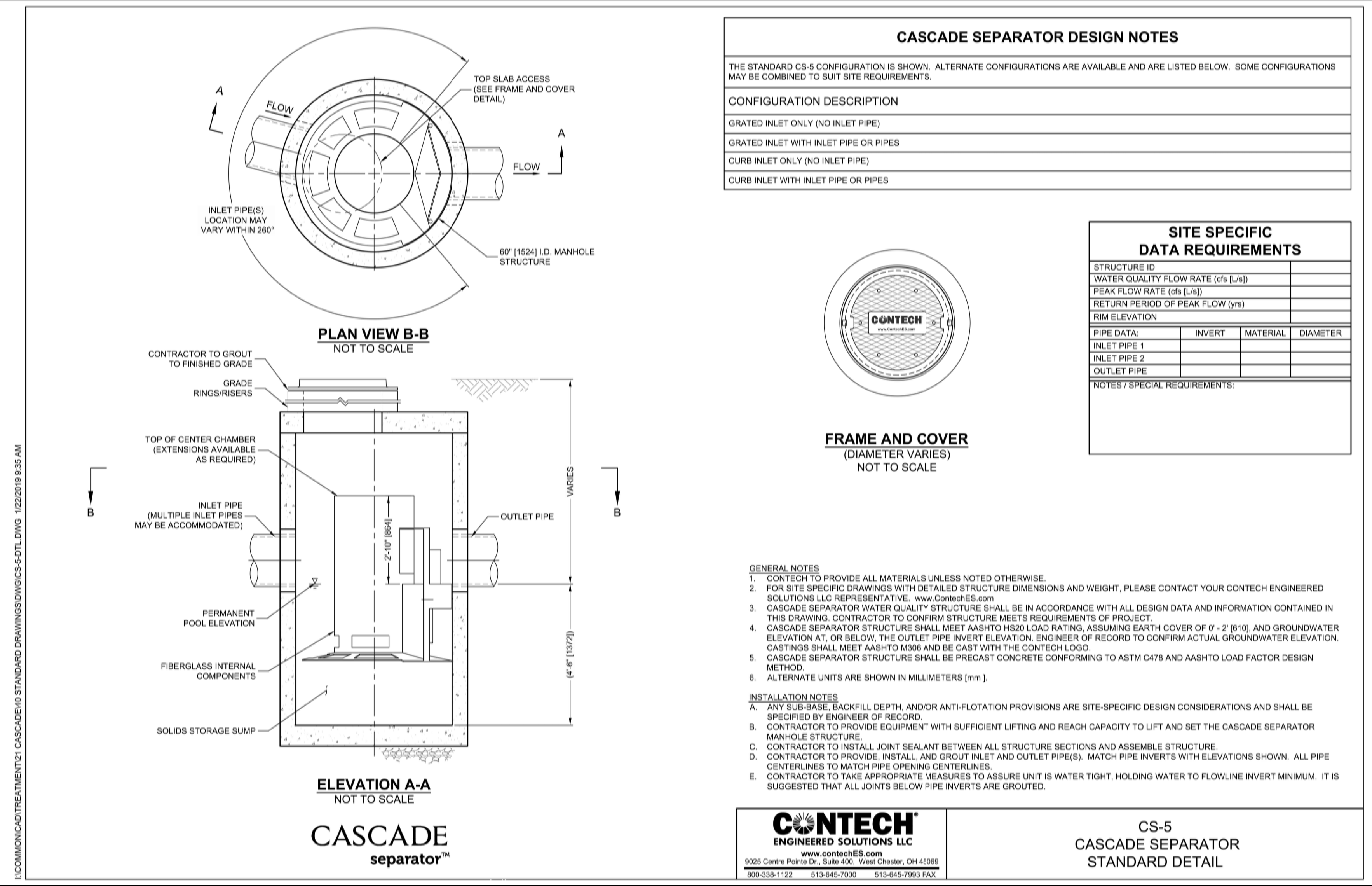
WATERMAIN TRENCH EXCAVATION AND BACKFILL (OUTSIDE OF PAVEMENT)

DATE: NOVEMBER 2001 | BY: CLD | NO SCALE

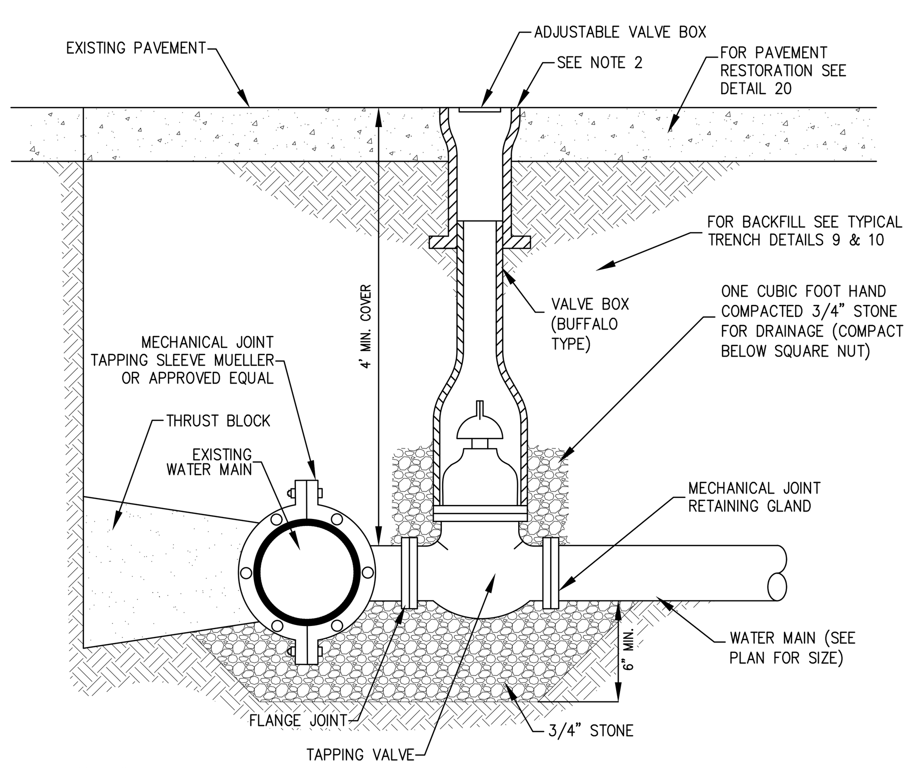
WATERMAIN TRENCH EXCAVATION AND BACKFILL — 41



WATER QUALITY STRUCTURE CS-3 — 42



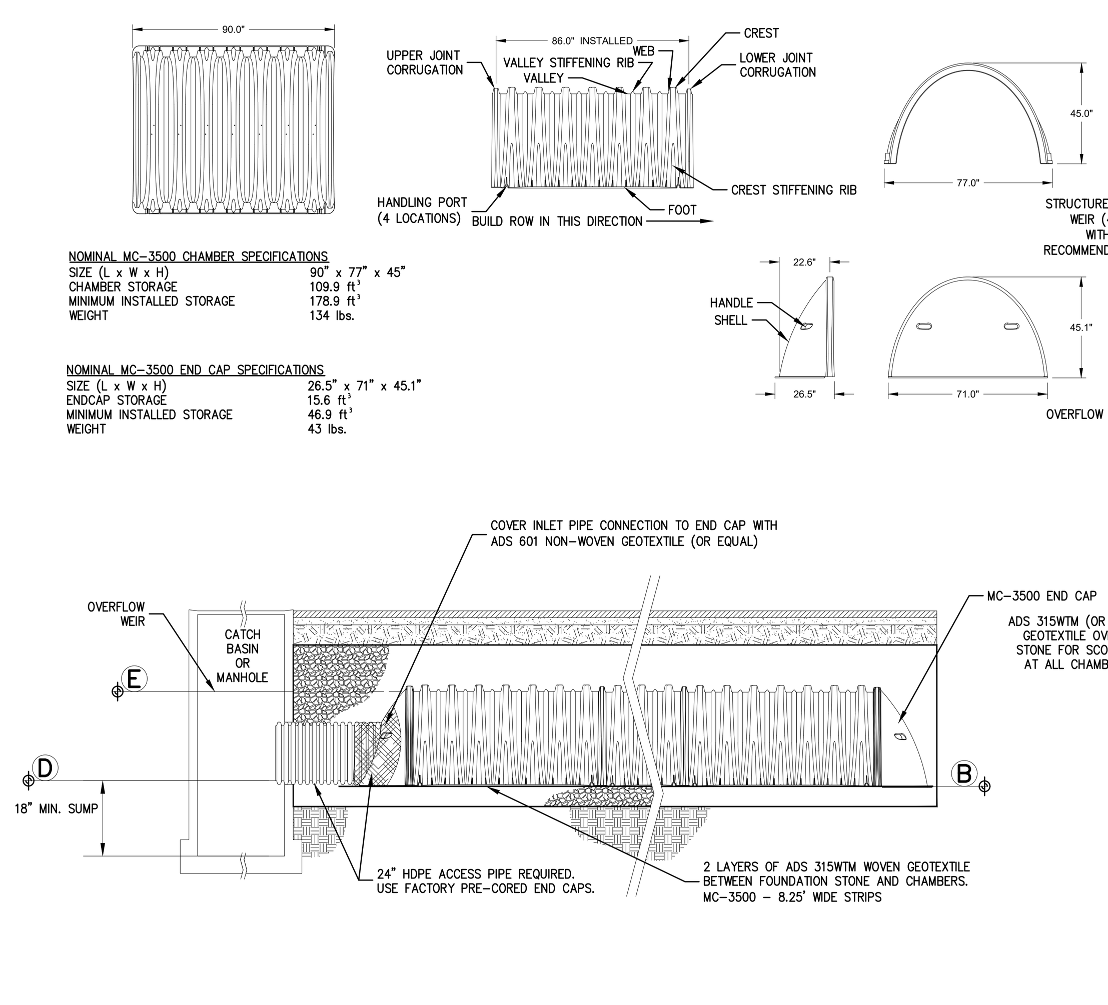
WATER QUALITY STRUCTURE CS-5 — 43



NOTES:

1. MAXIMUM BRANCH TAP IS MAIN DIAMETER – 2".
2. PROVIDE TWO LAYERS OF 15# ASPHALT FELT ROOFING PAPER BETWEEN VALVE BOX AND CONCRETE COLLAR TO PREVENT CONCRETE FROM ADHERING TO RISER.

WET TAP MAIN CONNECTION — 44



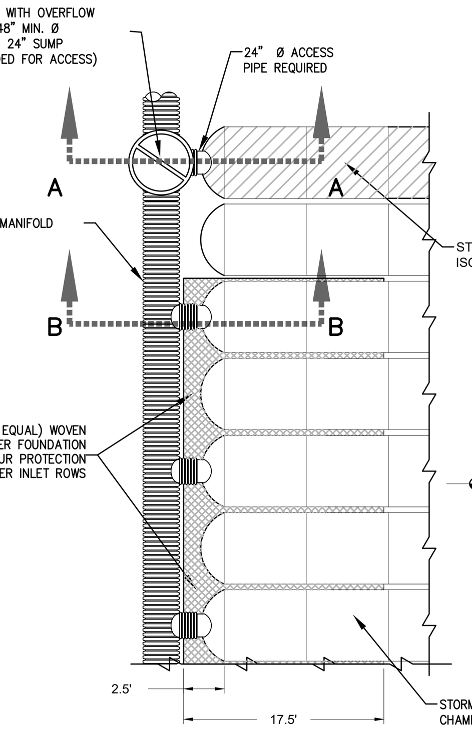
NOMINAL MC-3500 CHAMBER SPECIFICATIONS
SIZE (L x W x H) 90" x 77" x 45"
CHAMBER STORAGE 109.9 ft³
MINIMUM INSTALLED STORAGE 178.9 ft³
WEIGHT 134 lbs.

NOMINAL MC-3500 END CAP SPECIFICATIONS
SIZE (L x W x H) 26.5" x 71" x 45.1"
ENDCAP STORAGE 15.6 ft³
MINIMUM INSTALLED STORAGE 46.9 ft³
WEIGHT 43 lbs.

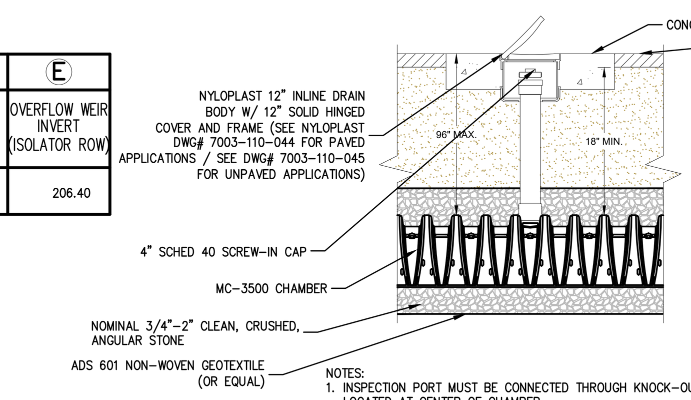
SECTION AT ISOLATOR ROW

SCHEDULE OF INVERTS

DESIGNATION	(A) BOTTOM OF STONE	(B) CHAMBER BOTTOM	(C) MANIFOLD & STUB INVERT	(D) ISOLATOR ROW PIPE INVERT	(E) OVERFLOW WEIR INVERT (ISOLATOR ROW)
UI–1B	202.50	203.25	202.50	202.50	206.40



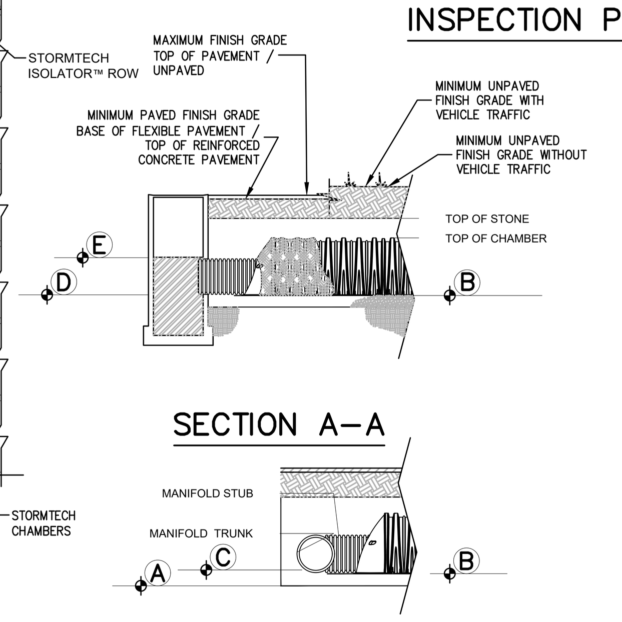
PLAN VIEW



NOTES:

1. INSPECTION PORT MUST BE CONNECTED THROUGH KNOCK-OUT LOCATED AT CENTER OF CHAMBER.
2. ALL SCHEDULE 40 FITTINGS TO BE SOLVENT CEMENTED.

INSPECTION PORT DETAIL



SECTION A–A

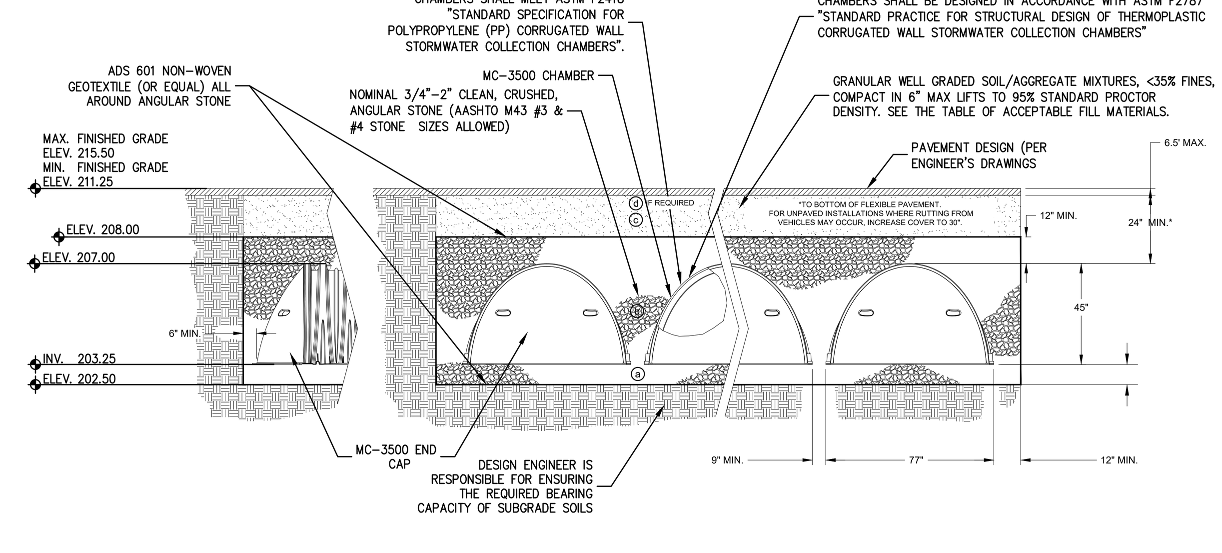
SECTION B–B

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO M43 DESIGNATION[1]	COMPACTION/DENSITY REQUIREMENT
(d) FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
(c) FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THIS LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, < 35% FINES. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTION AFTER 24" OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" MAX LIFTS TO A MIN. 95% STANDARD PROCTOR DENSITY.
(b) EMBEDMENT STONE SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4 – 2 INCH	3, 4	NO COMPACTION REQUIRED.
(a) FOUNDATION STONE BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4 – 2 INCH	3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY [2].

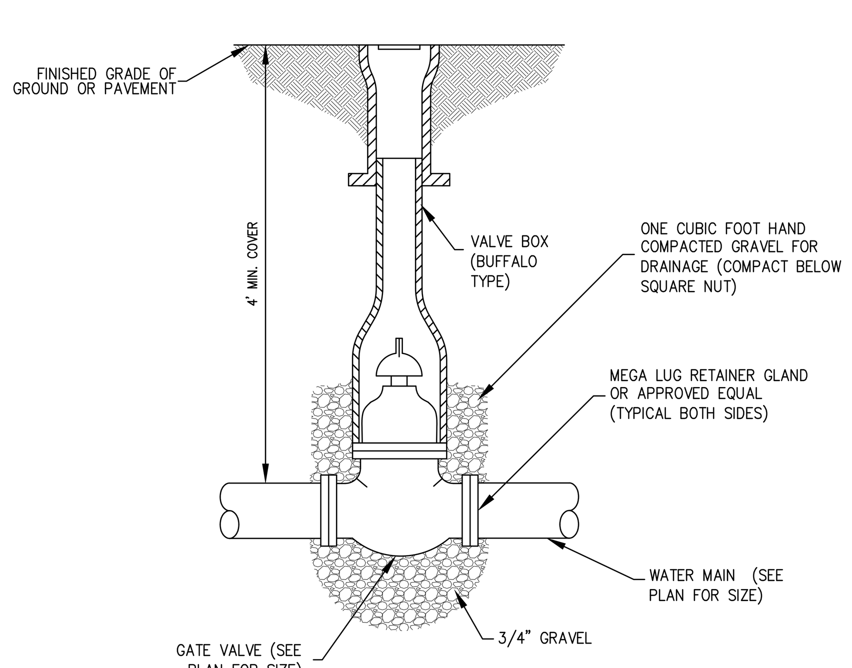
PLEASE NOTE:

1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. AS AN ALTERNATE TO PROCTOR TESTING AND FIELD DENSITY MEASUREMENTS ON OPEN GRADED STONE, STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (MAX) LIFTS USING TWO FULL COVERAGES WITH AN APPROPRIATE COMPACTOR.



SECTION AT DETENTION AND WATER QUALITY CONTROL

STORMTECH CHAMBERS MC-3500 — 45



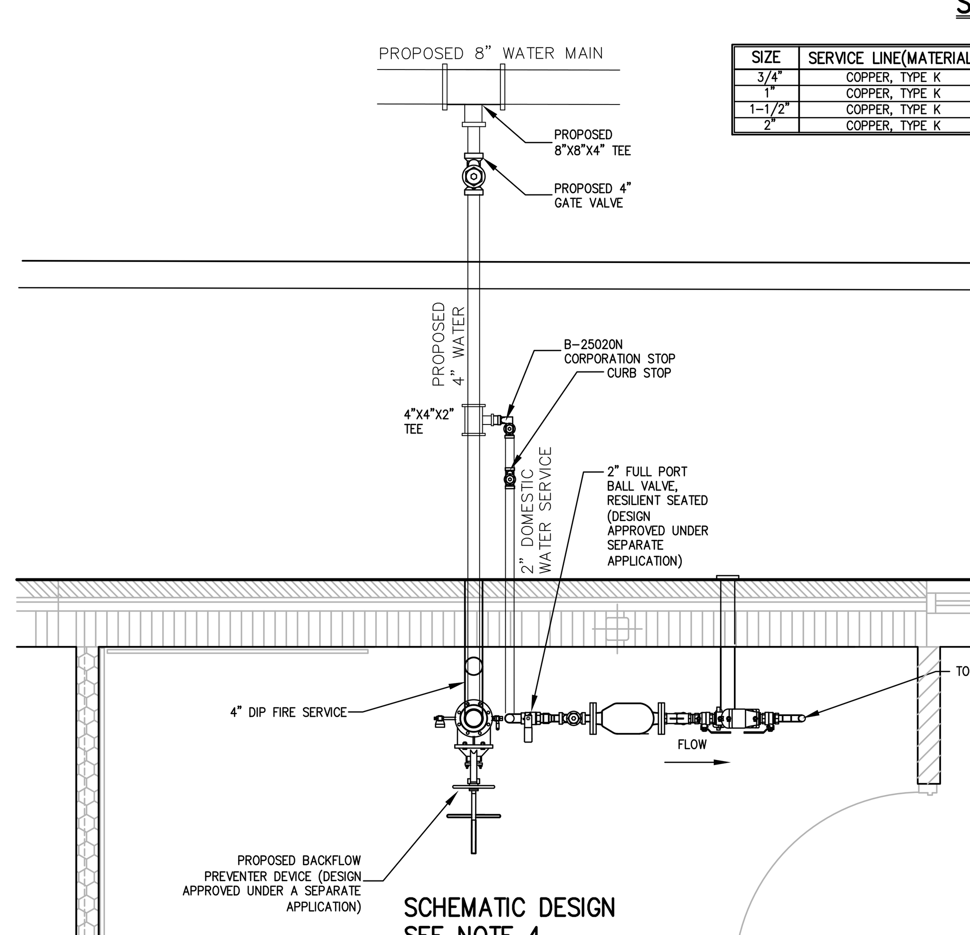
NOTES:

1. GATE VALVES SHALL CONFORM TO AWWA SPECIFICATION C-509-01. GATE VALVES SHALL BE SERIES 2360 AS MANUFACTURED BY MUELLER CO.
2. ALL VALVES SHALL OPEN TO THE LEFT (COUNTERCLOCKWISE).

GATE VALVE — 46

SERVICE LINE REQUIREMENTS

SIZE	SERVICE LINE(MATERIALS)	CORPORATION STOP	CURB STOP	CURB BOX	ENLARGED BASE
3/4"	COPPER, TYPE K	B25020N	H–1502–1N	H–10308	Not Applicable
1"	COPPER, TYPE K	B25020N	H–1502–1N	H–10308	Not Applicable
1–1/2"	COPPER, TYPE K	B25020N	B–25204N	H–10310	Not Applicable
2"	COPPER, TYPE K	B25020N	B–25204N	H–10310	H–10349

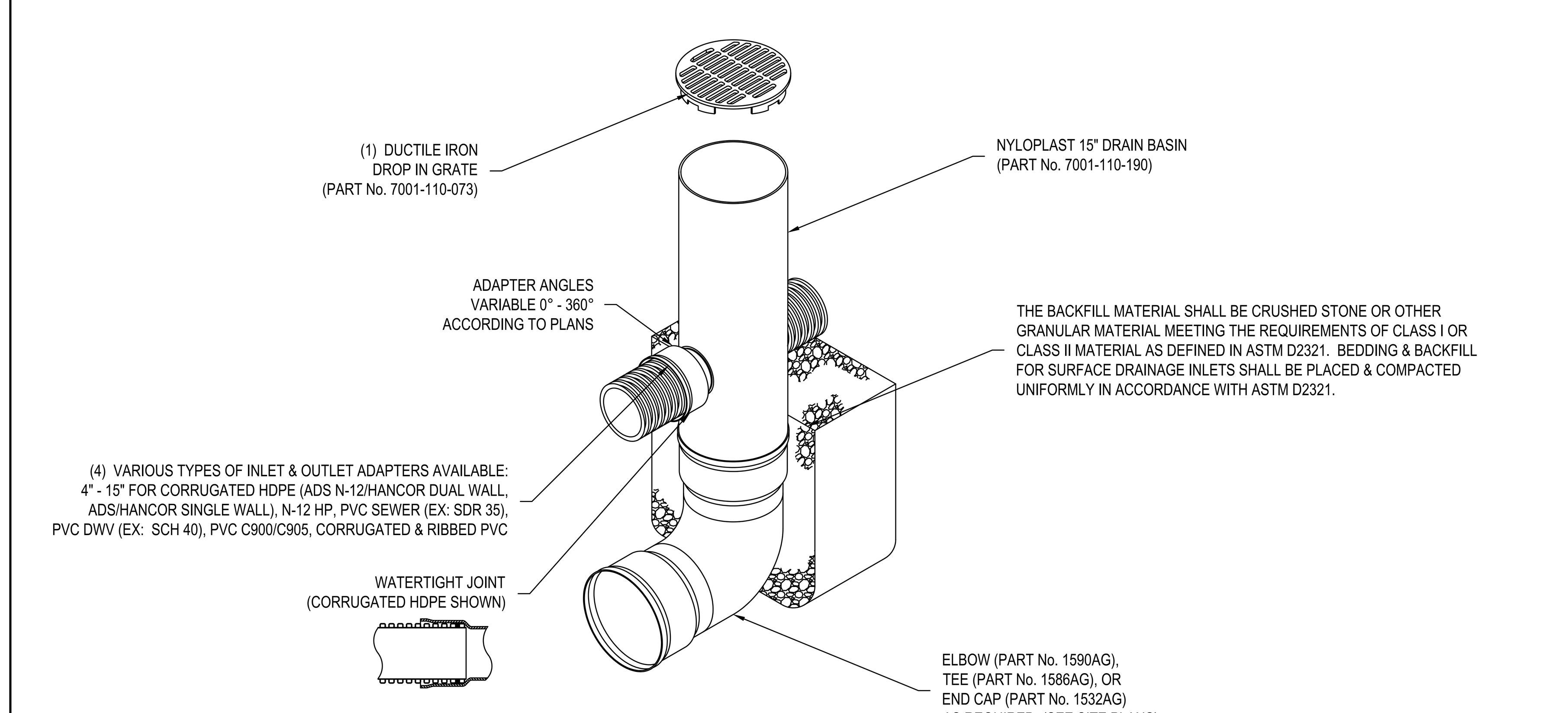


SCHEMATIC DESIGN
SEE NOTE 4

NOTES:

1. INSTALLATION OF 1-1/2" AND 2" CORPORATION STOPS SHALL BE MADE IN THE UPPER PIPE QUADRANT, BUT MAY BE MADE AT ANGLES LESS THAN 45° IF APPROVED BY THE OWNER'S FIELD REPRESENTATIVE.
2. SERVICE LINE SHALL HAVE NO JOINTS BETWEEN THE WATER MAIN AND BUILDING.
3. CORPORATION STOP SHALL BE MUELLER COMPANY OR APPROVED EQUAL. CATALOG NUMBERS SHOWN REFER TO MUELLER COMPANY.
4. PROJECT ARCHITECT OR MEP SHALL PROCESS BACKFLOW PREVENTION APPLICATION FOR FIRE AND DOMESTIC WATER SERVICES AND WATER METERS WITH THE ORANGE COUNTY DEPARTMENT OF HEALTH AND TOWN OF NEWBURGH WATER DEPARTMENT.
5. THE WATER SERVICE CONNECTION IS TYPICAL FOR ALL RESIDENTIAL BUILDINGS AND THE CLUBHOUSE.

WATER SERVICE CONNECTION — 47



1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065

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DATE 03-30-06		
REVISED BY CCA	PROJECT NO./NAME	
DATE 08-27-13		
DWG SIZE A	SCALE N.T.S.	SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE, BUFORD, GA 30518, PHN (770) 932-2443, FAX (770) 932-2490, www.nyloplast-us.com

TITLE: 15 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL
DWG NO. 7001-110-190 — REV D

NYLOPLAST 15" DRAIN BASIN — 48

No.	Revision	Date	By
1.	PLANNING BOARD SUBMISSION	03/19/2021	BMS
2.	PLANNING BOARD SUBMISSION	06/22/2021	BMS

Previous Editions Obsolete

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CONSTRUCTION DETAILS

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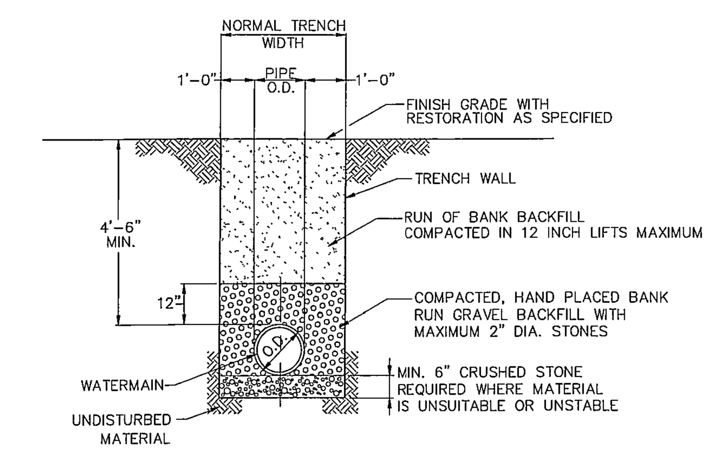
Drawn: BMS | Approved: JS
Scale: NOT TO SCALE
Date: 03/19/2021
Project No: 17088
17088-DETAILS | C-903
Drawing No: C-903

NOT FOR CONSTRUCTION



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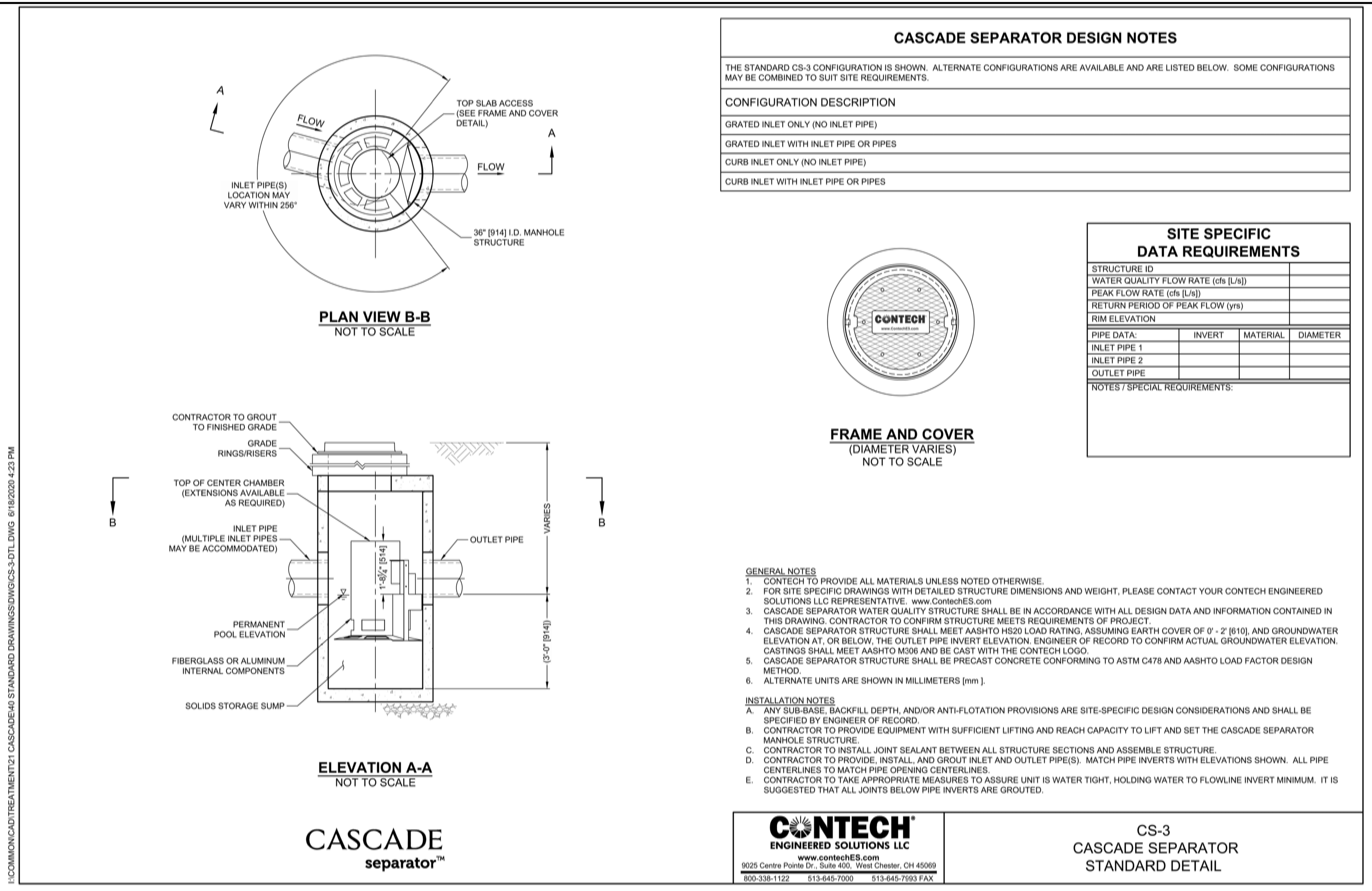
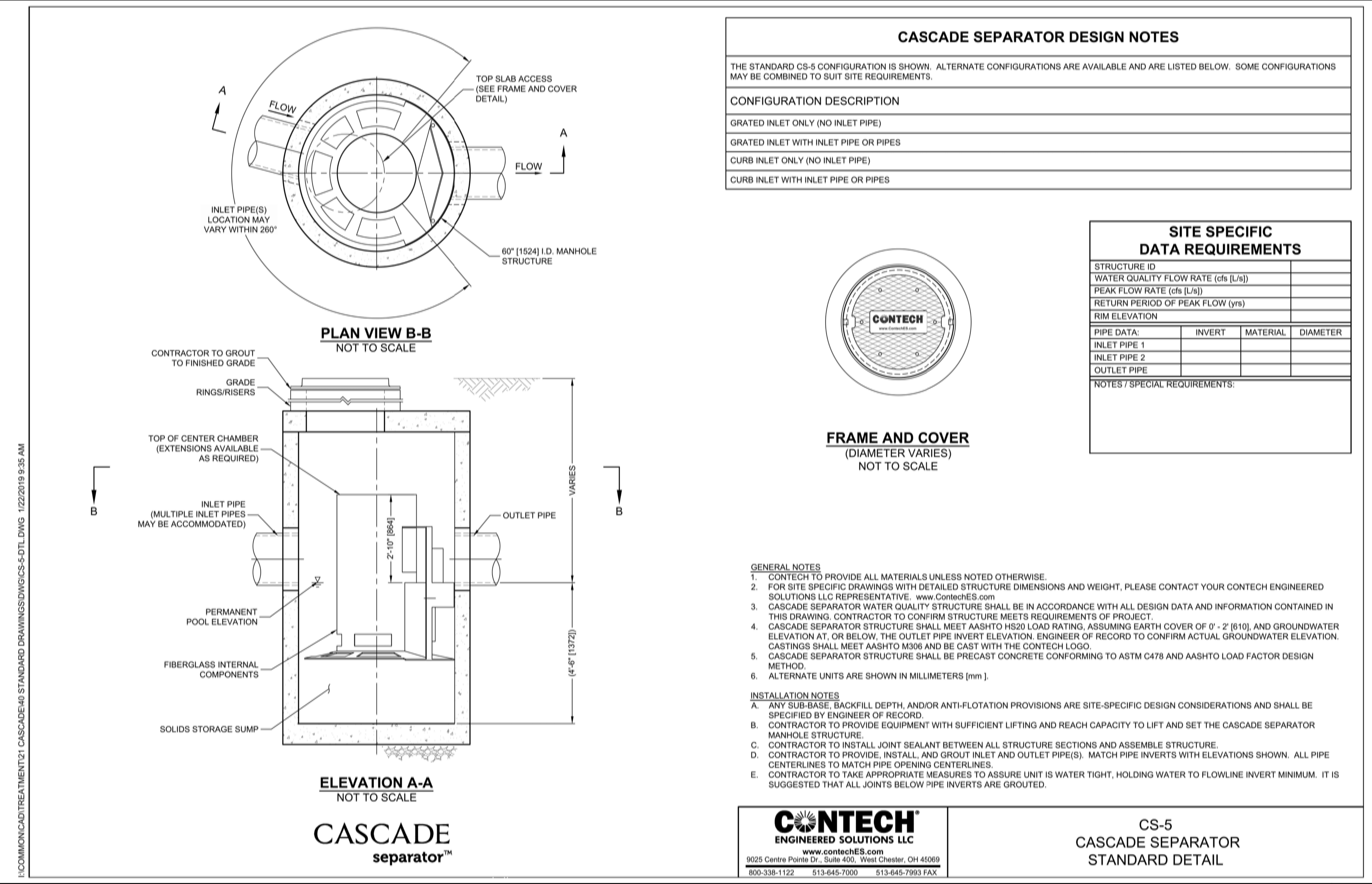
TOWN OF NEWBURGH, NEW YORK CONSOLIDATED WATER DISTRICT STANDARD WATER DISTRIBUTION DETAILS		
WATERMAIN TRENCH EXCAVATION AND BACKFILL (OUTSIDE OF PAVEMENT)		
DATE: NOVEMBER 2001	BY: CLD	NO SCALE

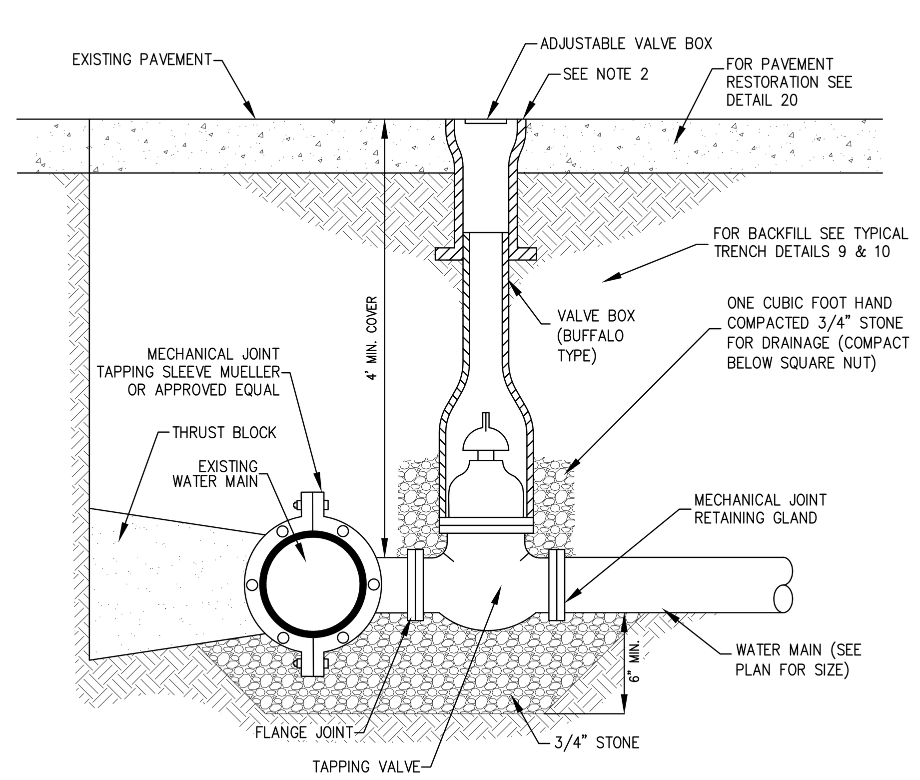
WATERMAIN TRENCH EXCAVATION AND BACKFILL — 41



WATER QUALITY STRUCTURE CS-3 — 42



WATER QUALITY STRUCTURE CS-5 — 43



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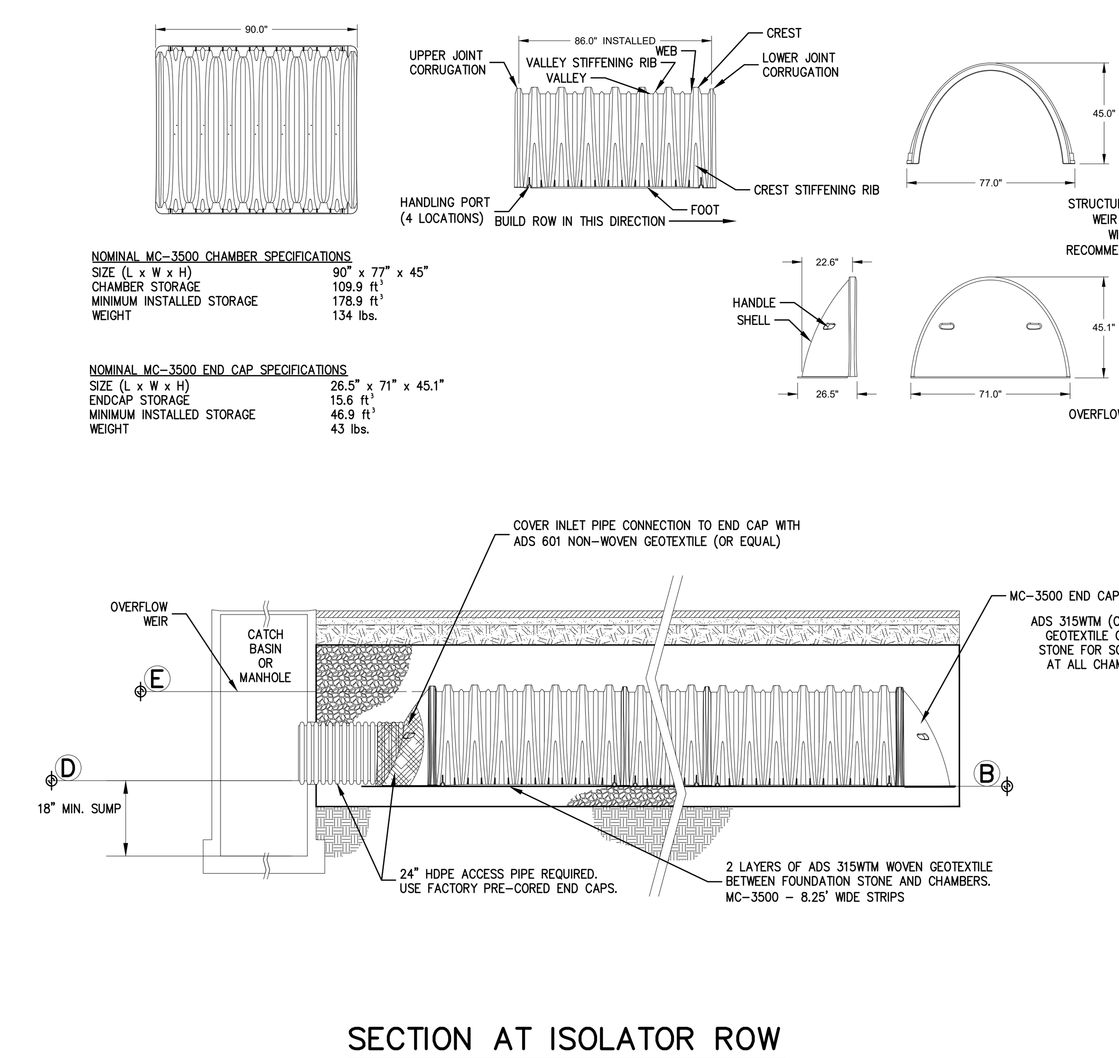
WET TAP MAIN CONNECTION — 44



SCHEDULE OF INVERTS

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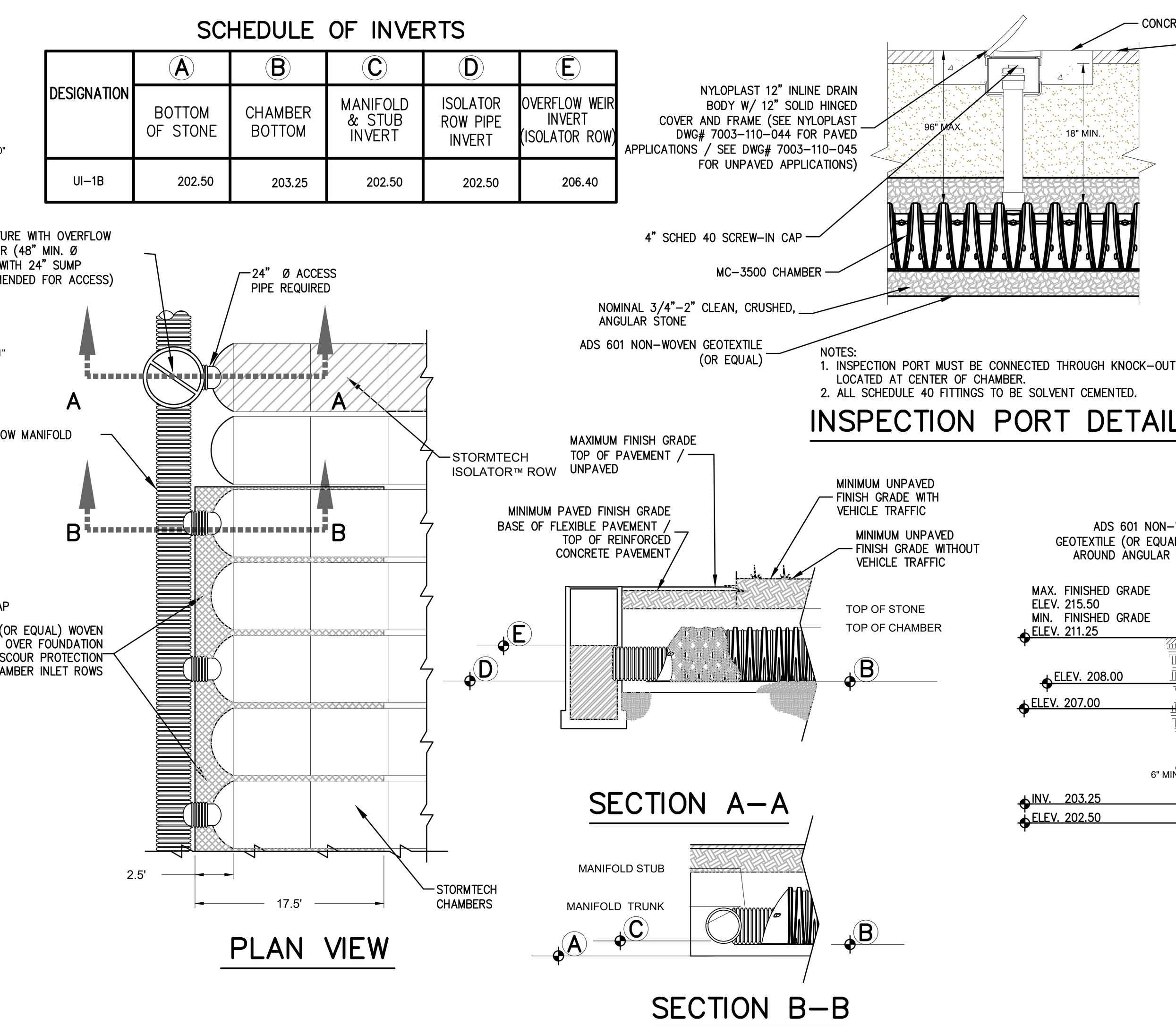
UI-1B	202.50	203.25	202.50	202.50	206.40



ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

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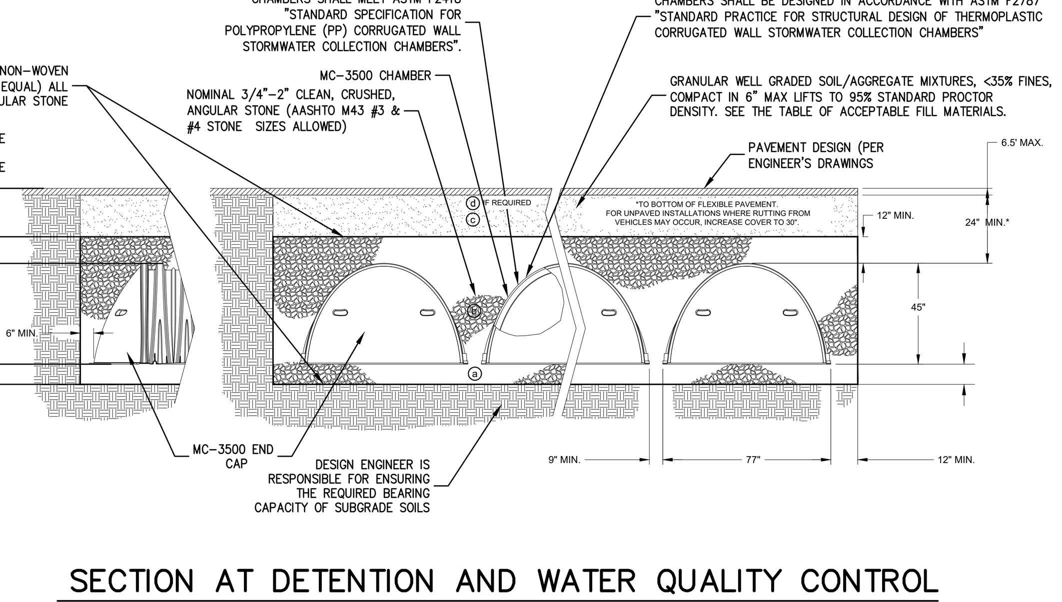
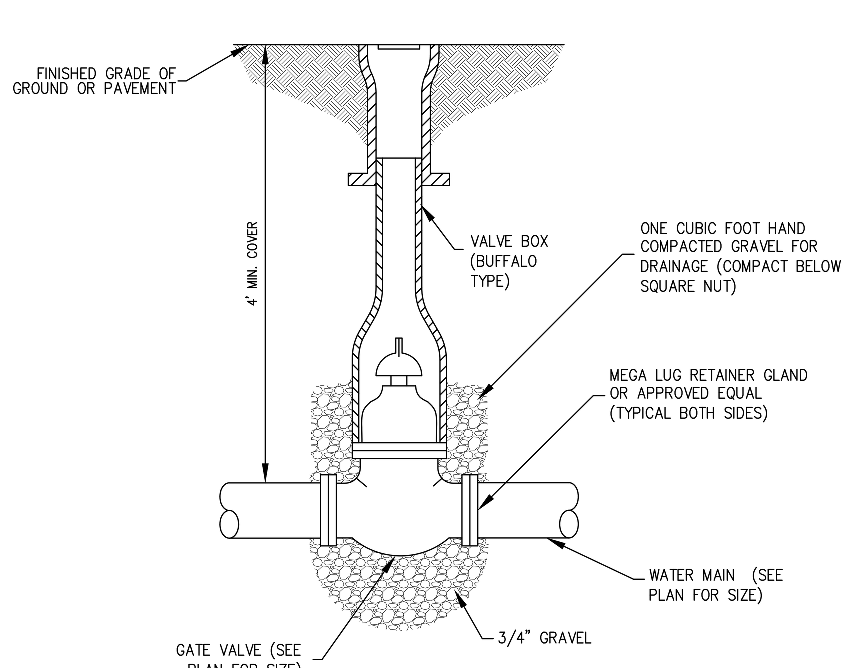


STORMTECH CHAMBERS MC-3500 — 45



NOTES:

1. GATE VALVES SHALL CONFORM TO AWWA SPECIFICATION C-509-01. GATE VALVES SHALL BE SERIES 2360 AS MANUFACTURED BY MUELLER CO.
2. ALL VALVES SHALL OPEN TO THE LEFT (COUNTERCLOCKWISE).

GATE VALVE — 46

SERVICE LINE REQUIREMENTS

SIZE	SERVICE LINE(MATERIALS)	CORPORATION STOP	CURB STOP	CURB BOX	ENLARGED BASE
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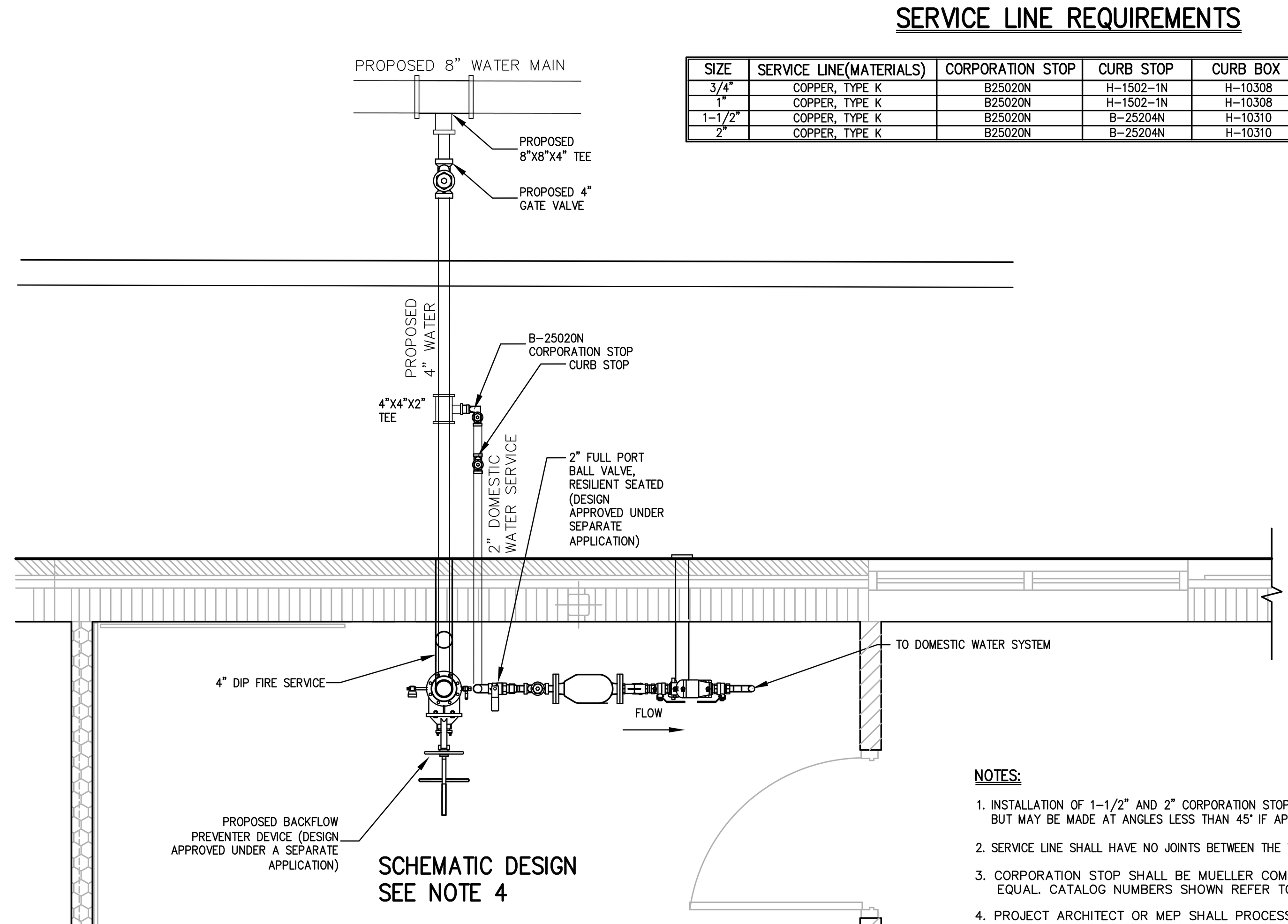
1"	COPPER, TYPE K	B25020N	H-1502-1N	H-10308	Not Applicable
1-1/2"	COPPER, TYPE K	B25020N	B-25204N	H-10310	Not Applicable
2"	COPPER, TYPE K	B25020N	B-25204N	H-10310	H-10349



NOTES:

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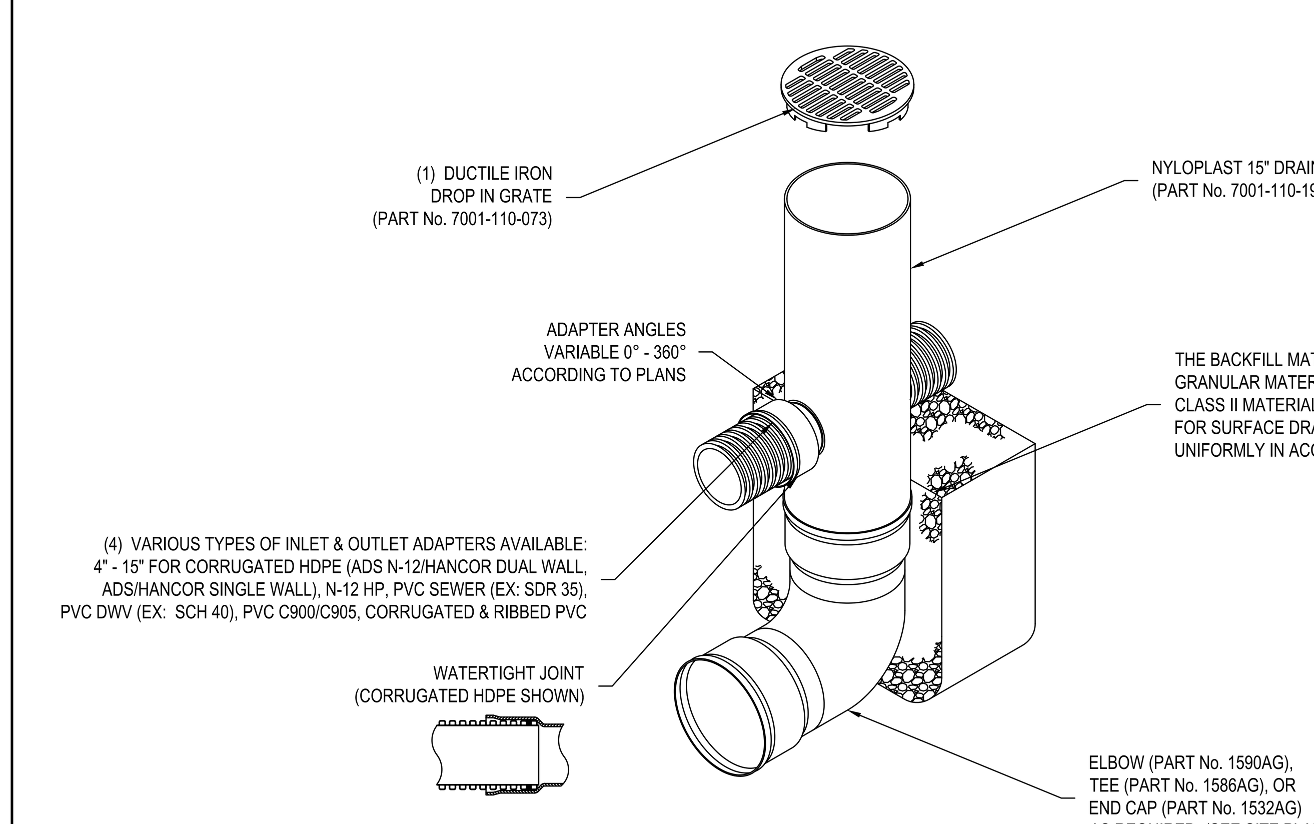
5. THE WATER SERVICE CONNECTION IS TYPICAL FOR ALL NINE (9) RESIDENTIAL BUILDINGS AND THE CLUBHOUSE.

WATER SERVICE CONNECTION — 47



1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065

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DATE 03-30-06		
REVISED BY CCA	PROJECT NO./NAME	TITLE: 15 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL
DATE 08-27-13		
DWG SIZE A	SCALE N.T.S. SHEET 1 OF 1	DWG NO. 7001-110-190 REV D

NYLOPLAST 15" DRAIN BASIN — 48

No.	Revision	Date	By
1.	PLANNING BOARD SUBMISSION	03/19/2021	BMS
2.	PLANNING BOARD SUBMISSION	06/22/2021	BMS

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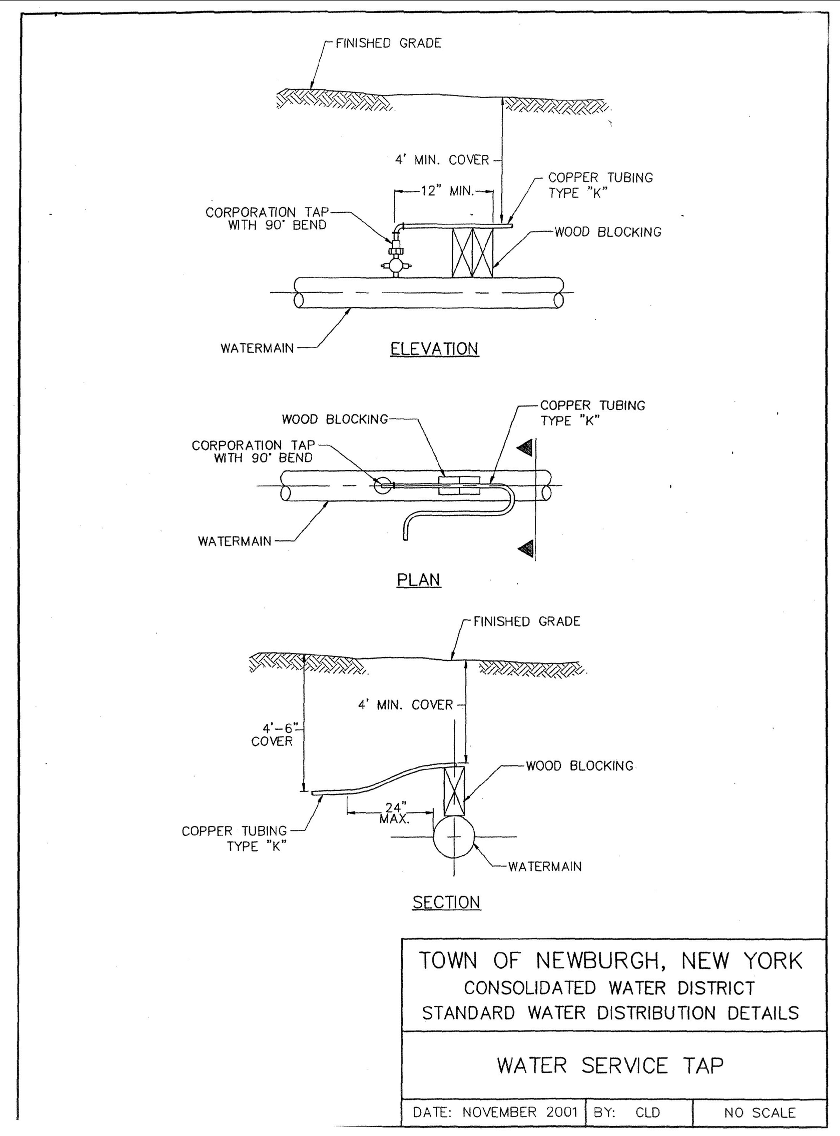
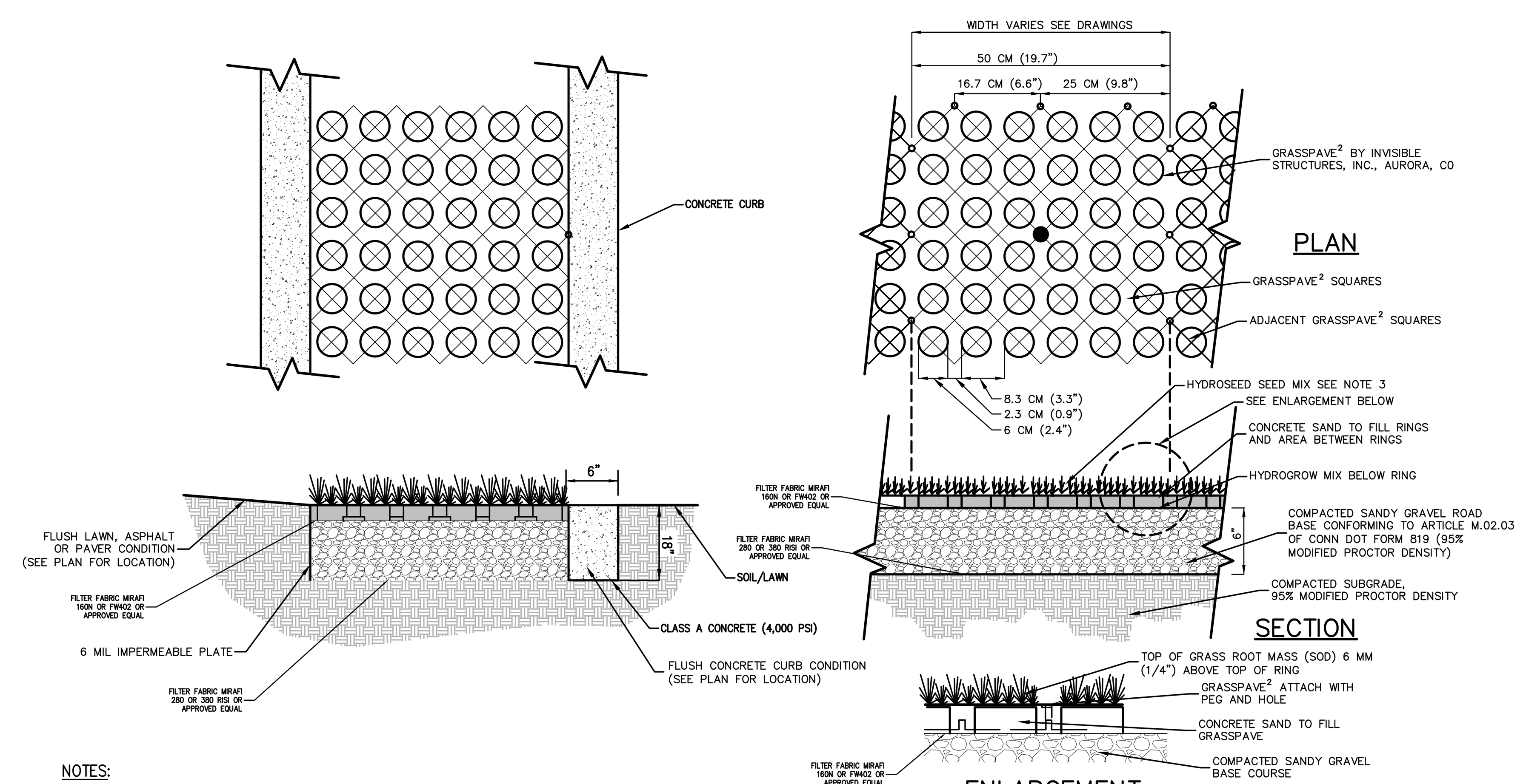


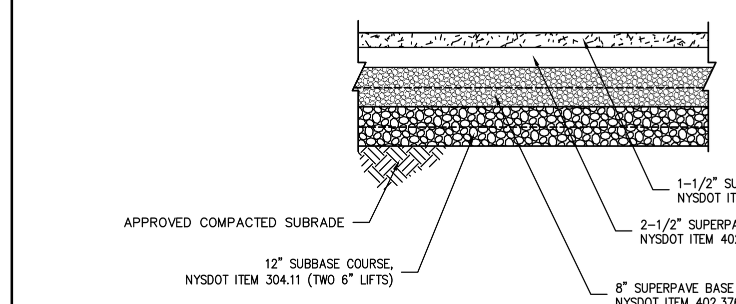
WATER SERVICE TAP — 49



NOTES:

1. INSTALL AS PER MANUFACTURES TECHNICAL SPECIFICATIONS AND INSTALLATION PROCEDURES.
2. PREPARE SUBGRADE AS PER SECTION 2.09 OF CONN DOT FORM 816.
3. GRASS TO BE HYDROSEED WITH KENTUCKY BLUE (40%)/RYE (20%)/FESCUE (40%), HEAVY APPLICATION. HYDROSEEDING MULCH SHALL BE WOOD OR PAPER.
4. GRASS PAVERS TO WITHSTAND HS–20 LOADING.
5. CONTRACTOR AND/OR WCCC SHALL BE RESPONSIBLE FOR THE IRRIGATION OF ALL GRASSPAVE2 AREAS AS MAYBE REQUIRED.

GRASS PAVERS — 50

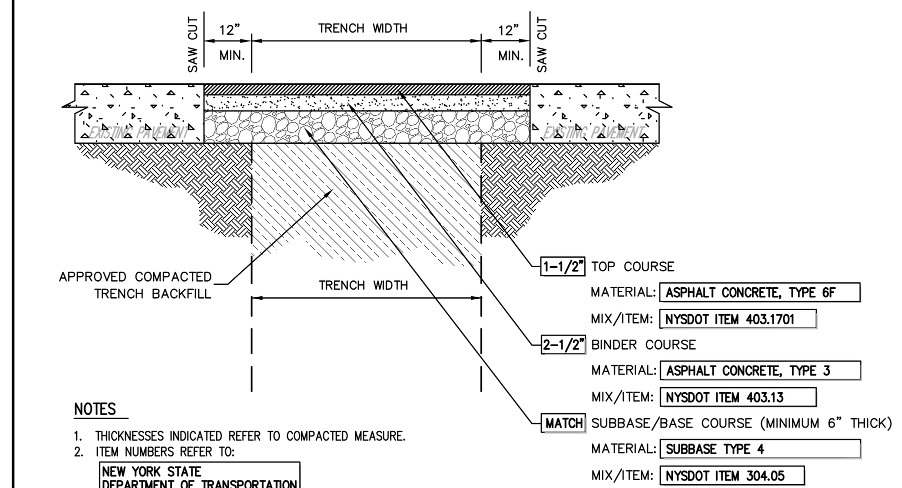


NOTES:

1. THICKNESSES INDICATED REFER TO COMPACTED MEASURE.
2. MATERIAL AND MIX/ITEM NUMBERS REFER TO NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
3. ASPHALT (HMA) COMPACTION REQUIREMENT: NUCLEAR GAUGE MONITORING WITH CORE VERIFICATION (TOP, BINDER, BASE), SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. ITEM 407.01 TACKCOAT SHALL BE APPLIED TO EACH LIFT OF ASPHALT AT THE FOLLOWING RATES:

SURFACE TYPE	APPLICATION RATE (LITERS/M)
NEW HOT MIX ASPHALT	0.14 – 0.28
MILLED	0.21 – 0.28
EXISTING HOT MIX ASPHALT	0.21 – 0.25
PORTLAND CEMENT CONCRETE	0.17 – 0.30
VERTICAL SURFACES	0.27 – 0.32

NYSDOT PAVEMENT SECTION — 51

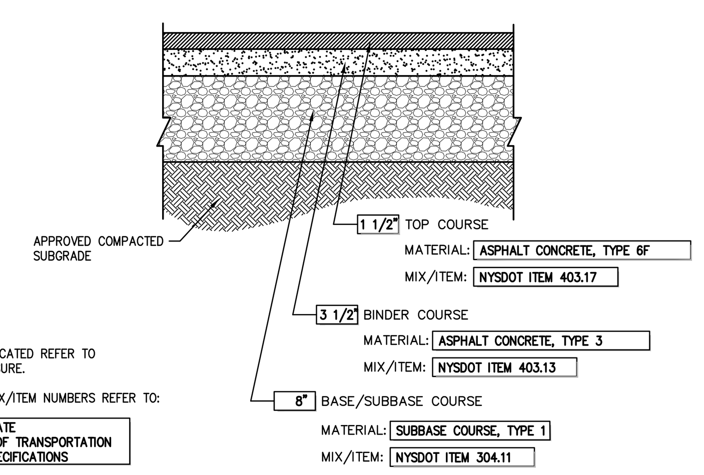


1-1/2" TOP COURSE
MATERIAL: ASPHALT CONCRETE, TYPE 6F
MIX/ITEM: NYSDOT ITEM 403.1701
2-1/2" BINDER COURSE
MATERIAL: ASPHALT CONCRETE, TYPE 3
MIX/ITEM: NYSDOT ITEM 403.13
MATCH SUBBASE/BASE COURSE (MINIMUM 6" THICK)
MATERIAL: SUBBASE TYPE 4
MIX/ITEM: NYSDOT ITEM 304.05

NOTES:

1. THICKNESSES INDICATED REFER TO COMPACTED MEASURE.
2. ITEM NUMBERS REFER TO:
   NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS

PAVEMENT REPLACEMENT OVER TRENCH — 52

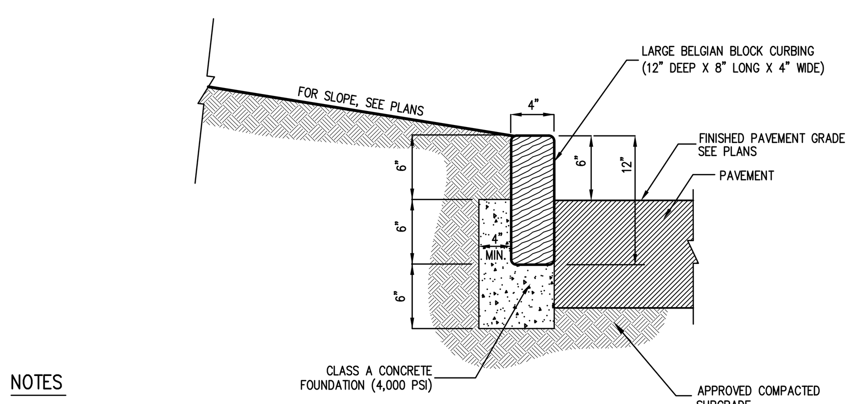


1 1/2" TOP COURSE
MATERIAL: ASPHALT CONCRETE, TYPE 6F
MIX/ITEM: NYSDOT ITEM 403.17
3 1/2" BINDER COURSE
MATERIAL: ASPHALT CONCRETE, TYPE 3
MIX/ITEM: NYSDOT ITEM 403.13
8" BASE/SUBBASE COURSE
MATERIAL: SUBBASE COURSE, TYPE 1
MIX/ITEM: NYSDOT ITEM 304.11

NOTES:

1. THICKNESSES INDICATED REFER TO COMPACTED MEASURE.
2. MATERIAL AND MIX/ITEM NUMBERS REFER TO:
   NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS

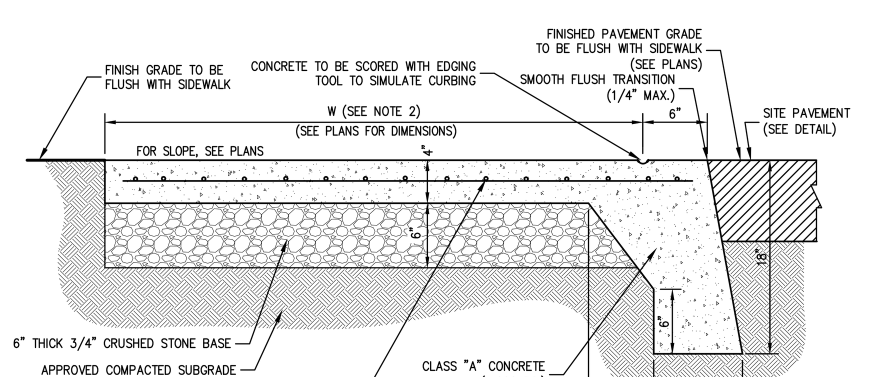
SITE PAVEMENT (Heavy Duty) — 53



NOTES

1. JOINTS SHALL BE NO WIDER THAN 3/4" AND SHALL BE MORTARED. JOINTS SHALL BE FULLY FILLED WITH 1:2 CEMENT MORTAR, NEATLY POINTED AND CLEANED OF EXCESS MORTAR.

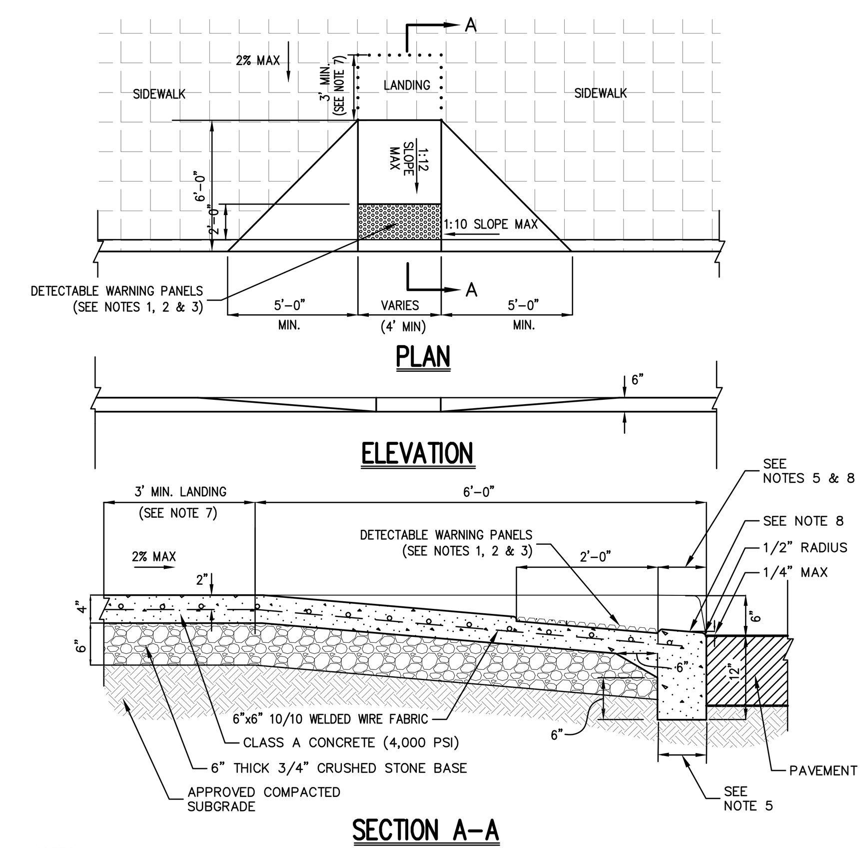
STONE CURB (BELGIAN BLOCK) — 54



NOTES

1. SIDEWALK CROSS SLOPE SHALL BE 1% MIN. TO 2% MAX.
2. FOR SIDEWALK WIDTH SEE PLAN. SIDEWALK SHALL HAVE A 3' MIN. WIDTH CLEAR FROM BACK OF CURBING.
3. PROVIDE JOINT SEALER & PREMOULDED EXPANSION JOINT AT ALL BLDG. WALLS, CONSTRUCTION JOINTS AND OTHER FIXED OBJECTS (HYDRANTS, LIGHT POLES, ETC.)
4. SIDEWALK SHALL HAVE LIGHT BROOM FINISH.
5. PROVIDE 1/2" PREMOULDED EXPANSION JOINTS AT 20 FOOT INTERVALS UNLESS OTHERWISE DIRECTED.
6. REINFORCEMENT SHALL NOT EXTEND THROUGH EXPANSION JOINTS.

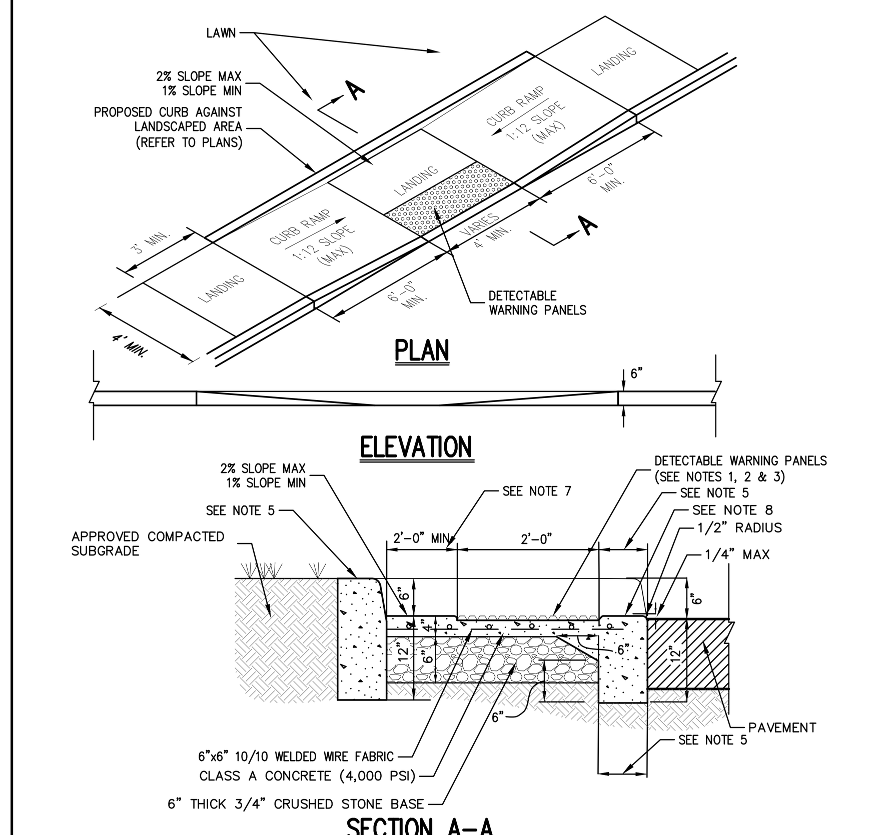
MONOLITHIC CONCRETE FLUSH CURB AND SIDEWALK — 55



NOTES:

1. RAMPS SHALL HAVE CAST IN PLACE DETECTABLE/TACTILE WARNING SURFACE TILES AS MANUFACTURED BY ARMOR–TILE (OR APPROVED EQUAL) AND SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES, A HEIGHT OF NOMINAL 0.2 INCHES AND A CENTER TO CENTER SPACING OF NOMINAL 2.35 INCHES.
2. DETECTABLE WARNING PANELS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT–ON–DARK OR DARK–ON–LIGHT IN ACCORDANCE WITH SECTION 4.29.2, FEDERAL REGISTER, VOLUME 56, NO. 144, RULES AND REGULATIONS, APPENDIX A TO PART 36 – STANDARDS FOR ACCESSIBLE DESIGN (AMERICANS WITH DISABILITIES ACT), LATEST EDITION.
3. 24" WIDTH OF PANELS TO BE INSTALLED DIRECTLY BEHIND CURB AND IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
4. A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.).
5. CURB TREATMENT VARIES, SEE PLANS FOR CURB TYPE AND SEE CURB DETAIL FOR DIMENSIONS.
6. RAMP, CURB AND ADJACENT PAVEMENTS SHALL BE GRADED TO PREVENT PONDING.
7. WHEN LANDING OF RAMP ADJOINS A DOORWAY THEN THE MINIMUM DOORWAY MANEUVERING AREA SHALL BE AT LEAST THE WIDTH OF THE DOORWAY AND SHALL HAVE A MINIMUM DEPTH OF:
   MANUAL SWING DOORS = 60" MIN.
   FULL POWERED AUTOMATIC SLIDING DOORS = 48" MIN.
8. CONTRACTOR TO ENSURE TOP OF CURB MATCHES SLOPE OF RAMP.

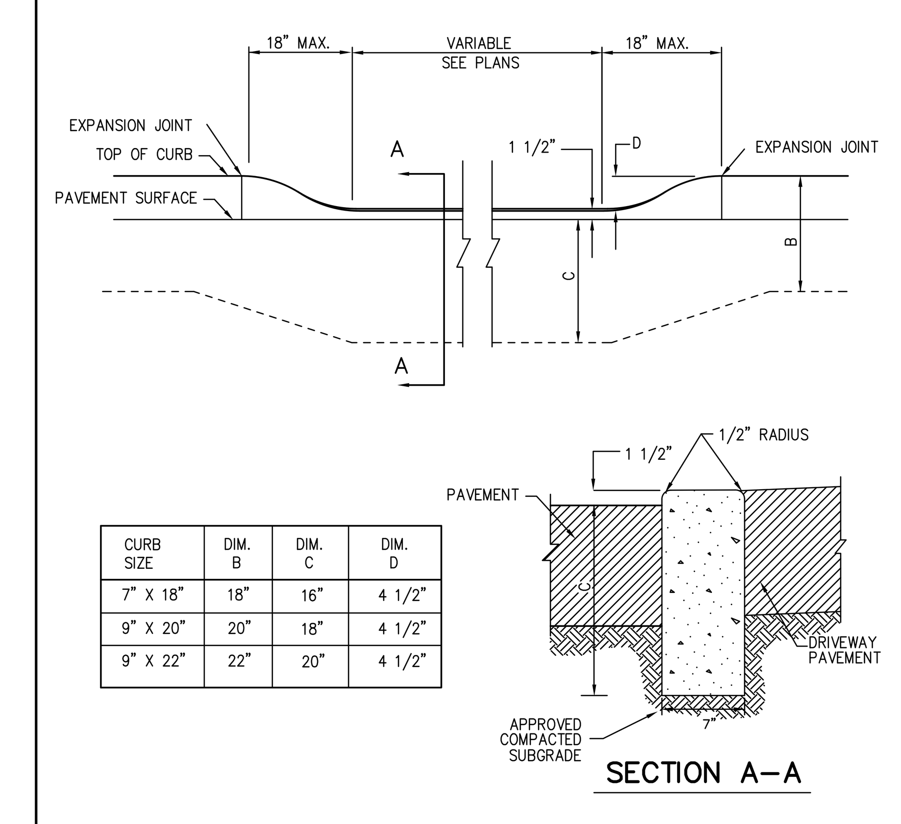
DROP CURB & RAMP (TYPE A) WITH DETECTABLE WARNING — 56



NOTES:

1. RAMPS SHALL HAVE CAST IN PLACE DETECTABLE/TACTILE WARNING SURFACE TILES AS MANUFACTURED BY ARMOR–TILE (OR APPROVED EQUAL) AND SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCHES, A HEIGHT OF NOMINAL 0.2 INCHES AND A CENTER TO CENTER SPACING OF NOMINAL 2.35 INCHES.
2. DETECTABLE WARNING PANELS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT–ON–DARK OR DARK–ON–LIGHT IN ACCORDANCE WITH SECTION 4.29.2, FEDERAL REGISTER, VOLUME 56, NO. 144, RULES AND REGULATIONS, APPENDIX A TO PART 36 – STANDARDS FOR ACCESSIBLE DESIGN (AMERICANS WITH DISABILITIES ACT), LATEST EDITION.
3. 24" WIDTH OF PANELS TO BE INSTALLED DIRECTLY BEHIND CURB AND IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
4. A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E., HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.).
5. CURB TREATMENT VARIES, SEE PLANS FOR CURB TYPE AND SEE CURB DETAIL FOR DIMENSIONS.
6. RAMP, CURB AND ADJACENT PAVEMENTS SHALL BE GRADED TO PREVENT PONDING.
7. WHEN LANDING OF RAMP ADJOINS A DOORWAY THEN THE MINIMUM DOORWAY MANEUVERING AREA SHALL BE AT LEAST THE WIDTH OF THE DOORWAY AND SHALL HAVE A MINIMUM DEPTH OF:
   MANUAL SWING DOORS = 60" MIN.
   FULL POWERED AUTOMATIC SLIDING DOORS = 48" MIN.
8. CONTRACTOR TO ENSURE TOP OF CURB MATCHES SLOPE OF RAMP.

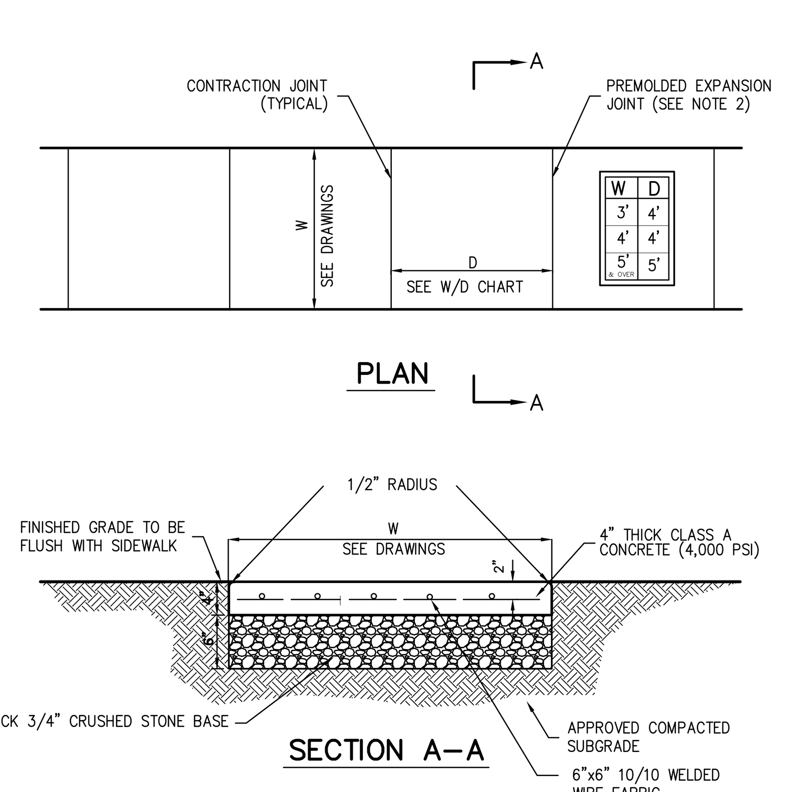
DROP CURB & RAMP (TYPE B) WITH DETECTABLE WARNING — 57



CURB SIZE	DIM. B	DIM. C	DIM. D
7" X 18"	18"	16"	4 1/2"
9" X 20"	20"	18"	4 1/2"
9" X 22"	22"	20"	4 1/2"

METHOD OF DEPRESSING CURB AT DRIVEWAYS

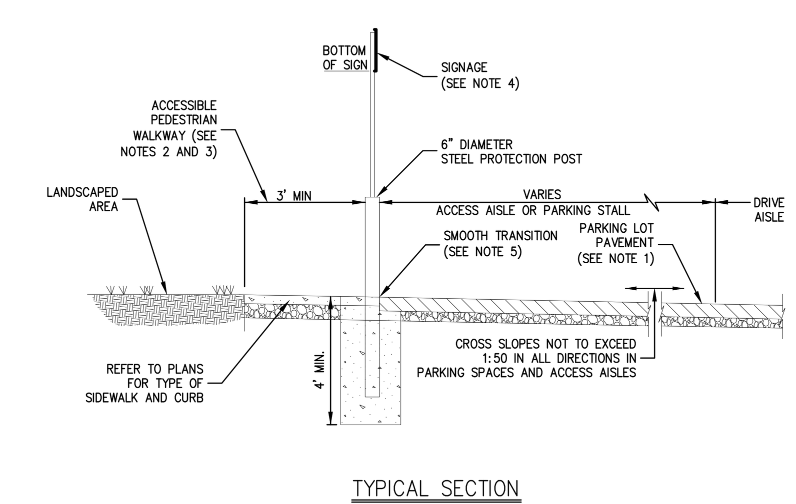
DEPRESSED CONCRETE CURB — 58



NOTES:

1. SIDEWALK CROSS SLOPE SHALL BE 1% MIN. TO 2% MAX.
2. PROVIDE 1/2" PREMOLDED EXPANSION JOINTS AT 20' INTERVALS UNLESS OTHERWISE DIRECTED.
3. REINFORCING SHALL NOT EXTEND THROUGH EXPANSION JOINTS.
4. SIDEWALK SHALL HAVE LIGHT BROOM FINISH

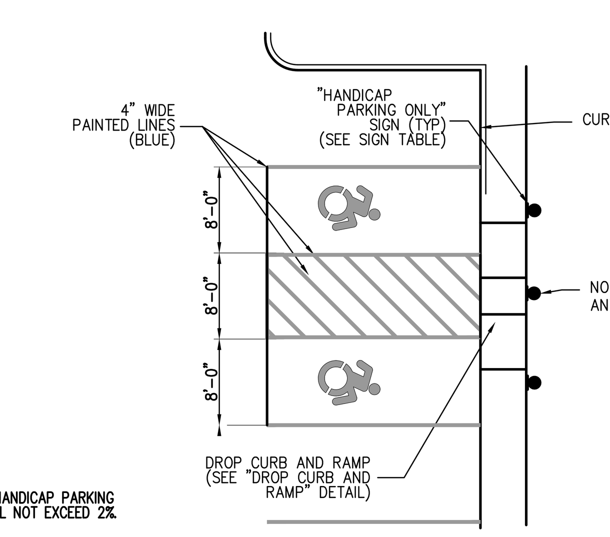
CONCRETE SIDEWALK — 59



NOTES:

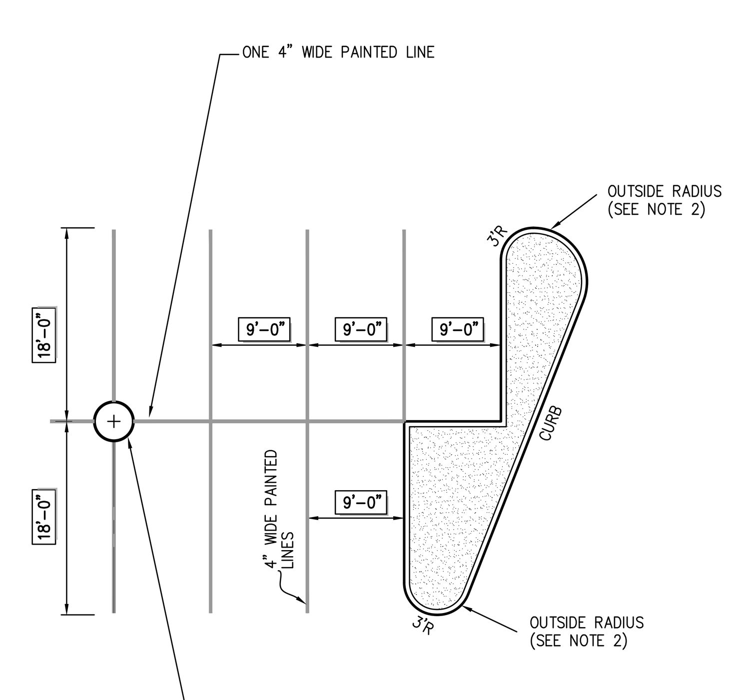
1. THIS SHEET IS INTENDED TO DEPICT THE DIMENSIONAL REQUIREMENTS OF TYPICAL ACCESSIBLE PARKING SPACES. THE SIDEWALK, CURBING, AND PAVEMENT MATERIAL SHALL BE AS SPECIFIED ELSEWHERE IN THE CONTRACT DOCUMENTS.
2. LOCATION – PARKING SPACES FOR USE BY PERSONS WITH DISABILITIES SHALL BE IN THE SPACES CLOSEST TO THE NEAREST ACCESSIBLE BUILDING OR FACILITY ENTRANCE ON AN ACCESSIBLE ROUTE.
3. SURFACE SLOPES – SLOPES AT ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ADJOINING WALKWAYS SHALL NOT EXCEED 1:50 IN ANY DIRECTION.
4. SIGNAGE – EACH ACCESSIBLE PARKING SPACE SHALL BE MARKED BY PERMANENTLY INSTALLED ABOVE GROUND SIGNS WHICH DISPLAY THE INTERNATIONAL SYMBOL OF ACCESS. EACH ACCESS AISLE SHALL BE MARKED BY PERMANENTLY INSTALLED ABOVE GROUND SIGNS INDICATING THAT PARKING IS NOT PERMITTED IN THE AISLE. SIGNS SHALL NOT BLOCK THE ACCESSIBLE CLEAR WIDTH OF ADJACENT WALKWAYS, SIGNS LOCATED WHERE THEY MAY BE HIT BY VEHICLES BEING PARKED SHALL BE INSTALLED AS SHOWN IN THE PROTECTION POST BASE DETAIL. THE BOTTOMS OF THE SIGNS LOCATED ON POST INSTALLED IN PAVED AREAS SHALL BE AT LEAST 7' ABOVE THE WALKWAY SURFACE. THE BOTTOMS OF SIGNS LOCATED IN UNPAVED AREAS SHALL BE 7' ABOVE THE ADJACENT PAVEMENT SURFACE.
5. A SMOOTH, FLUSH TRANSITION MUST BE PROVIDED BETWEEN ALL PEDESTRIAN WALKWAYS AND THE ACCESSIBLE PARKING SPACES AND AISLES.

TYPICAL ACCESSIBLE PARKING STALL AND AISLE — 60



NOTE: SLOPES IN HANDICAP PARKING AREAS SHALL NOT EXCEED 2%

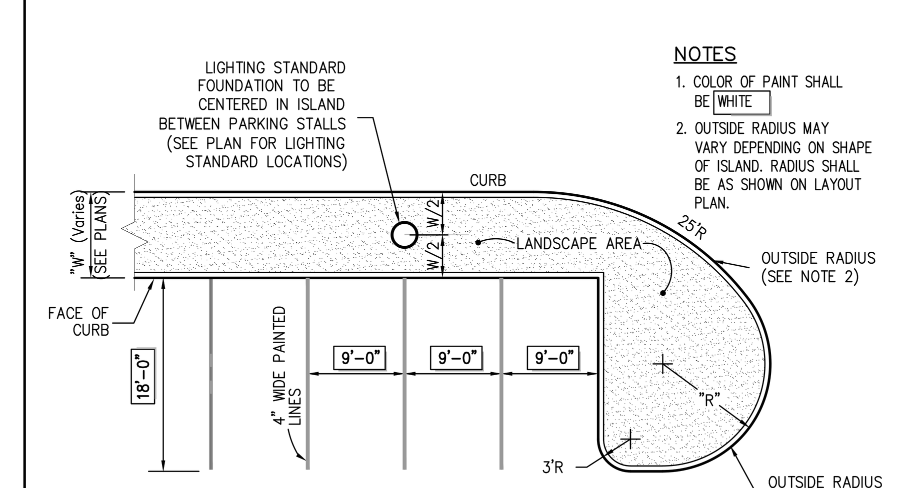
ACCESSIBLE PARKING — 61



NOTES

1. COLOR OF PAINT SHALL BE XXXXXX
2. OUTSIDE RADIUS MAY VARY DEPENDING ON SHAPE OF ISLAND. RADIUS SHALL BE AS SHOWN ON LAYOUT PLAN.

90° PARKING (SINGLE STRIPING–CURBED END) — 62



NOTES

1. COLOR OF PAINT SHALL BE WHITE
2. OUTSIDE RADIUS MAY VARY DEPENDING ON SHAPE OF ISLAND. RADIUS SHALL BE AS SHOWN ON LAYOUT PLAN.

90° PARKING (SINGLE STRIPING – CURBED ISLAND AND CURBED END) — 63

No.	Revision	Date	By
1.	PLANNING BOARD SUBMISSION	03/19/2021	BMS
2.	PLANNING BOARD SUBMISSION	06/22/2021	BMS

Previous Editions Obsolete

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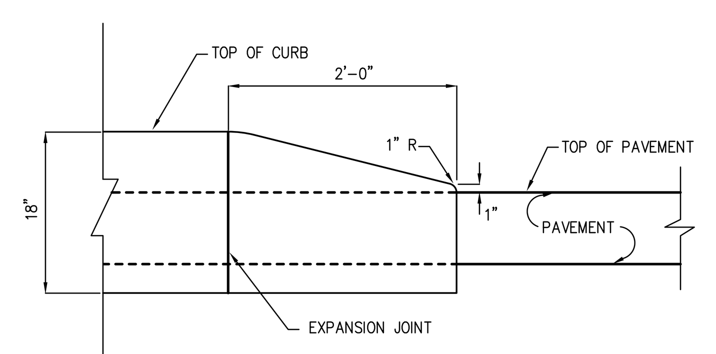
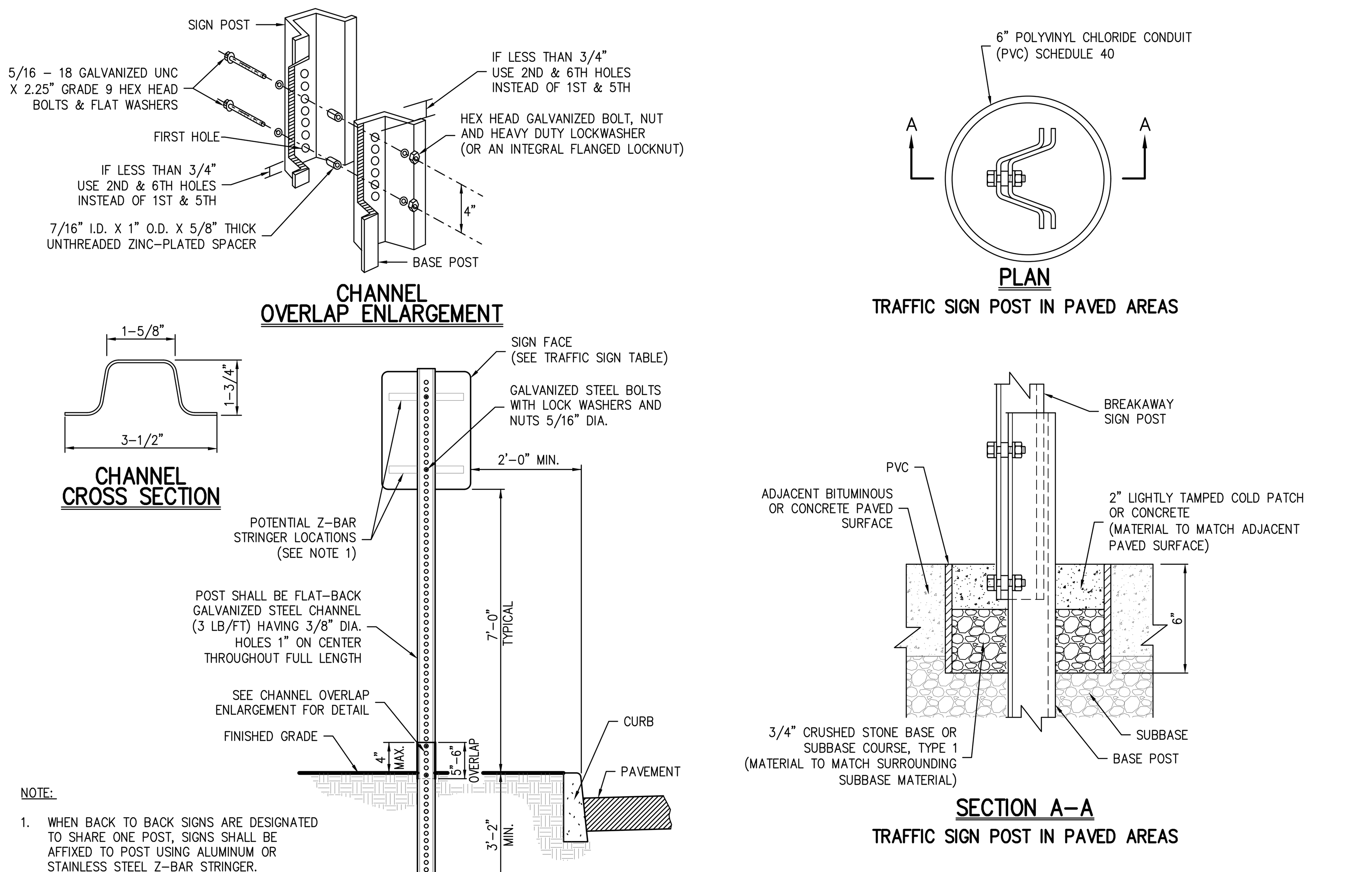
CONSTRUCTION DETAILS

OVERLOOK FARMS A FARRELL COMMUNITY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

Drawn: BMS Approved: JS
Scale: NOT TO SCALE
Date: 03/19/2021
Project No: 17088
17088-DETAILS C-904
Drawing No: C–904



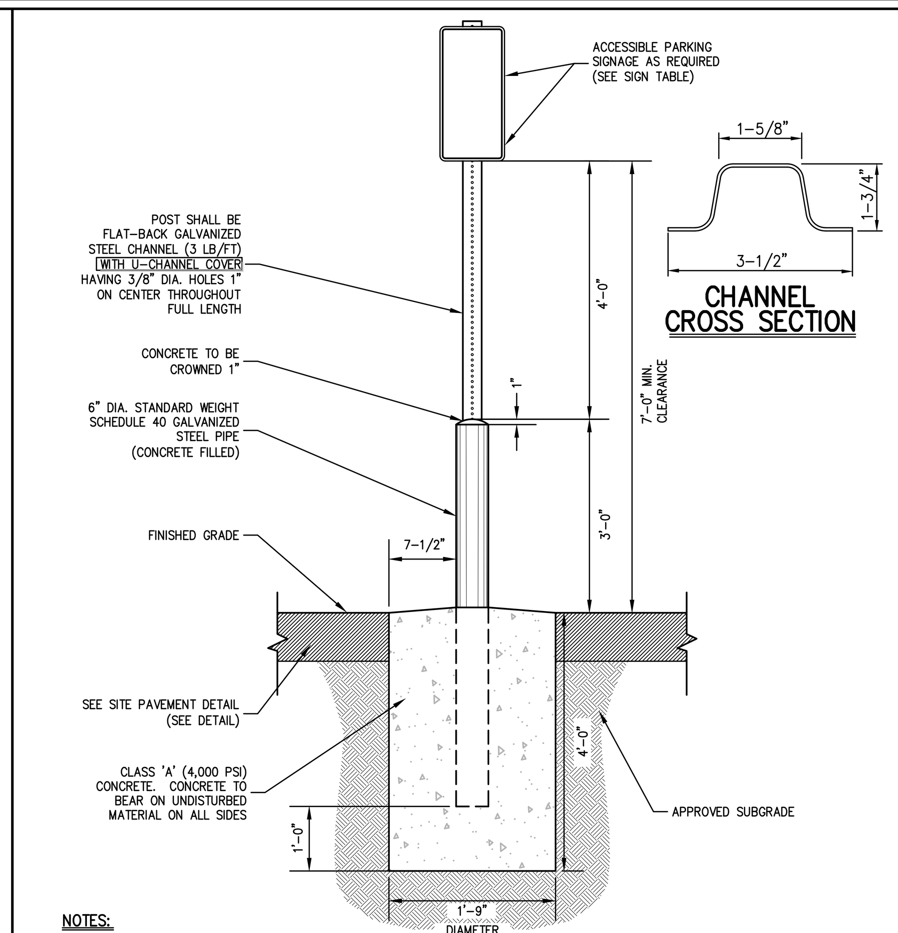
CONCRETE CURB ENDING 64



NOTE:

1. WHEN BACK TO BACK SIGNS ARE DESIGNATED TO SHARE ONE POST, SIGNS SHALL BE AFFIXED TO POST USING ALUMINUM OR STAINLESS STEEL Z-BAR STRINGER.

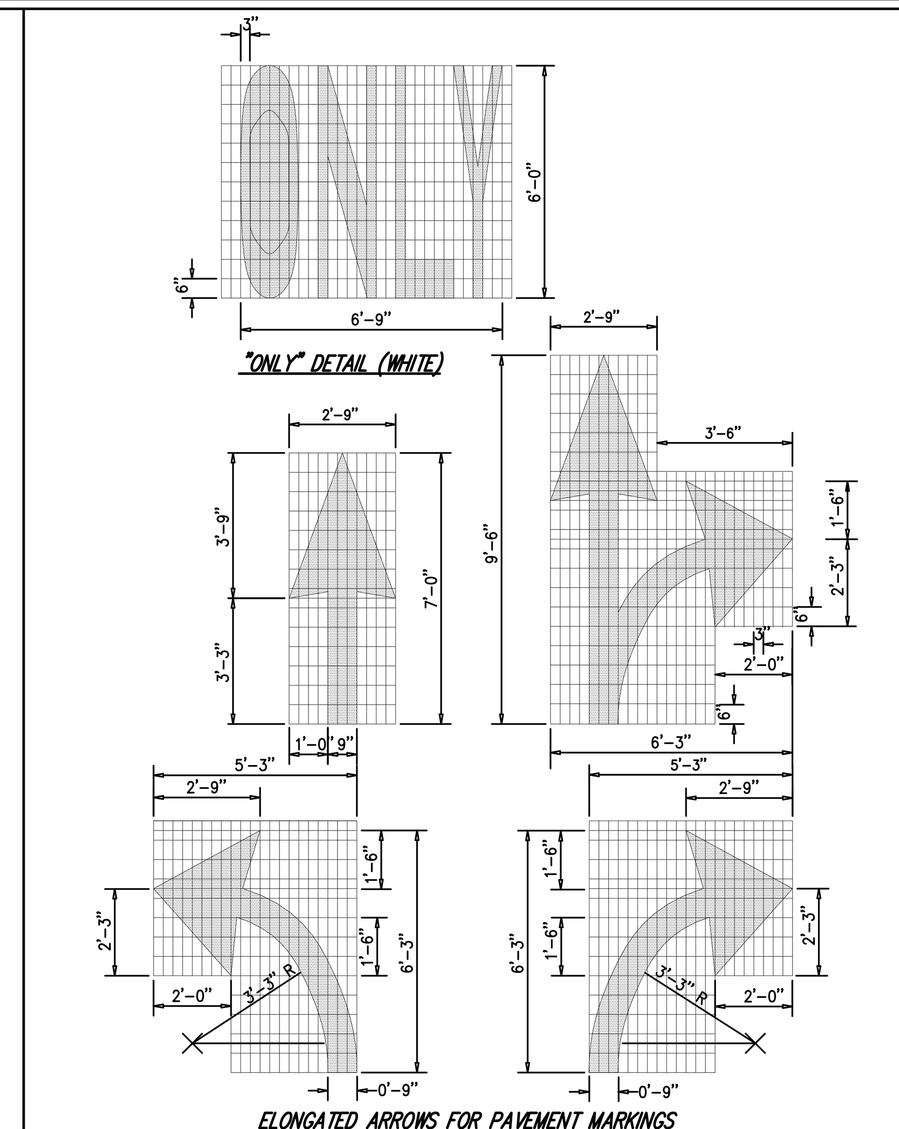
TRAFFIC SIGN POST 65
(BREAKAWAY STEEL CHANNEL)



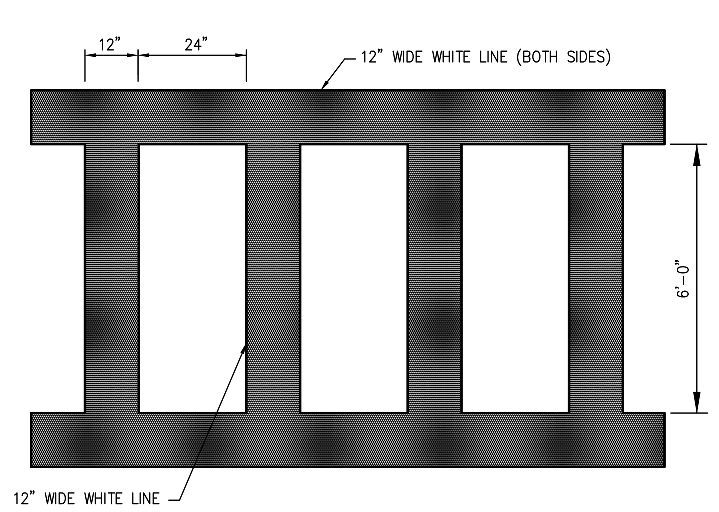
NOTES:

1. GALVANIZED STEEL CHANNEL SHALL BE EMBEDDED A MIN. OF 3 FT. INTO THE CONCRETE
2. POSTS FOR HANDICAP PARKING STALLS AND ACCESS AISLES SHALL BE PAINTED BLUE AS FOLLOWS:
   A. SOLVENT CLEAN TO REMOVE OIL, GREASE AND OTHER CONTAMINANTS.
   B. APPLY METAL PRIMER FOR GALVANIZED SURFACES.
   C. APPLY TWO (2) FINISH COATS OF APPROVED EXTERIOR PAINT FOR METAL SURFACES.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF THE PARKING SIGNS, BOLLARDS AND FOUNDATIONS WITH THE DESIGN AND INSTALLATION OF THE SITE SIDEWALKS, CURBING, PAVEMENT AND ANY OTHER SITE FEATURES SHOWN ON THE PLANS.
4. FASTEN SIGN TO POSTS WITH GALVANIZED STEEL BOLTS, LOCK WASHERS, AND NUTS (5/16" DIA.)
5. U-CHANNEL COVERS FOR POSTS SHALL BE BLUE WITH WHITE STRIPE FOR HANDICAP PARKING STALLS AND HANDICAP ACCESS AISLES.

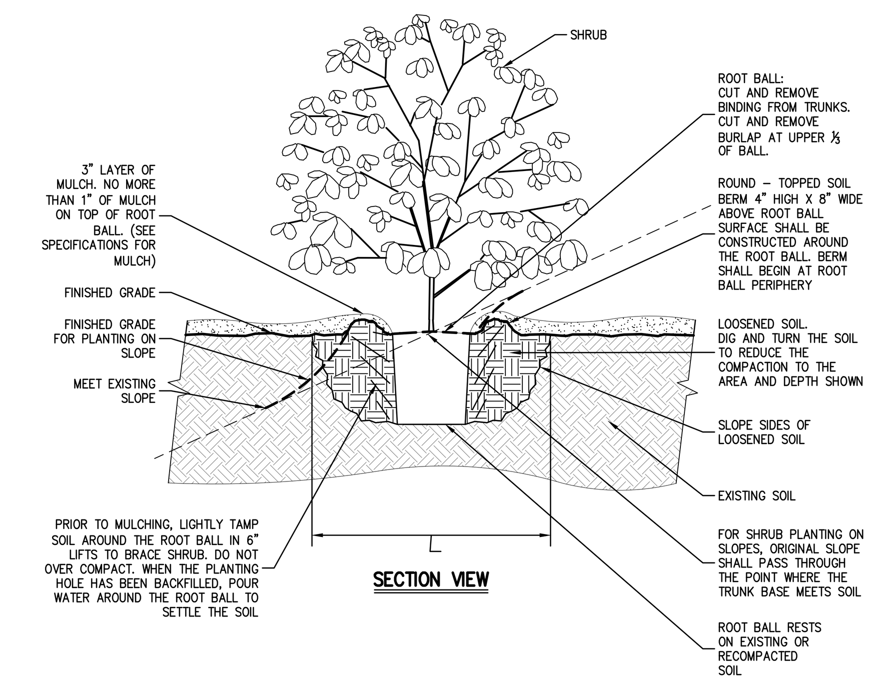
ACCESSIBLE PARKING SIGN DETAIL 66



PAVEMENT TEXT & ARROWS 67
(ON-SITE)



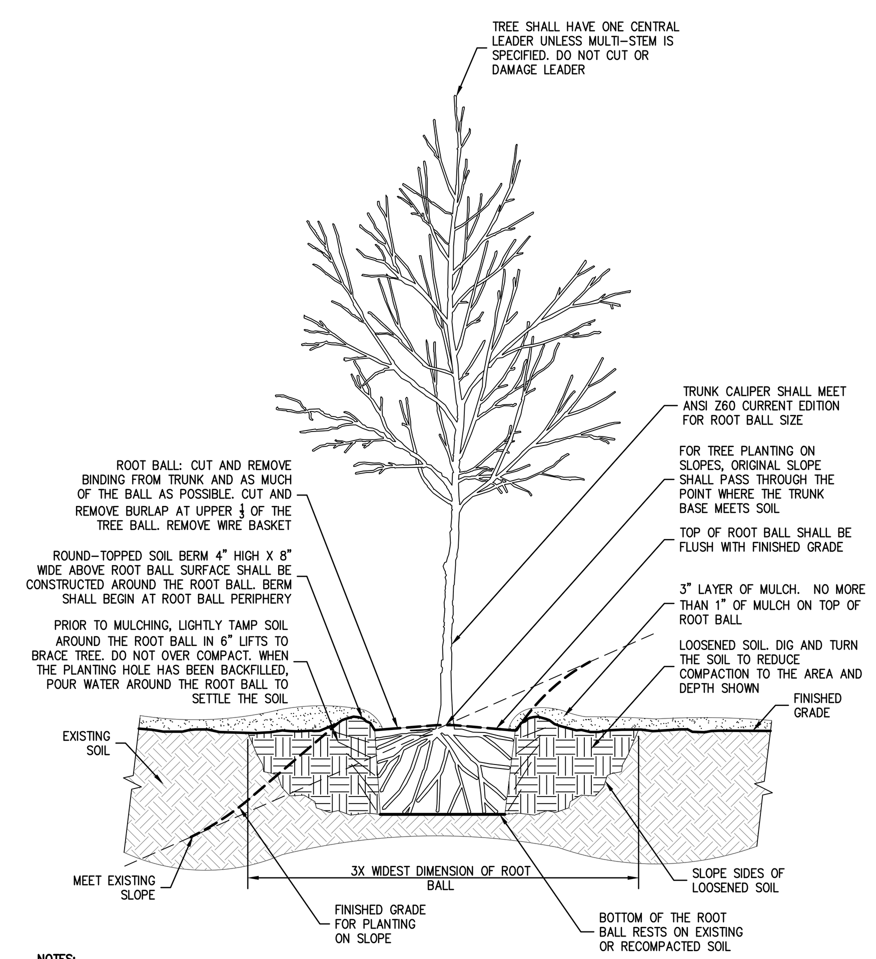
PEDESTRIAN CROSSING 68



NOTES:

1. ALL PLANTING BEDS SHALL BE FREE OF WEEDS AND GRASS PRIOR TO AND FOLLOWING INSTALLATION OF PLANTS.
2. PLANTS IN CONTAINERS MUST HAVE THE FIBROUS ROOTS PULLED APART.
3. PROPOSED PLANT MATERIAL SHALL BEAR THE SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUS EXISTING GRADE.

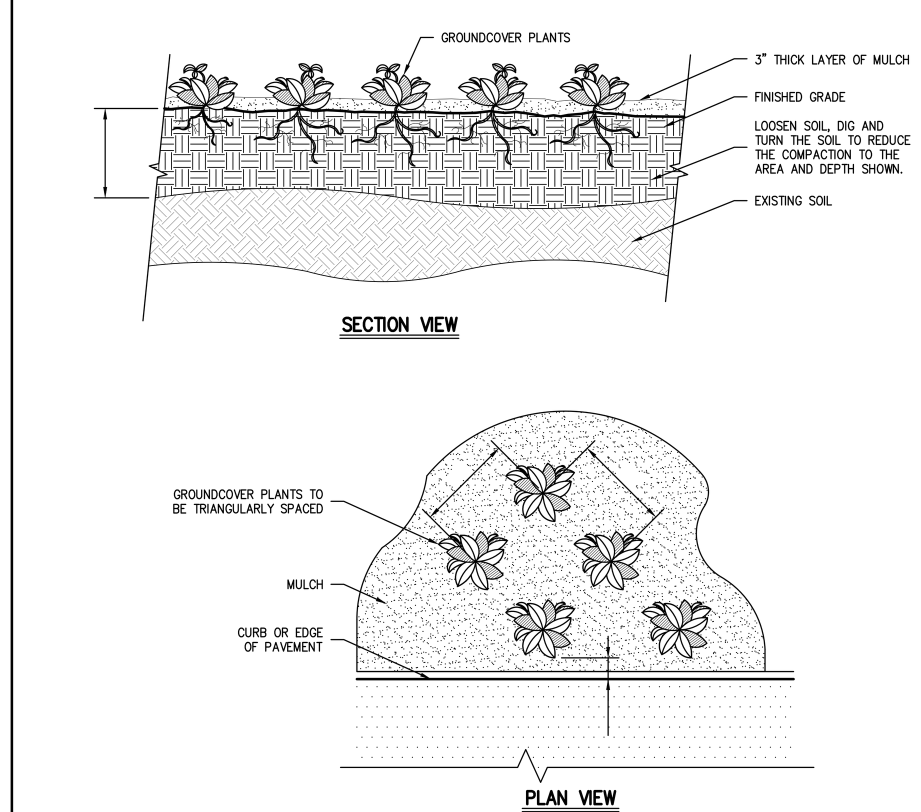
SHRUB PLANTING 69



NOTES:

1. ALL PLANTING BEDS SHALL BE FREE OF WEEDS AND GRASS PRIOR TO AND FOLLOWING INSTALLATION OF PLANTS.
2. PLANTS IN CONTAINERS MUST HAVE THE FIBROUS ROOTS PULLED APART.
3. PROPOSED PLANT MATERIAL SHALL BEAR THE SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUS EXISTING GRADE.
4. SEE TREE STAKING DETAIL IF STAKING IS REQUIRED.

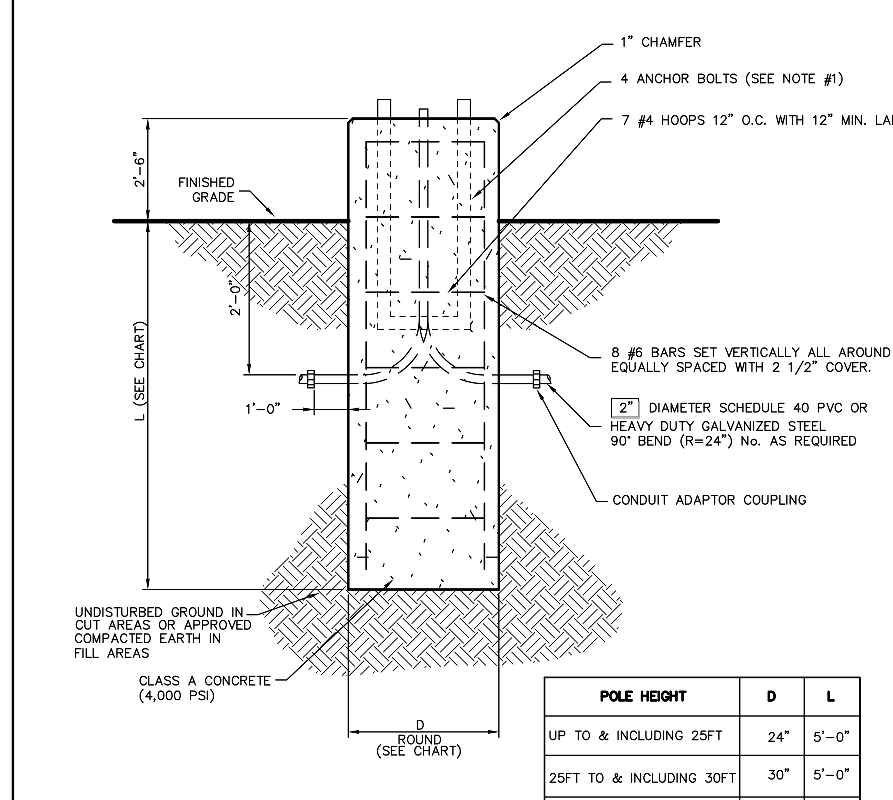
TREE PLANTING 70
(DECIDUOUS AND EVERGREEN)



NOTES:

1. SEE PLANTING PLAN FOR GROUNDCOVER SPECIES, SIZE, AND SPACING DIMENSION.
2. SETTLE SOIL AROUND ROOT BALL OF EACH GROUNDCOVER PLANT PRIOR TO MULCHING.
3. ALL PLANTING BEDS SHALL BE FREE OF WEEDS AND GRASS PRIOR TO AND FOLLOWING INSTALLATION OF PLANTS.
4. PLANTS IN CONTAINERS MUST HAVE THE FIBROUS ROOTS PULLED APART.
5. PROPOSED PLANT MATERIAL SHALL BEAR THE SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUS EXISTING GRADE.

GROUNDCOVER 71

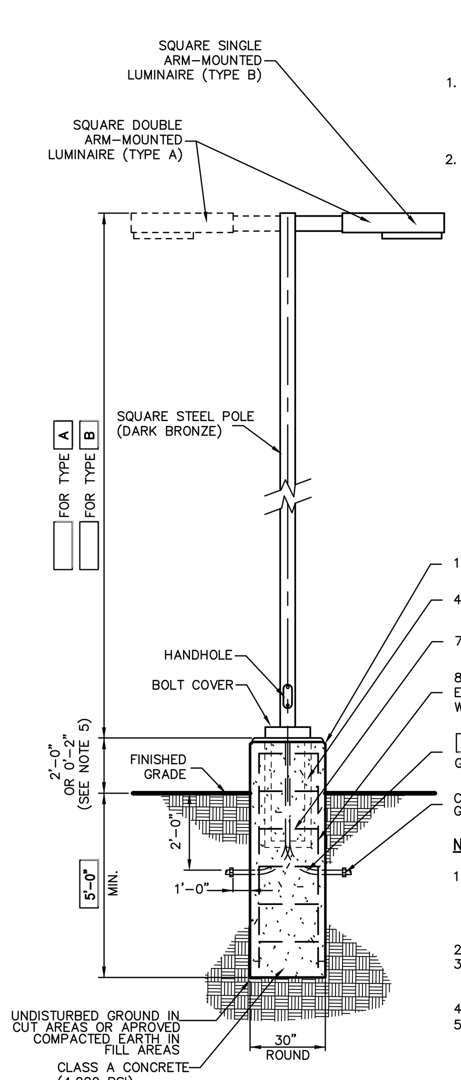


POLE HEIGHT	D	L
UP TO & INCLUDING 25FT	24"	5'-0"
25FT TO & INCLUDING 30FT	30"	5'-0"
30FT TO & INCLUDING 40FT	30"	6'-6"

NOTES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHECK AND VERIFY ALL ANCHOR BOLT DIMENSIONS (SIZE, BOLT CIRCLE, ETC.) WITH THE CONTRACTOR WHO WILL BE INSTALLING THE LIGHTING STANDARD PRIOR TO INSTALLATION OF THE FOUNDATIONS.
2. CHAMFER EXPOSED EDGES OF ALL FOUNDATIONS.
3. PROVIDE INSULATED GROUNDING BUSHING ON EXPOSED ENDS (IN BASE OF POLE) OF ALL GALVANIZED STEEL BENDS.
4. POLES AND LUMINAIRES WILL BE FURNISHED AND INSTALLED BY OTHERS.

LIGHTING STANDARD FOUNDATION 72
(ROUND)



LUMINAIRE & POLE SPECIFICATIONS

1. TYPE A LIGHTING STANDARD (DOUBLE ARM-MOUNTED)
   LUMINAIRE:
   POLE:
2. TYPE B LIGHTING STANDARD (SINGLE ARM-MOUNTED)
   LUMINAIRE:
   POLE:

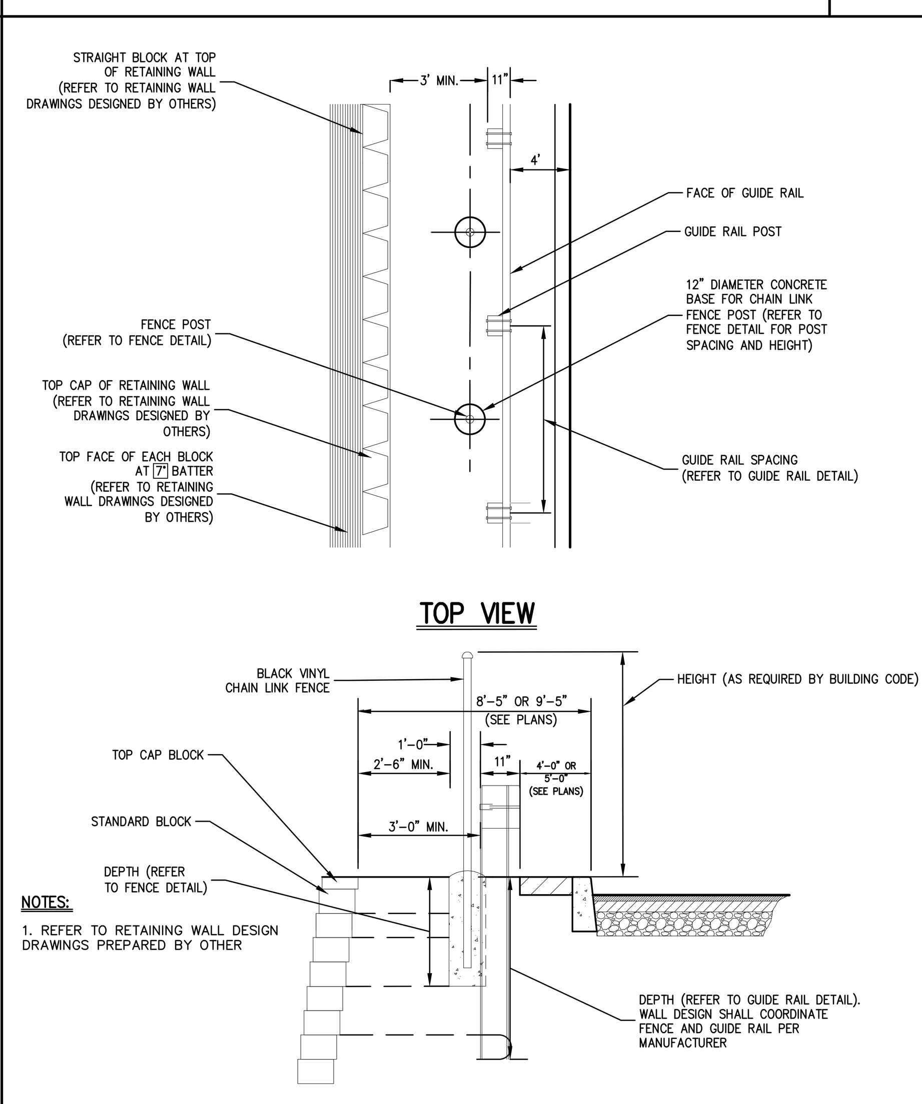
LUMINAIRES AND POLES ARE TO BE THE PRODUCT OF OR APPROVED EQUAL.

1" CHAMFER
4 ANCHOR BOLTS (SEE NOTE #1)
7 #4 HOOPS 12" O.C. WITH 12" MINIMUM LAP
8 #6 BARS SET VERTICALLY ALL AROUND EQUALLY SPACED ON A 24" CIRCLE AND WITH 2 1/2" OF COVER.
2" DIAMETER SCHEDULE 40PVC OR HEAVY DUTY GALVANIZED STEEL 90°BEND (R=24") NO. AS REQUIRED
CONDUIT ADAPTOR COUPLING FOR GALVANIZED STEEL BEND

NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHECK AND VERIFY ALL ANCHOR BOLT DIMENSIONS (SIZE, BOLT CIRCLE, ETC.) WITH THE POLE MANUFACTURER PRIOR TO INSTALLATION OF THE FOUNDATIONS.
2. CHAMFER EXPOSED EDGES OF ALL FOUNDATIONS.
3. PROVIDE INSULATED GROUNDING BUSHING ON EXPOSED ENDS (IN BASE OF POLE) OF ALL GALVANIZED STEEL BENDS.
4. COLOR OF LUMINAIRE SHALL MATCH COLOR OF POLE.
5. CONCRETE BASE SHALL HAVE A 2'-0" EXTENSION ABOVE FINISHED GRADE FOR LIGHT DESIGNATION A,B & C, AND 2 1/2" EXTENSION ABOVE FINISHED GRADE FOR LIGHT DESIGNATIONS A-1, B-1 & C-1 (SEE PLANS).

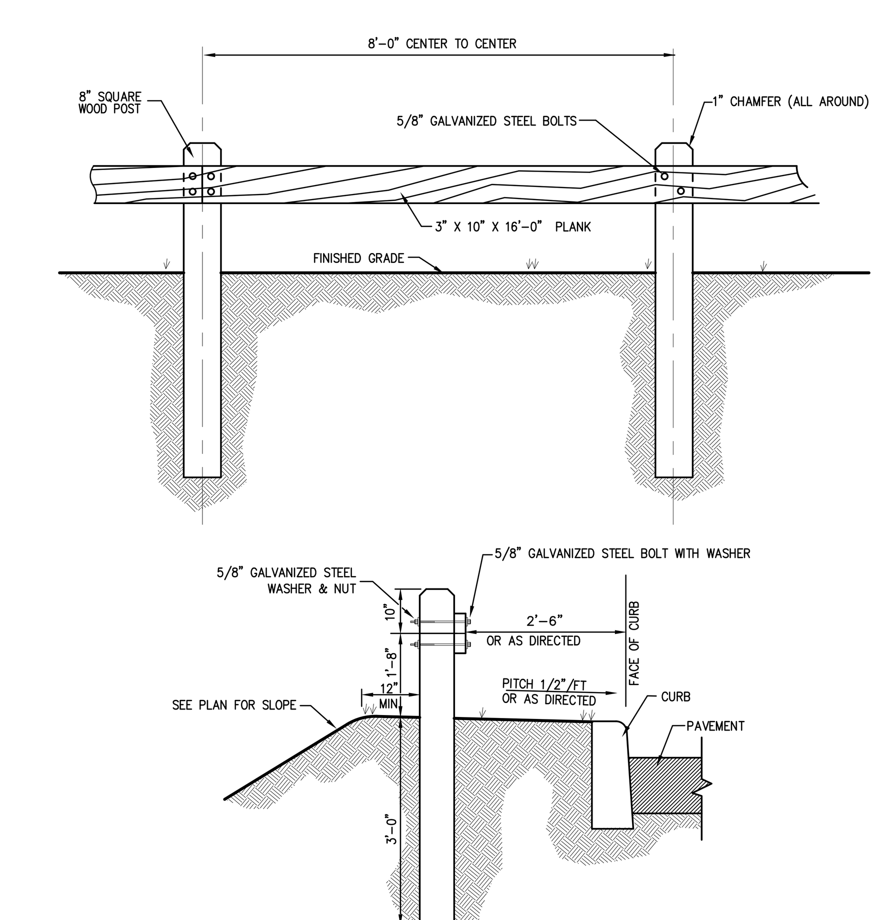
LIGHTING STANDARD 73
(Arm Mounted)



NOTES:

1. REFER TO RETAINING WALL DESIGN DRAWINGS PREPARED BY OTHER

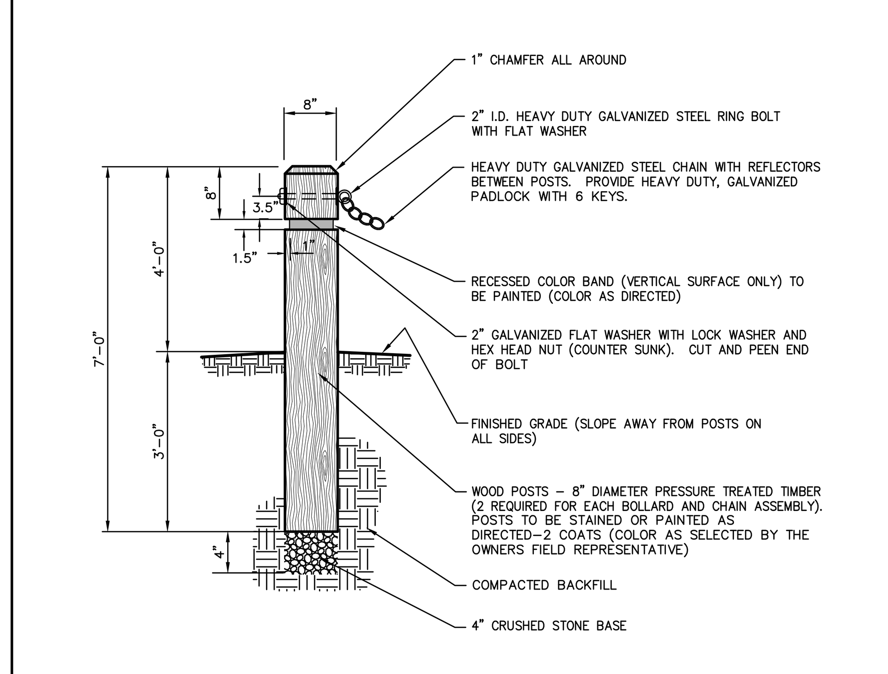
SEGMENTAL RETAINING WALL, GUIDE RAIL, & FENCE DETAIL 74
(TO BE DESIGNED BY OTHERS)



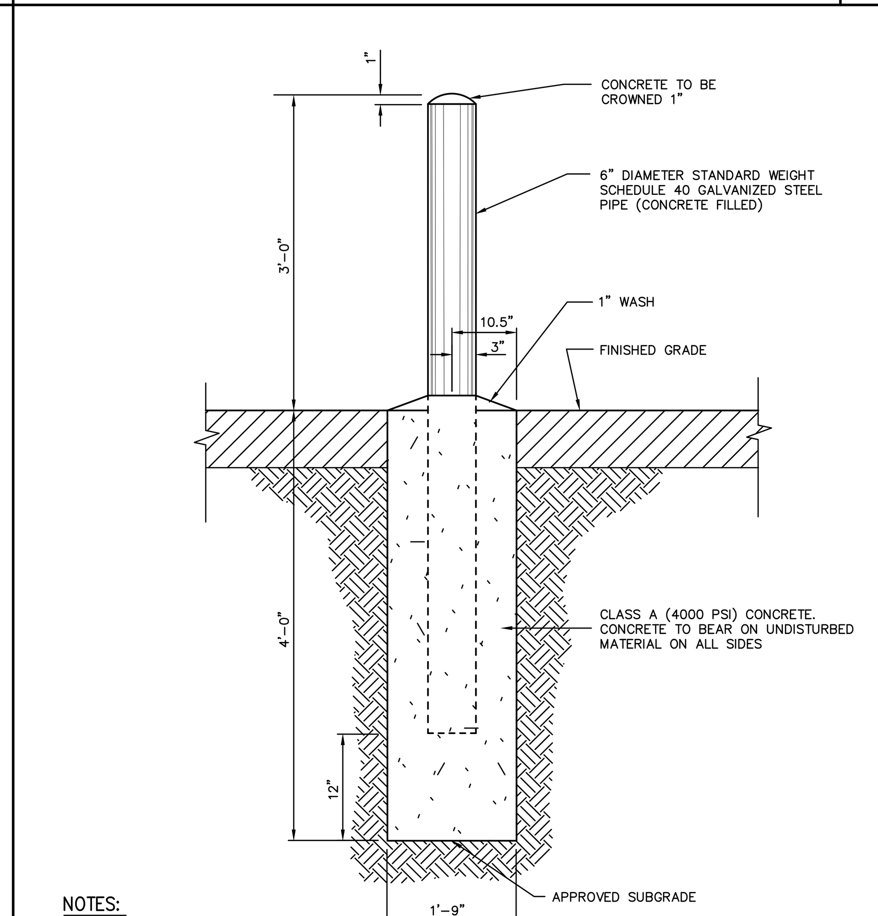
NOTES

1. ALL WOOD TO BE SEASONED NO.1 DOUGLAS FIR, SOUTHERN PINE OR OTHER APPROVED STRUCTURAL LUMBER.
2. GALVANIZED BOLT AND NUT TO BE 4000# MIN., 5400# MAX. TENSILE STRENGTH. AFTER GALVANIZING BOLT AND NUT, THE NUT SHALL BE FREE RUNNING ON THE BOLT.

WOOD GUIDE RAIL 75



BOLLARD & CHAIN ASSEMBLY 76
(WOOD)



NOTES:

1. WHEN PROTECTION POSTS ARE TO BE USED FOR PROTECTION OF HANDICAP PARKING SIGNS OR OTHER TRAFFIC SIGNS, SIGN SUPPORTING POSTS SHALL BE IMBEDDED A MINIMUM OF THREE (3) FEET INTO THE CONCRETE.
2. POST FOR HANDICAP PARKING STALLS SHALL BE PAINTED BLUE AS FOLLOWS:
   A. SOLVENT CLEAN TO REMOVE OIL, GREASE AND OTHER CONTAMINANTS.
   B. APPLY METAL PRIMER FOR GALVANIZED SURFACES.
   C. APPLY TWO (2) FINISH COATS OF APPROVED EXTERIOR PAINT FOR METAL SURFACES.

STEEL PIPE PROTECTION POST 77

No.	Revision	Date	By
1.	PLANNING BOARD SUBMISSION	03/19/2021	BMS
2.	PLANNING BOARD SUBMISSION	06/22/2021	BMS

Previous Editions Obsolete

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P.O. BOX 14
BRIDGEHAMPTON, NY 11932

ARCHITECT: PETER F. GATO & ASSOCIATES
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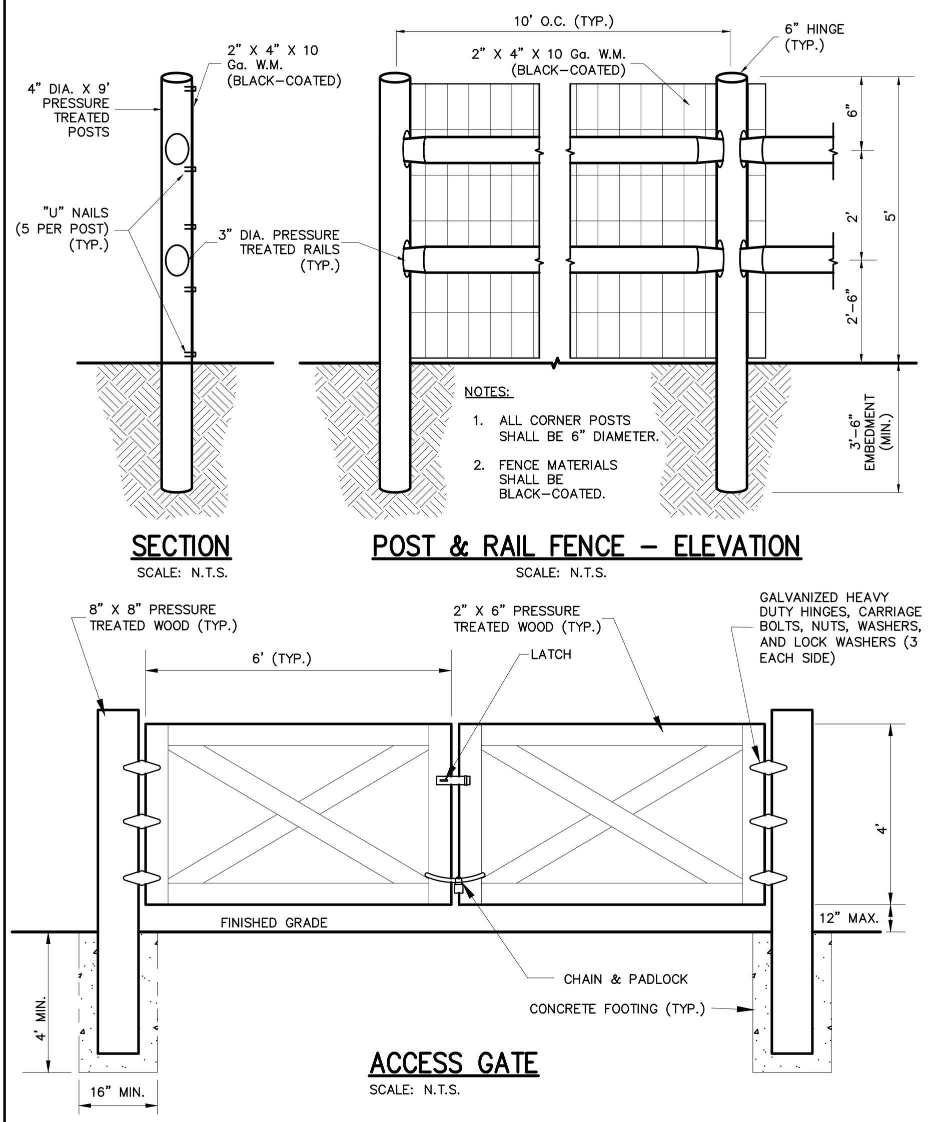
JMC

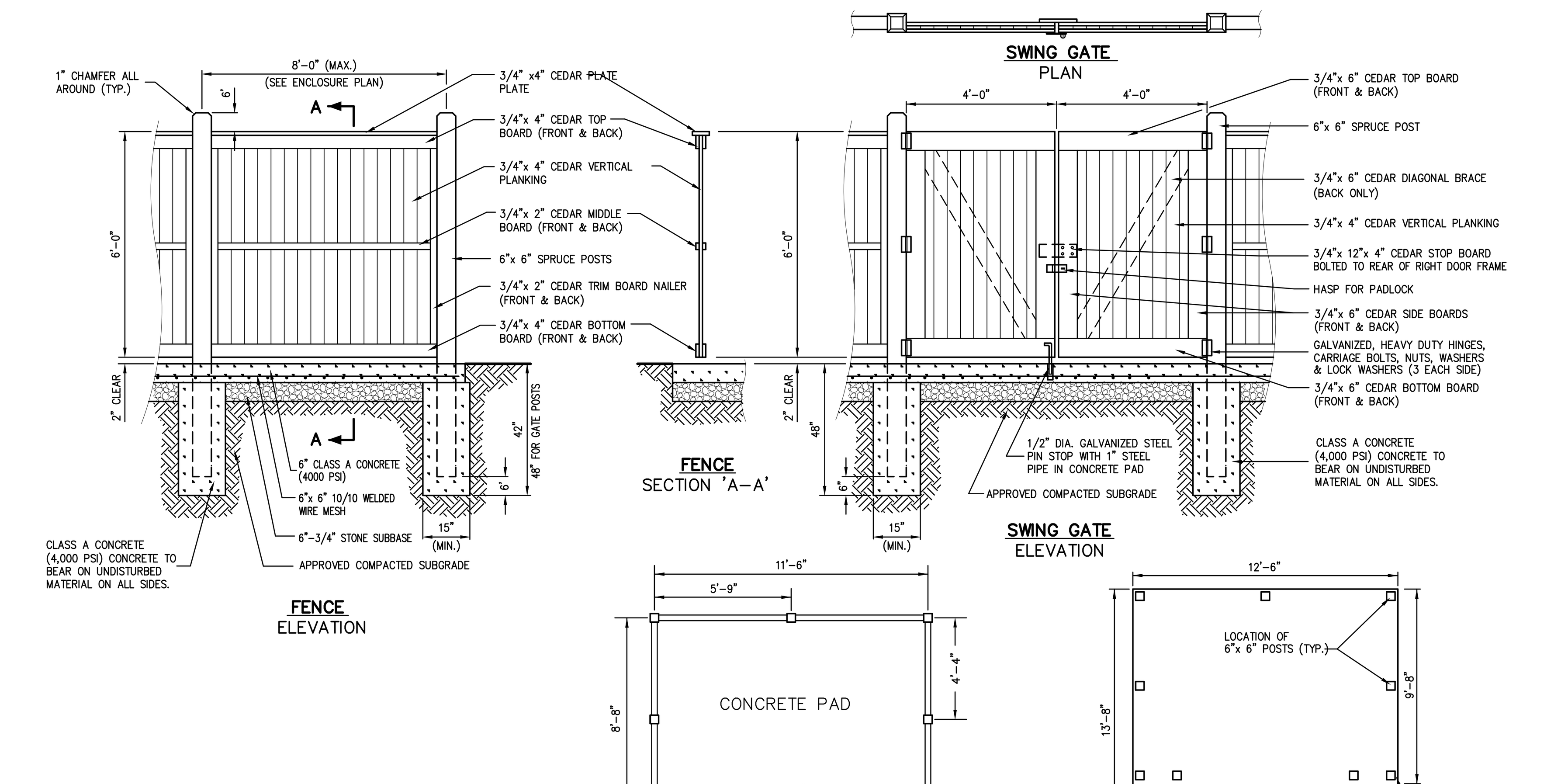
CONSTRUCTION DETAILS
OVERLOOK FARMS A FARRELL COMMUNITY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

Drawn: BMS Approved: JS
Scale: NOT TO SCALE
Date: 03/19/2021
Project No: 17088
17088-DETAILS C-905
Drawing No: C-905



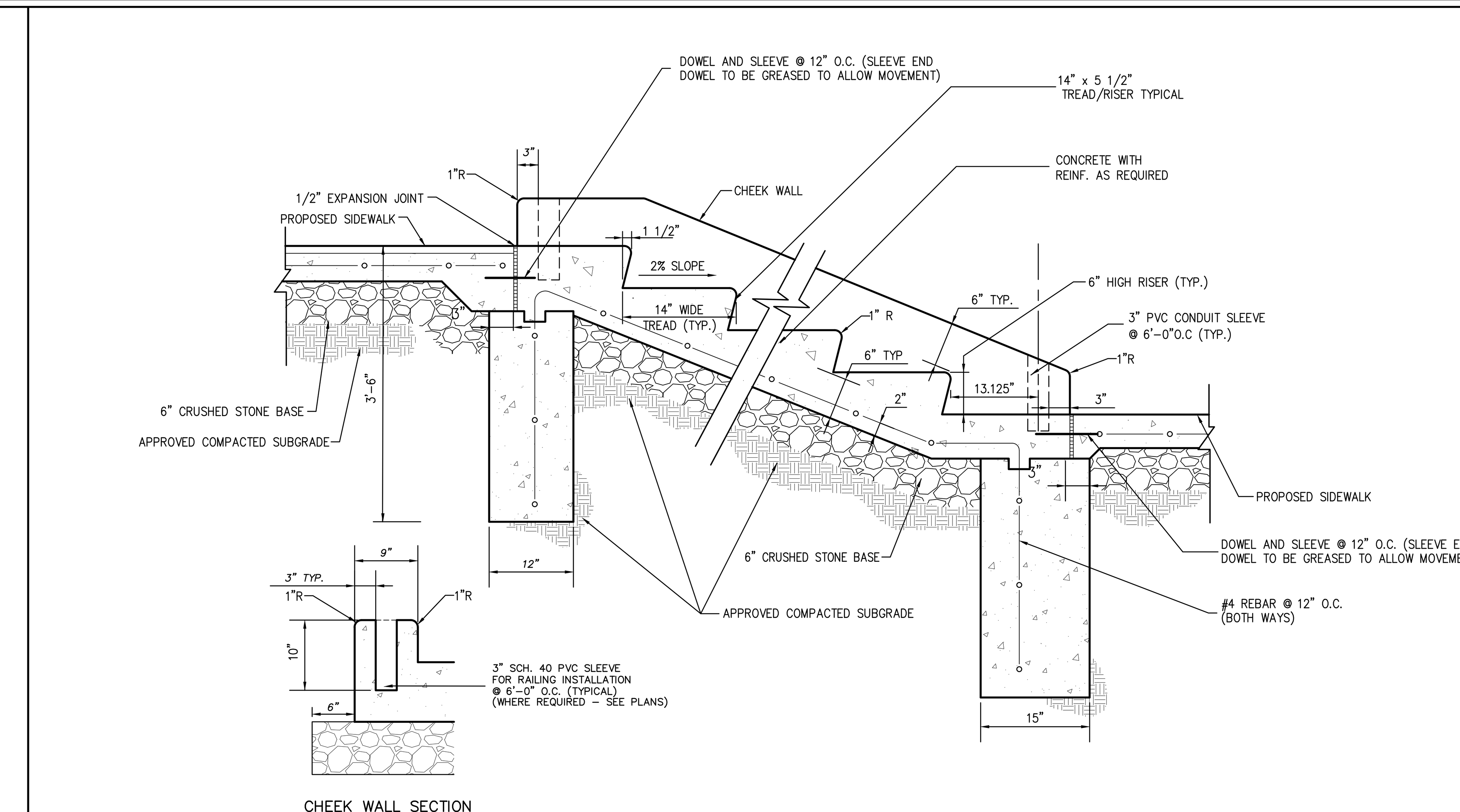
POST & RAIL FENCE (WITH GATE)	78



NOTES:

1. METAL FLANGES, CLEATS, BOLTS, SCREWS, ETC. SHALL BE STAINLESS STEEL OR GALVANIZED STEEL.
2. ALL LUMBER TO BE PRESSURE TREATED WITH WOOD PRESERVATIVE FOR IN GROUND USE. ALL LUMBER TO BE #1 GRADE.
3. SEE SITE LAYOUT PLANS FOR LOCATION.

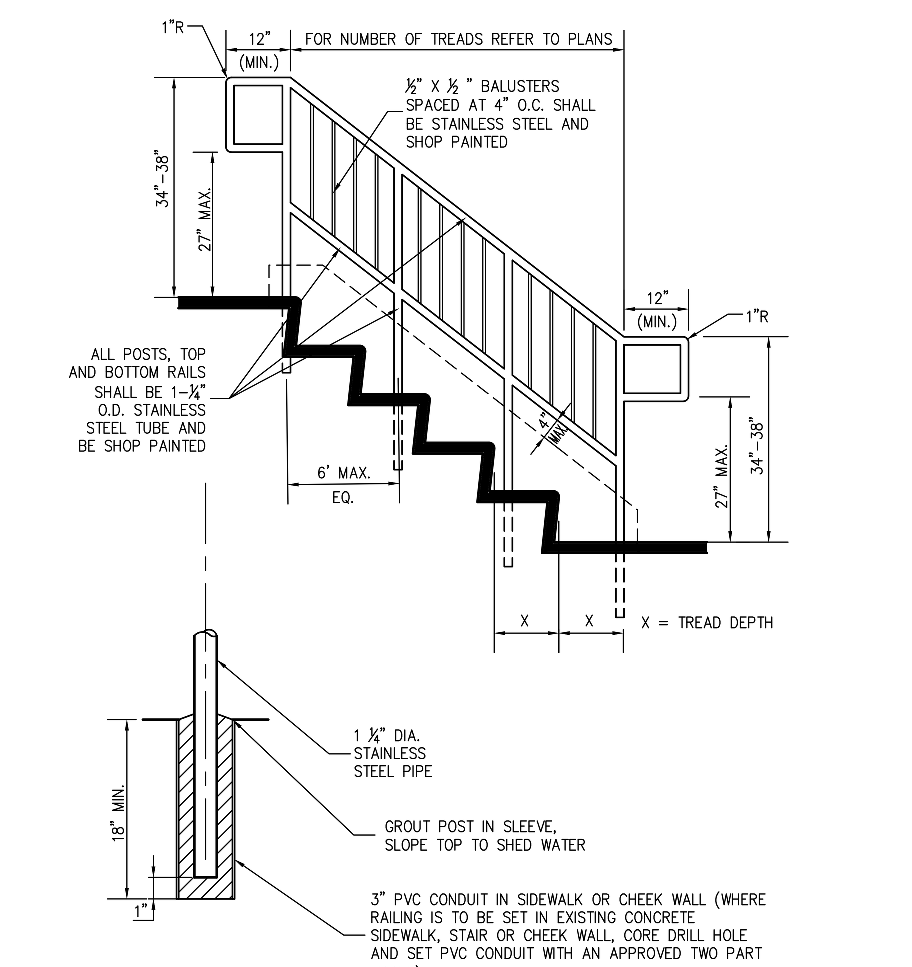
TRASH ENCLOSURE WITH CONCRETE PAD (WOOD)	79



NOTES:

1. CONCRETE FOOTINGS SHALL EXTEND TO 3'-6" BELOW GRADE UNLESS UNFRACTURED BEDROCK IS ENCOUNTERED. IN THE EVENT THAT BEDROCK IS ENCOUNTERED A 12" DEEP KEYWAY SHALL BE CUT INTO THE ROCK, FOR THE ENTIRE LENGTH AND WIDTH OF THE FOOTING.
2. RAILING SHALL BE INSTALLED ON BOTH SIDES OF STEPS.

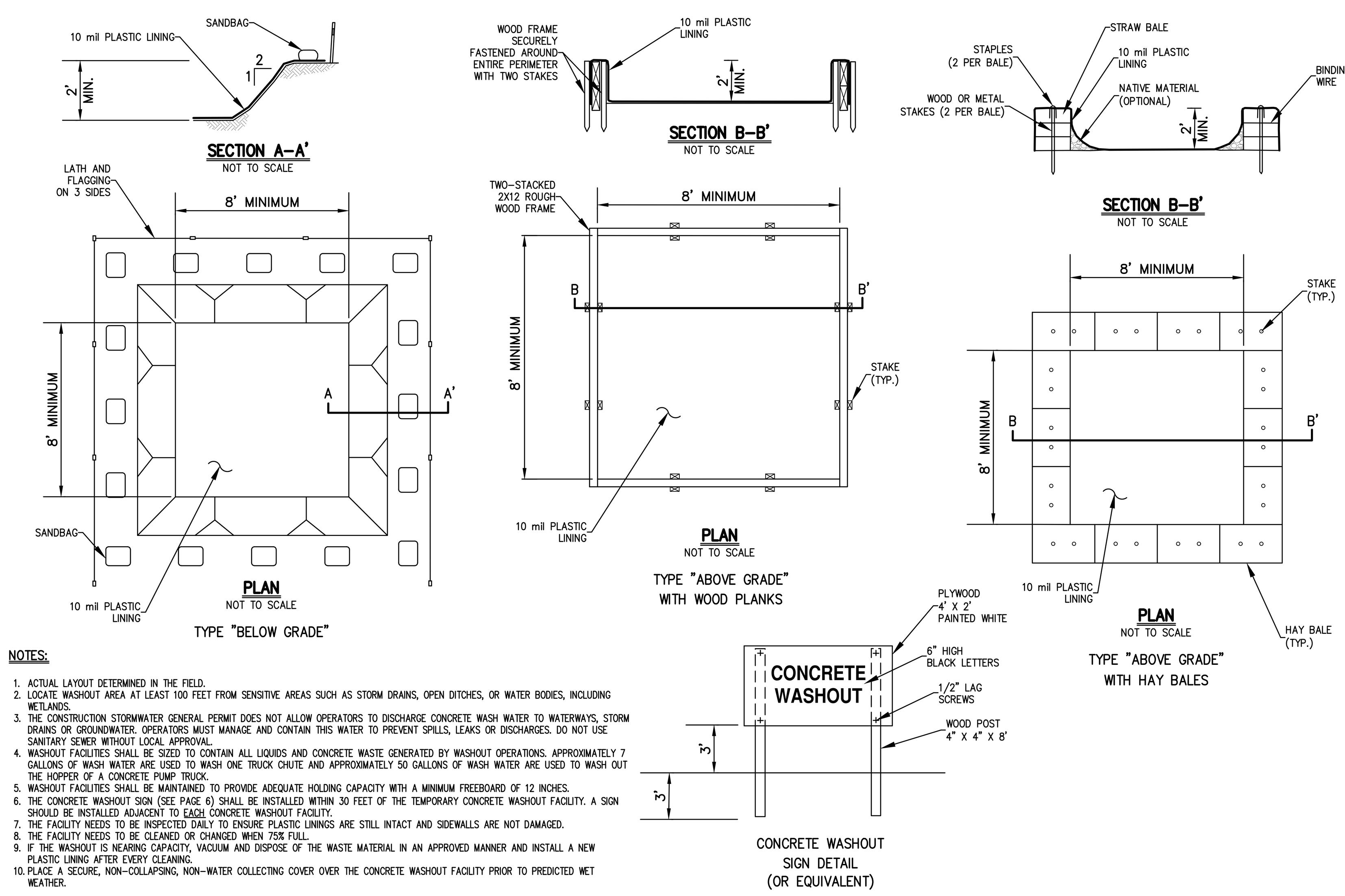
CONCRETE STEPS WITH CHEEK WALL	80



NOTES

1. POSTS SHALL BE SECURELY GROUTED IN PLACE USING AN APPROVED HIGH STRENGTH, NON-SHRINKING, NON-STAINING GROUT.
2. RAILING SHALL BE INSTALLED ON BOTH SIDES OF STEPS.

STEEL PIPE RAILING FOR STAIRS WITH VERTICAL GUARD RAIL	81



NOTES:

1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. LOCATE WASHOUT AREA AT LEAST 100 FEET FROM SENSITIVE AREAS SUCH AS STORM DRAINS, OPEN DITCHES, OR WATER BODIES, INCLUDING WETLANDS.
3. THE CONSTRUCTION STORMWATER GENERAL PERMIT DOES NOT ALLOW OPERATORS TO DISCHARGE CONCRETE WASH WATER TO WATERWAYS, STORM DRAINS OR GROUNDWATER. OPERATORS MUST MANAGE AND CONTAIN THIS WATER TO PREVENT SPILLS, LEAKS OR DISCHARGES. DO NOT USE SANITARY SEWER WITHOUT LOCAL APPROVAL.
4. WASHOUT FACILITIES SHALL BE SIZED TO CONTAIN ALL LIQUIDS AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. APPROXIMATELY 7 GALLONS OF WASH WATER ARE USED TO WASH ONE TRUCK CHUTE AND APPROXIMATELY 50 GALLONS OF WASH WATER ARE USED TO WASH OUT THE HOPPER OF A CONCRETE PUMP TRUCK.
5. WASHOUT FACILITIES SHALL BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 12 INCHES.
6. THE CONCRETE WASHOUT SIGN (SEE PAGE 6) SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY. A SIGN SHOULD BE INSTALLED ADJACENT TO EACH CONCRETE WASHOUT FACILITY.
7. THE FACILITY NEEDS TO BE INSPECTED DAILY TO ENSURE PLASTIC LININGS ARE STILL INTACT AND SIDEWALLS ARE NOT DAMAGED.
8. THE FACILITY NEEDS TO BE CLEANED OR CHANGED WHEN 75% FULL.
9. IF THE WASHOUT IS NEARING CAPACITY, VACUUM AND DISPOSE OF THE WASTE MATERIAL IN AN APPROVED MANNER AND INSTALL A NEW PLASTIC LINING AFTER EVERY CLEANING.
10. PLACE A SECURE, NON-COLLAPSING, NON-WATER COLLECTING COVER OVER THE CONCRETE WASHOUT FACILITY PRIOR TO PREDICTED WET WEATHER.

CONCRETE WASHOUT	82

X

X

X

X

X

X

X

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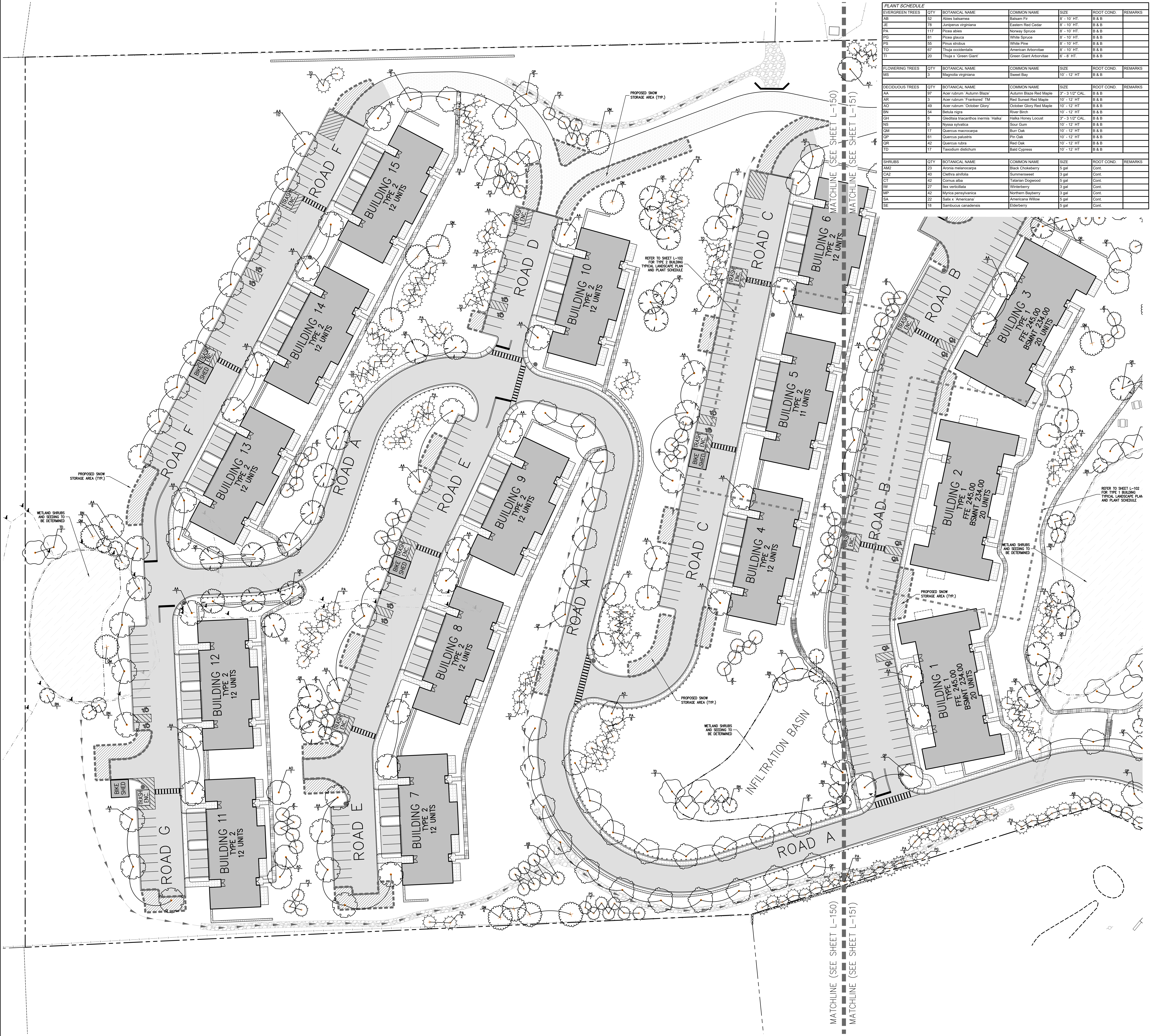

PLANT SCHEDULE

EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT COND.	REMARKS
AB	52	Abies balsamea	Balsam Fir	8` - 10` HT.	B & B	
JE	78	Juniperus virginiana	Eastern Red Cedar	8` - 10` HT.	B & B	
PA	117	Picea abies	Norway Spruce	8` - 10` HT.	B & B	
PG	81	Picea glauca	White Spruce	8` - 10` HT.	B & B	
PS	55	Pinus strobus	White Pine	8` - 10` HT.	B & B	
TO	67	Thuja occidentalis	American Arborvitae	8` - 10` HT.	B & B	
TI	20	Thuja x `Green Giant`	Green Giant Arborvitae	6` - 8` HT.	B & B	

FLOWERING TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT COND.	REMARKS
MS	3	Magnolia virginiana	Sweet Bay	10` - 12` HT	B & B	

DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT COND.	REMARKS
AA	97	Acer rubrum `Autumn Blaze`	Autumn Blaze Red Maple	3" - 3 1/2" CAL.	B & B	
AR	3	Acer rubrum `Franksred` TM	Red Sunset Red Maple	10` - 12` HT	B & B	
AO	49	Acer rubrum `October Glory`	October Glory Red Maple	10` - 12` HT	B & B	
BN	54	Betula nigra	River Birch	10` - 12` HT	B & B	
GH	6	Gleditsia triacanthos inermis `Halka`	Halka Honey Locust	3" - 3 1/2" CAL.	B & B	
NS	5	Nyssa sylvatica	Sour Gum	10` - 12` HT	B & B	
QM	17	Quercus macrocarpa	Burr Oak	10` - 12` HT	B & B	
QP	61	Quercus palustris	Pin Oak	10` - 12` HT	B & B	
QR	42	Quercus rubra	Red Oak	10` - 12` HT	B & B	
TD	17	Taxodium distichum	Bald Cypress	10` - 12` HT	B & B	

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT COND.	REMARKS
AM2	23	Aronia melanocarpa	Black Chokeberry	5 gal	Cont.	
CA2	40	Clethra alnifolia	Summersweet	3 gal	Cont.	
CT	42	Cornus alba	Tatarian Dogwood	5 gal	Cont.	
IW	27	Ilex verticillata	Winterberry	3 gal	Cont.	
MP	42	Myrica pensylvanica	Northern Bayberry	3 gal	Cont.	
SA	22	Salix x `Americana`	Americana Willow	5 gal	Cont.	
SE	18	Sambucus canadensis	Elderberry	5 gal	Cont.	

LEGEND

- EXISTING PROPERTY LINE
- ADJACENT PROPERTY LINE
- EXISTING SETBACK LINE
- WLF-63 WLF-64 WLF-65 EXISTING WETLAND LINE AND DELINEATION
- EXISTING BUILDING OVERHANG
- EXISTING BUILDING LINE
- EXISTING PAVEMENT EDGE
- EXISTING CURB LINE
- EXISTING STONE WALL
- EXISTING RETAINING WALL
- EXISTING GUIDE RAIL
- EXISTING FENCE
- T10 M EXISTING TREE AND DESIGNATION
- EXISTING TREE LINE
- EXISTING DIRECTIONAL ARROWS
- EXISTING PAINT
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING SIGN
- PROPOSED BUILDING LINE
- PROPOSED CONCRETE CURB
- PROPOSED CONCRETE SIDEWALK
- PROPOSED DROP CURB AND RAMP
- PROPOSED PAVEMENT
- PROPOSED CONCRETE
- PROPOSED SNOW STORAGE AREA
- PROPOSED RETAINING WALL (DESIGN BY OTHERS)
- PROPOSED FENCE
- PROPOSED DOUBLE ARM LIGHTING STANDARD (DESIGN BY OTHERS)
- PROPOSED SINGLE ARM LIGHTING STANDARD (DESIGN BY OTHERS)
- 2-4" WIDE YELLOW LINES 8"O.C.
- 12" WIDE WHITE STOP LINE
- TRAFFIC SIGN LOCATION & DESIGNATION
- PROPOSED SHADE TREE
- PROPOSED FLOWERING TREE
- PROPOSED CONIFEROUS TREE
- PROPOSED SHRUBS
- PROPOSED SHRUB MASSING

NOTES:

1. ALL PLANT MATERIAL SHALL BE FIRST QUALITY STOCK. PLANTED MATERIAL AND METHODS OF INSTALLATION SHALL CONFORM TO THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION, AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION.
2. ALL AREAS OF THE SITE NOT OCCUPIED BY BUILDING OR PAVEMENT AND NOT SPECIFIED AS BEING PLANTED WITH TREES, SHRUBS OR GROUND COVER SHALL BE LAWN.
3. ALL PLANTING BEDS SHALL BE MULCHED WITH 3" OF BROWN MULCH. MULCH SHALL BE CLEAN, NON-DYED, TOXIC FREE, SHREDDED HARDWOOD.
4. PLANT MATERIALS AS SPECIFIED ON THE DRAWINGS AND DELIVERED TO THE SITE SHALL BE NURSERY GROWN AND CERTIFIED TRUE TO THEIR GENUS, SPECIES AND VARIETY. SUBSTITUTIONS ARE NOT PERMITTED WITHOUT THE PROJECT LANDSCAPE ARCHITECTS WRITTEN APPROVAL.
5. ALL LANDSCAPING SHALL CONTINUE TO BE MAINTAINED IN A HEALTHY GROWING CONDITION THROUGHOUT THE DURATION OF THE PROJECT. ANY PLANTING NOT SO MAINTAINED SHALL BE REPLACED WITH NEW PLANTS AT THE BEGINNING OF THE NEXT, IMMEDIATELY FOLLOWING, GROWING SEASON.
6. ALL TREES AND SHRUBS SHALL BE PRUNED AND SHAPED AND BE SUBJECT TO THE APPROVAL OF THE PROJECT LANDSCAPE ARCHITECT AND GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.
7. PLANTING STOCK SHALL BE WELL-BRANCHED AND WELL-FORMED, SOUND, VIGOROUS, HEALTHY, FREE FROM DISEASE, SUN-SCALE, WINDBURN, ABRASION, AND HARMFUL INSECTS OR INSECTS EGGS; AND SHALL HAVE HEALTHY, NORMAL UNBROKEN ROOT SYSTEMS. DECIDUOUS TREES AND SHRUBS SHALL BE SYMMETRICALLY DEVELOPED, OF UNIFORM HABIT OF GROWTH, WITH STRAIGHT TRUNKS OR STEMS, AND FREE FROM OBJECTIONABLE DISFIGUREMENTS. EVERGREEN TREES AND SHRUBS SHALL HAVE WELL-DEVELOPED SYMMETRICAL TOPS WITH TYPICAL SPREAD OF BRANCHES FOR EACH PARTICULAR SPECIES OR VARIETY. ONLY VINES AND GROUND COVER PLANTS WELL ESTABLISHED IN REMOVAL CONTAINERS, INTEGRAL CONTAINERS, OR FORMED HOMOGENEOUS SOIL SECTIONS SHALL BE USED. PLANTS SHALL BE GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT.
8. ALL STOCK SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN STOCK, UNLESS OTHERWISE SPECIFIED. BAREROOT STOCK OF ANY KIND IS UNACCEPTABLE UNLESS SPECIFIED.
9. ALL PLANTING BEDS, LAWNS AND LANDSCAPED AREAS SHALL RECEIVE A MINIMUM 4" THICK LAYER OF TOPSOIL, UNLESS OTHERWISE SPECIFIED.
10. THE CONTRACTOR IS INFORMED THAT A LANDSCAPE BOND IS REQUIRED IN ACCORDANCE WITH THE RESOLUTION OF SITE PLAN APPROVAL IN AN AMOUNT DETERMINED BY THE TOWN LANDSCAPE ARCHITECT. UPON COMPLETION OF INSTALLATION, PLANTINGS SHALL BE INSPECTED AND ACCEPTED BY THE TOWN LANDSCAPE ARCHITECT. ONE YEAR AFTER THE ACCEPTANCE, A PARTIAL RELEASE OF THE LANDSCAPE BOND MAY BE REQUESTED AND TWO YEARS AFTER THE ACCEPTANCE, A FULL RELEASE OF THE LANDSCAPE BOND MAY BE REQUESTED.
11. THE CONTRACTOR SHALL SPECIFY NATIVE SEED MIXES TO BE USED FOR ALL AREAS REQUIRING SEED MIX COVER, I.E. EROSION CONTROL MIX, NATIVE MEADOW MIX, NATIVE GRASS MIX, AND WETLAND BASIN MIX AS REQUIRED.
12. UPON COMPLETION OF THE FINAL LANDSCAPE PLAN, THE CONSULTANT TEAM SHALL APPROXIMATE THE AMOUNT OF TOPSOIL NEEDED TO REMAIN ON PROJECT SITE BASED ON THE FOLLOWING, TO BE APPROVED BY THE PROJECT'S LANDSCAPE ARCHITECT:
   - 12.1. LAWN AND SEEDED AREAS AT 6"-8" TOPSOIL
   - 12.2. PLANTING BEDS AT 12" TOPSOIL
   - 12.3. TREES PITS PROVIDE TOPSOIL 18"-24" BEYOND THE TREE BALL
13. SOIL SHALL BE INSPECTED BEFORE PLANTING AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE TOWN'S LANDSCAPE ARCHITECT TO INSPECT SOILS (PROFESSIONAL SOIL ANALYSIS MAY BE REQUIRED) AT THE BEGINNING OF SOIL WORK TO ENSURE SOIL MEETS SPECIFICATION ON THE APPROVED PLAN.
14. ALL PLANTS SHALL BE INSPECTED BY JMC PRIOR TO PLANTING TO ENSURE THAT PLANTS MEET SIZE AND SPECIES SPECIFICATIONS.
15. THE CONTRACTOR IS INFORMED THAT TOPSOIL TO BE USED ON SITE FOR LANDSCAPE PURPOSES SHALL BE SUBJECT TO TESTING BY AN INDEPENDENT LAB PRIOR TO BEING DISTRIBUTED ACROSS THE SITE FOR COMPLIANCE WITH THE SPECIFICATIONS PROVIDED HEREON AND/OR TECHNICAL SPECIFICATIONS. SPECIAL ATTENTION SHALL BE GIVEN TO THE TOPSOIL, AS IT IS CRITICAL TO THE SURVIVAL/HEALTH OF THE PROPOSED PLANT MATERIAL. TEST RESULTS SHALL BE PROVIDED TO THE PROJECT LANDSCAPE ARCHITECT AND TOWN LANDSCAPE ARCHITECT FOR THEIR REVIEW/APPROVAL. CONTRACTOR SHALL AMEND THE SUBSOIL AND/OR TOPSOIL TO MEET THE SPECIFICATIONS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL COORDINATE WITH THE TOWN AND PROJECT LANDSCAPE ARCHITECTS FOR INSPECTION OF THE SUBGRADE AND TOPSOIL PRIOR TO THE START OF PLANTING
16. THE CONTRACTOR IS INFORMED THAT, IF REQUIRED BY THE BUILDING CODE OFFICIAL, ALL LANDSCAPE PLANTINGS SHALL BE SUBJECT TO INSPECTION AND ACCEPTANCE OF THE TOWN LANDSCAPE ARCHITECT PRIOR TO CERTIFICATE OF OCCUPANCY.
17. THE CONTRACTOR SHALL INSTALL 6" TOPSOIL COMPOST MIX ON AREAS WHERE SEEDING IS PROPOSED. SCARIFY OR DIG PROPOSED SEEDING AREAS TO A DEPTH OF 6" OR SO.

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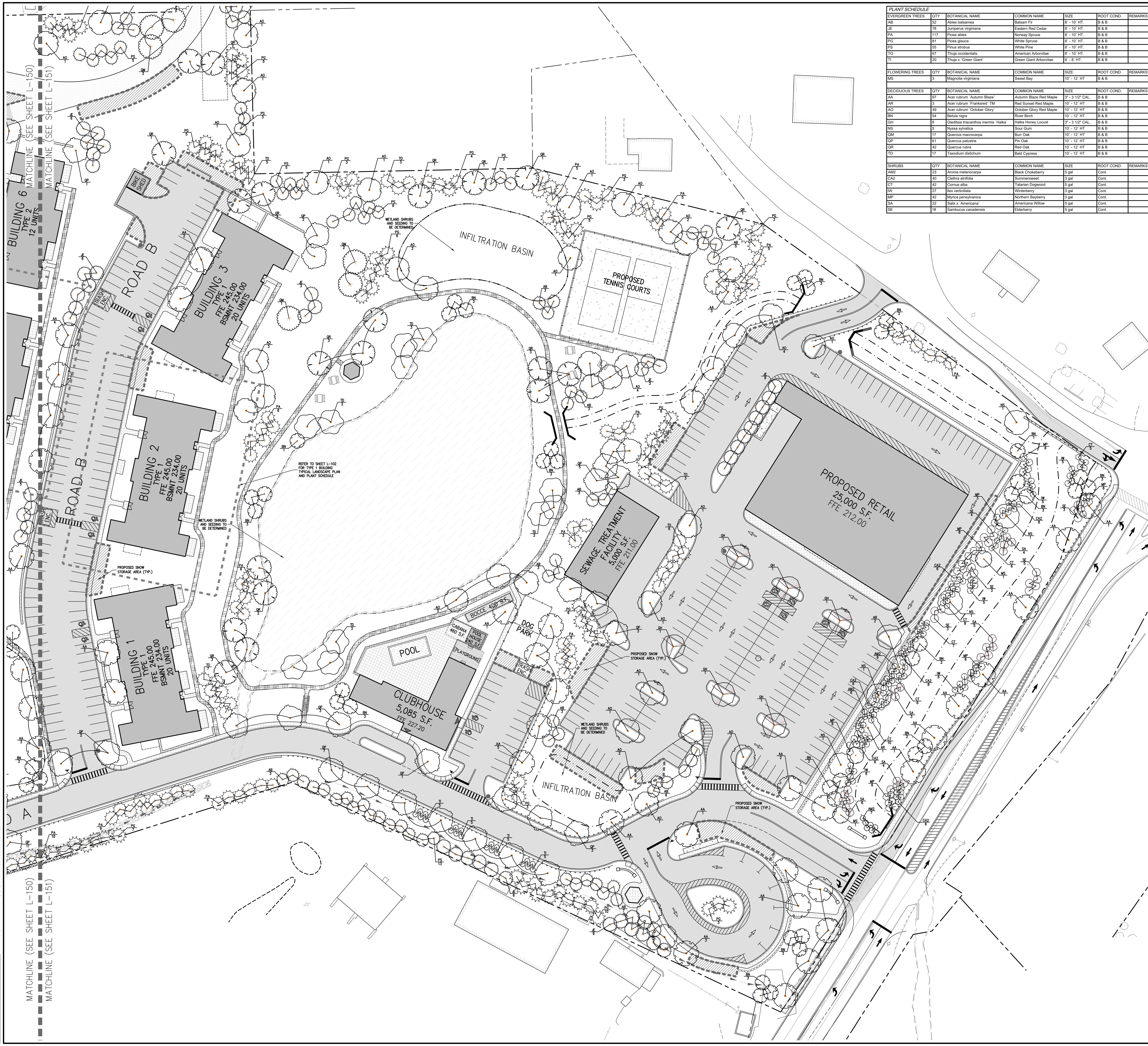
PRELIMINARY LANDSCAPE PLAN

OVERLOOK FARMS A FARRELL COMMUNITY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

Drawn: JJ		Approved: JS
Scale: 1" = 30'		
Date: 03/19/2021		
Project No: 17088		
17088-LAND	L-100	LAND.scr
Drawing No: L-100		



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Previous Editions Obsolete

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ARCHITECT: PETER F. GATO & ASSOCIATES
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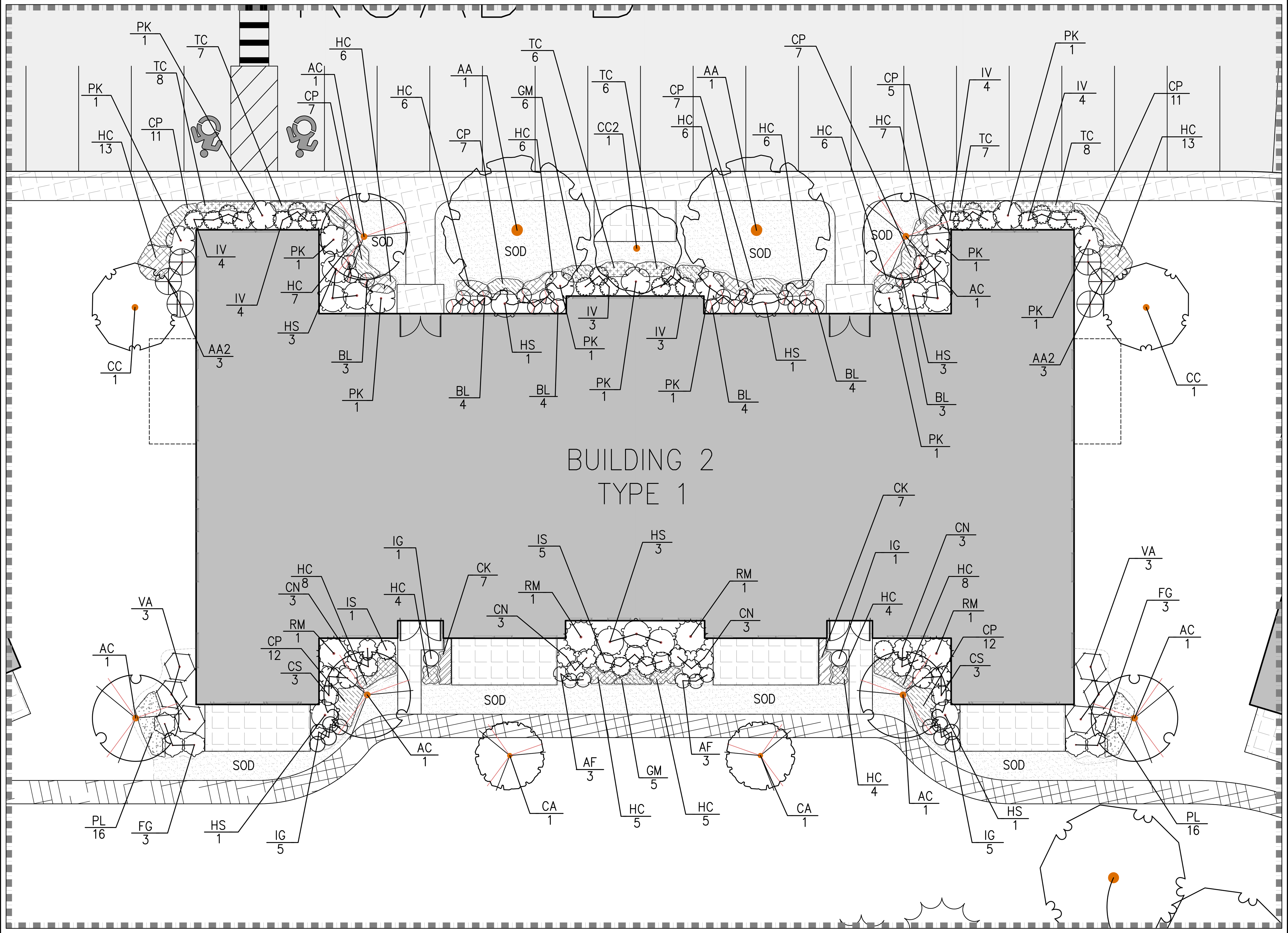
JMC

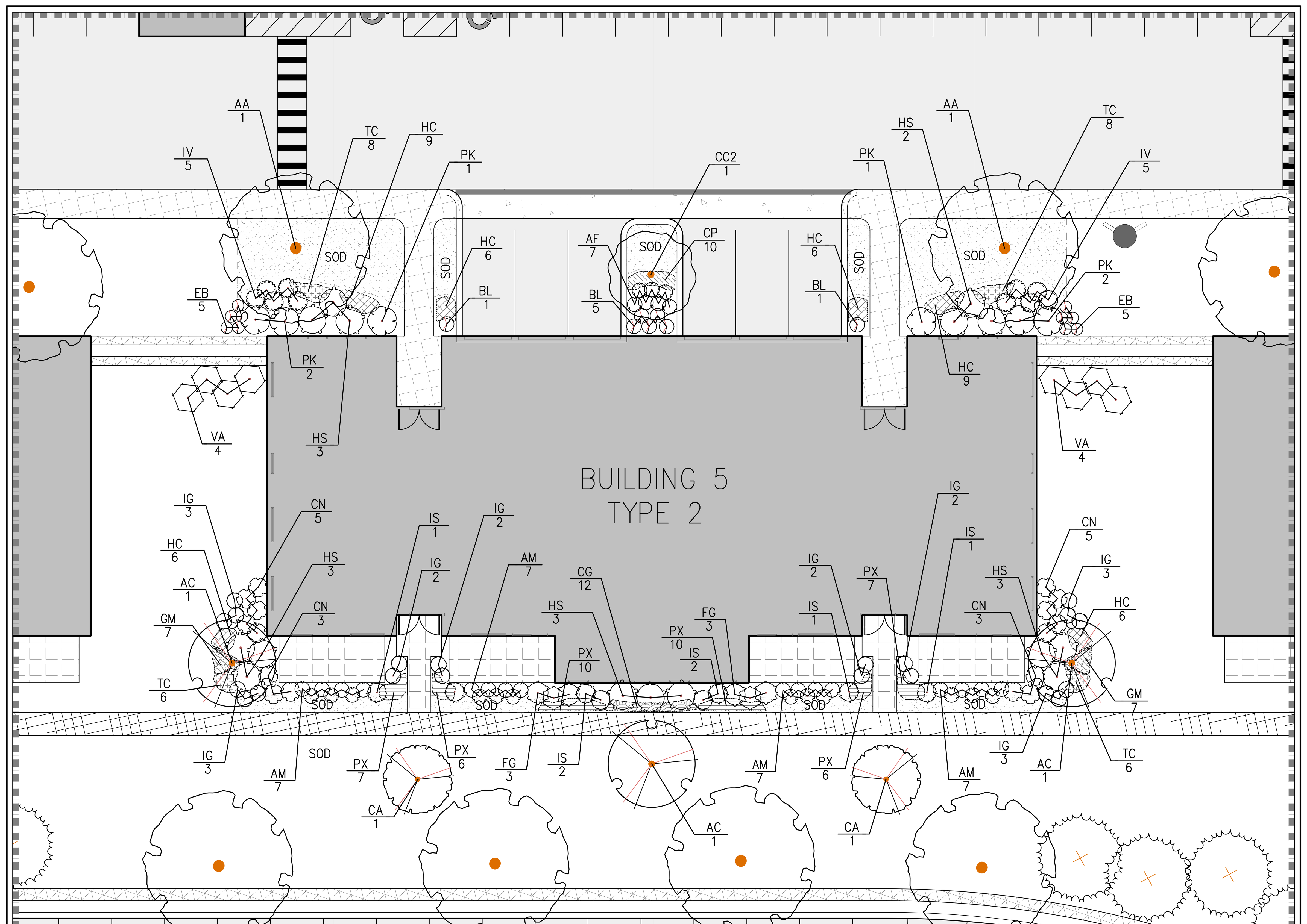
PRELIMINARY LANDSCAPE PLAN

OVERLOOK FARMS A FARRELL COMMUNITY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

Drawn:	JJ	Approved:	JS
Scale:	1" = 30'		
Date:	03/19/2021		
Project No:	17088		
17088-LAND	L-101	LAND.scr	
Drawing No:	L-101		



TYPE 1 BUILDING TYPICAL PLANTING PLAN



TYPE 2 BUILDING TYPICAL PLANTING PLAN

TYPE 1 BUILDING TYPICAL PLANT SCHEDULE						
FLOWERING TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT COND.	REMARKS
AC	6	Amelanchier canadensis	Canadian Serviceberry	8` - 10` HT.	B & B	
CC2	1	Cercis canadensis	Eastern Redbud	8` - 10` HT.	B & B	
CA	2	Cornus florida `Appalachian Spring`	Appalachian Spring Dogwood	10` - 12` HT	B & B	
DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT COND.	REMARKS
AA	2	Acer rubrum `Autumn Blaze`	Autumn Blaze Red Maple	3" - 3 1/2" CAL.	B & B	
CC	2	Carpinus caroliniana	American Hornbeam	6` - 7` HT.	B & B	
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT COND.	REMARKS
AA2	6	Aronia arbutifolia	Red Chokeberry	5 gal	Cont.	
AF	6	Aronia melanocarpa `Low Scape`	Dwarf Chokeberry	3 gal	Cont.	
BL	22	Buxus microphylla `Little Missy`	Little Missy Littleleaf Boxwood	5 gal	Cont.	
CS	6	Clethra alnifolia `Sixteen Candles`	Summersweet Clethra	3 gal	Cont.	
CN	12	Cornus sericea `Artic sun`	Red Osier Dogwood	3 gal	Cont.	
FG	6	Fothergilla gardenii	Dwarf Fothergilla	3 gal	Cont.	
HS	13	Hydrangea quercifolia `Sike`s Dwarf`	Sike`s Dwarf Oakleaf Hydrangea	3 gal	Cont.	
IS	7	Ilex glabra `Shamrock`	Shamrock Inkberry Holly	3 gal	Cont.	
IG	12	Ilex glabra `Strongbox`	Dwarf Inkberry Holly	3 gal	Cont.	
IV	22	Itea virginica `Henry`s Garnet`	Henry`s Garnet Sweetspire	3 gal	Cont.	
PK	11	Pieris japonica `Katsura`	Japanese Andromeda	30" - 36" HT.	B & B	
RM	4	Rhododendron x `Nova Zembla`	Nova Zembla Rhododedron	3` - 4` HT.	B & B	
VA	6	Viburnum dentatum	Arrowood Viburnum	5 gal	Cont.	
PERENNIALS / GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE		REMARKS
CK	14	Calamagrostis x acutiflora `Karl Foerster`	Karl Foerster Feather Reed Grass	2 gal		
CP	84	Carex pensylvanica	Pennsylvania Sedge	1 gal		
GM	17	Geranium maculatum	Spotted Geranium	1 gal		
HC	110	Heuchera x `Caramel`	Caramel Coral Bells	1 gal		
PL	32	Potentilla fruticosa `Dwarf Hallman`	Dwarf Hallman Cinquefoil	2 gal		
TC	42	Tiarella cordifolia	Foamflower	1 gal		

NOTE:

1. THIS BUILDING TYPE 1 TYPICAL PLANT SCHEDULE PROVIDES QUANTITIES NECESSARY FOR A SINGLE BUILDING. THESE QUANTITIES WILL BE MULTIPLIED BY 3 TO REFLECT THE ACTUAL QUANTITIES NEEDED FOR BUILDINGS 1, 2, & 3.

TYPE 2 BUILDING TYPICAL PLANT SCHEDULE						
FLOWERING TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT COND.	REMARKS
AC	3	Amelanchier canadensis	Canadian Serviceberry	8` - 10` HT.	B & B	
CC2	1	Cercis canadensis	Eastern Redbud	8` - 10` HT.	B & B	
CA	2	Cornus florida `Appalachian Spring`	Appalachian Spring Dogwood	10` - 12` HT	B & B	
DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT COND.	REMARKS
AA	2	Acer rubrum `Autumn Blaze`	Autumn Blaze Red Maple	3" - 3 1/2" CAL.	B & B	
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT COND.	REMARKS
AF	7	Aronia melanocarpa `Low Scape`	Dwarf Chokeberry	3 gal	Cont.	
BL	7	Buxus microphylla `Little Missy`	Little Missy Littleleaf Boxwood	5 gal	Cont.	
CN	16	Cornus sericea `Artic sun`	Red Osier Dogwood	3 gal	Cont.	
FG	6	Fothergilla gardenii	Dwarf Fothergilla	3 gal	Cont.	
HS	15	Hydrangea quercifolia `Sike`s Dwarf`	Sike`s Dwarf Oakleaf Hydrangea	3 gal	Cont.	
IS	8	Ilex glabra `Shamrock`	Shamrock Inkberry Holly	3 gal	Cont.	
IG	20	Ilex glabra `Strongbox`	Dwarf Inkberry Holly	3 gal	Cont.	
IV	10	Itea virginica `Henry`s Garnet`	Henry`s Garnet Sweetspire	3 gal	Cont.	
PK	6	Pieris japonica `Katsura`	Japanese Andromeda	30" - 36" HT.	B & B	
VA	8	Viburnum dentatum	Arrowood Viburnum	5 gal	Cont.	
PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT COND.	REMARKS
AM	28	Amsonia x `Blue Ice"	Eastern Bluestar	2 gal.	Cont.	
EB	10	Eupatorium dubium `Baby Joe`	Baby Joe Joe-Pye Weed	3 gal	Cont.	
PERENNIALS / GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE		REMARKS
CP	10	Carex pensylvanica	Pennsylvania Sedge	1 gal		
CG	12	Coreopsis grandiflora	Tickseed	2 gal		
GM	14	Geranium maculatum	Spotted Geranium	1 gal		
HC	42	Heuchera x `Caramel`	Caramel Coral Bells	1 gal		
PX	46	Pennisetum x `Fox Trot`	Evergreen Fountain Grass	1 gal		
TC	28	Tiarella cordifolia	Foamflower	1 gal		

NOTE:

1. THIS BUILDING TYPE 1 TYPICAL PLANT SCHEDULE PROVIDES QUANTITIES NECESSARY FOR A SINGLE BUILDING. THESE QUANTITIES WILL BE MULTIPLIED BY 12 TO REFLECT THE ACTUAL QUANTITIES NEEDED FOR BUILDINGS 4–15.

LEGEND

- EXISTING PROPERTY LINE
- ADJACENT PROPERTY LINE
- EXISTING SETBACK LINE
- EXISTING WETLAND LINE AND DELINEATION
- EXISTING BUILDING OVERHANG
- EXISTING BUILDING LINE
- EXISTING PAVEMENT EDGE
- EXISTING CURB LINE
- EXISTING STONE WALL
- EXISTING RETAINING WALL
- EXISTING GUIDE RAIL
- EXISTING FENCE
- EXISTING TREE AND DESIGNATION
- EXISTING TREE LINE
- EXISTING DIRECTIONAL ARROWS
- EXISTING PAINT
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING SIGN
- PROPOSED BUILDING LINE
- PROPOSED CONCRETE CURB
- PROPOSED CONCRETE SIDEWALK
- PROPOSED DROP CURB AND RAMP
- PROPOSED PAVEMENT
- PROPOSED CONCRETE
- PROPOSED SNOW STORAGE AREA
- PROPOSED RETAINING WALL (DESIGN BY OTHERS)
- PROPOSED FENCE
- PROPOSED DOUBLE ARM LIGHTING STANDARD (DESIGN BY OTHERS)
- PROPOSED SINGLE ARM LIGHTING STANDARD (DESIGN BY OTHERS)
- 2–4" WIDE YELLOW LINES 8"O.C.
- 12" WIDE WHITE STOP LINE
- TRAFFIC SIGN LOCATION & DESIGNATION
- PROPOSED SHADE TREE
- PROPOSED FLOWERING TREE
- PROPOSED CONIFEROUS TREE
- PROPOSED SHRUBS
- PROPOSED SHRUB MASSING

NOTES:

1. ALL PLANT MATERIAL SHALL BE FIRST QUALITY STOCK. PLANTED MATERIAL AND METHODS OF INSTALLATION SHALL CONFORM TO THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION, AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION.
2. ALL AREAS OF THE SITE NOT OCCUPIED BY BUILDING OR PAVEMENT AND NOT SPECIFIED AS BEING PLANTED WITH TREES, SHRUBS OR GROUND COVER SHALL BE LAWN.
3. ALL PLANTING BEDS SHALL BE MULCHED WITH 3" OF BROWN MULCH. MULCH SHALL BE CLEAN, NON–DYED, TOXIC FREE, SHREDDED HARDWOOD.
4. PLANT MATERIALS AS SPECIFIED ON THE DRAWINGS AND DELIVERED TO THE SITE SHALL BE NURSERY GROWN AND CERTIFIED TRUE TO THEIR GENUS, SPECIES AND VARIETY. SUBSTITUTIONS ARE NOT PERMITTED WITHOUT THE PROJECT LANDSCAPE ARCHITECTS WRITTEN APPROVAL.
5. ALL LANDSCAPING SHALL CONTINUE TO BE MAINTAINED IN A HEALTHY GROWING CONDITION THROUGHOUT THE DURATION OF THE PROJECT. ANY PLANTING NOT SO MAINTAINED SHALL BE REPLACED WITH NEW PLANTS AT THE BEGINNING OF THE NEXT, IMMEDIATELY FOLLOWING, GROWING SEASON.
6. ALL TREES AND SHRUBS SHALL BE PRUNED AND SHAPED AND BE SUBJECT TO THE APPROVAL OF THE PROJECT LANDSCAPE ARCHITECT AND GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.
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PRELIMINARY TYPICAL UNIT LANDSCAPE PLAN

OVERLOOK FARMS A FARRELL COMMUNITY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

Drawn: JJ Approved: JS
Scale: 1" = 10'
Date: 03/19/2021
Project No: 17088
Drawing No: L–102

PRELIMINARY STORMWATER POLLUTION PREVENTION PLAN

OVERLOOK FARMS A FARRELL COMMUNITY

5417 ROUTE 9W
TOWN OF NEWBURGH, NY

Applicant/Operator/ Owner: **Farrell Communities at Overlook Ponds LLC**
2317 Montauk Highway
Bridgehampton, NY 11932
631-766-0023

Prepared by: JMC

JMC Project 17088

Dated: 06/22/2021

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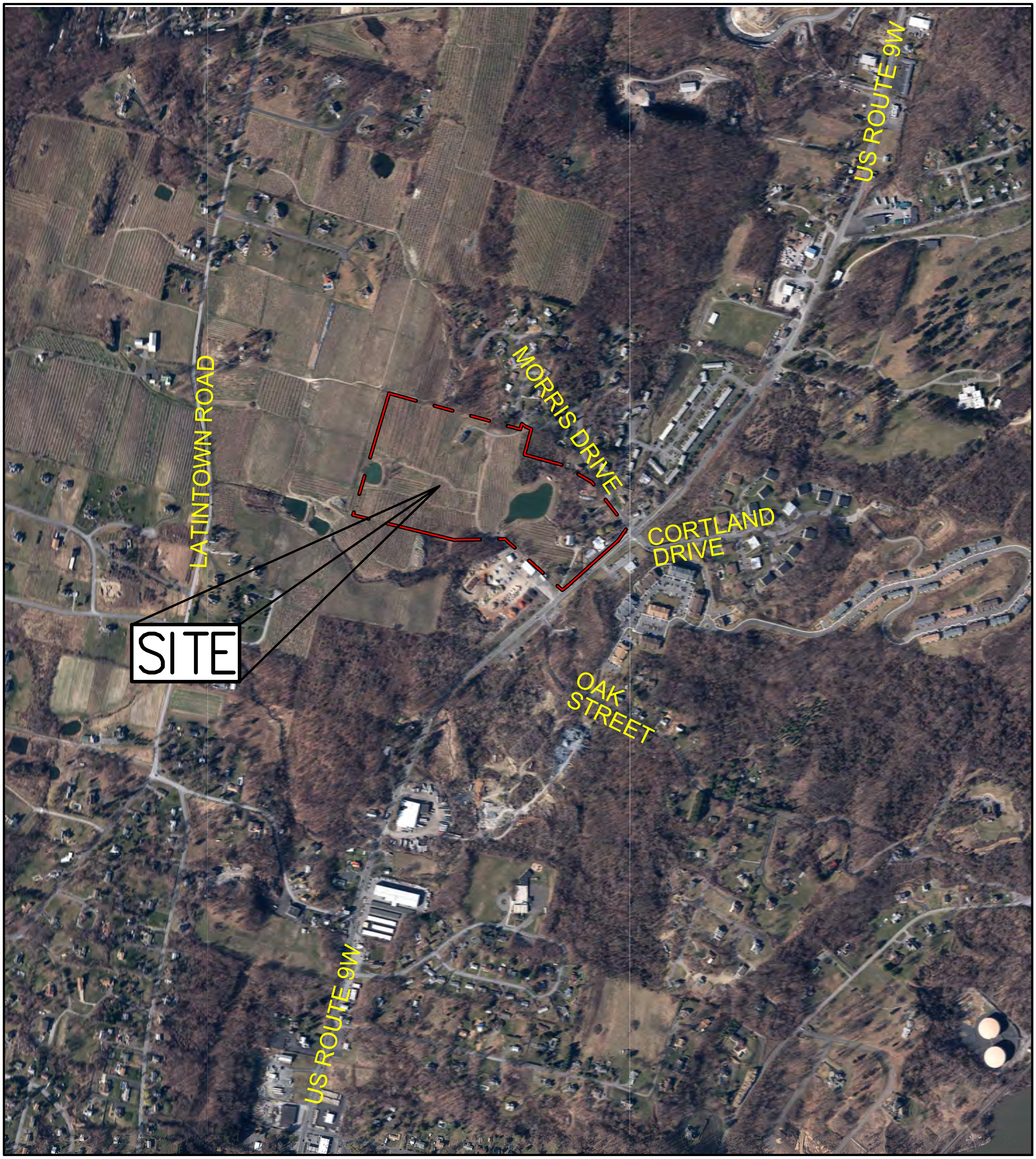
APPENDICES

REFERENCED DRAWINGS FOR SWPPP DESIGN AND DETAILS

JMC PLANS

Dwg. No.	Title
C-000	"Cover Sheet"
C-010	"Existing Conditions Plan"
C-011	"Lot Consolidation & Subdivision Plan"
C-020	"Environmental Constraints Plan"
C-100	"Layout Plan"
C-200	"Grading Plan"
C-300	"Utilities Plan"
C-310	"Storm Sewer Profiles"
C-311	"Storm Sewer Profiles"
C-320	"Sanitary Sewer Profiles"
C-330	"Water Main Profiles"
C-331	"Water Main Profiles"
C-400	"Erosion & Sediment Control Plan"
C-500	"Fire Truck Access Plan"
C-510	"Truck Routing Plan"
C-520	"Sight Distance Analysis Plan"
C-900	"Construction Details"
C-901	"Construction Details"
C-902	"Construction Details"
C-903	"Construction Details"
C-904	"Construction Details"
C-905	"Construction Details"
C-906	"Construction Details"
L-100	"Preliminary Landscape Plan"
L-101	"Preliminary Landscape Plan"
L-102	"Preliminary Typical Unit Landscape Plan"



OVERLOOK FARMS A FARRELL COMMUNITY

5417 ROUTE 9W | TOWN OF NEWBURGH, NEW YORK

SITE LOCATION MAP

DATE: 6/22/2021 | JMC PROJECT: 17088

FIGURE: SLM | SCALE: 1"=1,000'

120 BEDFORD RD
ARMONK
NY 10504

(914) 273-5225
fax 273-2102

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17088-AERIAL.dwg; SLM.tab

I. INTRODUCTION

This Stormwater Pollution Prevention Plan has been prepared for the 32.7 acre Overlook Ponds development, located in the Town of Newburgh, New York (hereinafter referred to as the "Site"). The site is bordered by Route 9W to the east, Morris Drive to the north and agricultural lands to the south and west. The development has been designed in accordance with the following:

- Requirements of the New York State Department of Environmental Conservation (NYSDEC) SPDES General Permit No. GP-0-20-001, effective January 29, 2020.
- Chapter 157 "Stormwater Management" of the Town of Newburgh Zoning Code

The applicant proposes to raze the existing buildings and construct 203 market-rate residential apartments. Out of the 203 total apartments, 23 units are proposed to be designated for senior market-rate housing. The applicant also proposes to construct a club house building, 25,000 square foot retail building and a sewage treatment facility to serve the development.

II. STORMWATER MANAGEMENT PLANNING

In order to be eligible for coverage under the NYSDEC SPDES General Permit No. GP-0-20-001 for Stormwater Discharges from Construction Activities, the Stormwater Pollution Prevention Plan (SWPPP) includes stormwater management practices (SMP's) from the publication "New York State Stormwater Management Design Manual," last revised January 2015.

A Stormwater Pollution Prevention Plan has been prepared for this project because it is a construction activity that involves:

- Soil disturbances of one (1) or more acres of land.

The proposed stormwater facilities have been designed such that the quantity and quality of stormwater runoff during and after construction are not adversely altered or are enhanced when compared to pre-development conditions.

Based on the GIS information provided by the website of the New York State Office of Parks, Recreation and Historic Places, the site does not contain, nor is it immediately adjacent to any properties listed on the State or National Register of Historic Places.

<u>The Six Step Process for Stormwater Site Planning and Practice Selection</u>

Stormwater management using green infrastructure is summarized in the six step process described below. The six step process was adhered to when developing this SWPPP. Information is provided in this SWPPP which documents compliance with the required process as follows:

<u>Step 1: Site Planning</u>

Implement planning practices that protect natural resources and utilize the hydrology of the site. Strong consideration must be given to reducing impervious cover to aid in the preservation of natural resources including protecting natural areas, avoiding sensitive areas and minimizing grading and soil disturbance.

<u>Step 2: Determine Water Quality Treatment Volume (WQv)</u>

Determine the required WQv for the site based on the site layout, impervious areas and sub-catchments. This initial calculation of WQv will have to be revised after green infrastructure techniques are applied. The following method has been used to calculate the WQv.

- **<u>90% Rule</u> -** According to the New York State Stormwater Design Manual, Section 4.1, the water quality volume is determined from the 90% rule. The method is based on 90% of the average annual stormwater runoff volume which must be provided due to impervious surfaces. The Water Quality Volume (denoted as the WQv) is designed to improve water quality sizing to capture and treat 90% of the average annual stormwater runoff volume. The WQv is directly related to the amount of impervious cover created at a site. The average rainfall storm depth for 90% of storms in New York State in one year is used to calculate a volume of runoff. The rainfall depth depends on the location of the site within the state. From this depth of rainfall, the required water quality volume is calculated.

Step 3: Runoff Reduction Volumes (RRv) by Applying Green Infrastructure Techniques and Standard SMP's

RRv is required for this project since it is a new development.

Green infrastructure techniques or standard SMP's with RRv capacity can potentially reduce the required WQv by incorporating combinations of green infrastructure techniques and standard SMP's within each drainage area on the site.

Green infrastructure techniques are grouped into two categories:

- Practices resulting in a reduction of contributing area such as preservation/restoration of conservation areas, vegetated channels, etc.
- Practices resulting in a reduction of contributing volume such as green roofs, stormwater planters, and rain gardens.

Apply a combination of green infrastructure techniques and standard SMPs with RRv capacity to provide 100% of the WQv calculated in Step 2. If the RRv calculated in this step is greater than or equal to the WQv in Step 2, the RRv requirement has been met and Step 4 can be skipped. If the RRv provided cannot meet or exceed 100% of the WQv, the project must, at a minimum, reduce a percentage of the runoff from impervious areas to be constructed on the site. The percent reduction is based on the Hydrologic Soil Group(s) (HSG) of the site and is defined as Specific Reduction Factor (S).

The following green infrastructure techniques and practices are provided in the Design Manual:

- **Standard Practices with RRv Capacity**
  - **Infiltration Practices –** Multiple infiltration basins are proposed to treat and retain runoff from the majority of the site.

The Minimum RRv capacity required must be provided by standard stormwater management practices or green infrastructure techniques to verify that the RRv requirement has been met. The RRv that is provided can then be subtracted from the Total Required WQv that must be provided by the SMP's.

<u>Step 4: Determine the minimum RRv Required</u>

The minimum RRv is calculated similar to the WQv. However, it is determined using only the new impervious cover and accounts for the hydrologic soil group present. In no case shall the runoff reduction achieved from the newly constructed impervious area be less than the minimum runoff reduction volume (RRv_{min}).

<u>Step 5: Apply Standard Stormwater Management Practices to Address Remaining Water Quality Volume</u>

Apply the standard SMP's to meet additional water quality volume requirements that cannot be addressed by applying the green infrastructure techniques. The standard SMP's with RRv capacity must be implemented to verify that the RRv requirement has been met.

- **Infiltration Practices –** Multiple infiltration basins and a underground infiltration system are proposed to treat and retain runoff from the site. This practice is located in an area where the existing grade is being slightly lowered and the groundwater elevation is acceptable to provide the required separation. According to Section 3.6 of the Design Manual, 90% of the WQv provided by an Infiltration Practice can be applied towards meeting the RRv criteria.

Step 6: Apply Volume and Peak Rate Control Practices to Meet Water Quantity Requirements

The Channel Protection Volume (CPv), Overbank Flood Control (Qp) and Extreme Flood Control (Qf) must be met for the plan to be completed. This is accomplished by using practices such as infiltration basins, dry detention basins, etc. to meet water quantity requirements. The following standards must be met:

1. **Stream Channel Protection (CPv)**

   Stream Channel Protection Volume Requirements (CPv) are designed to protect stream channels from erosion. In New York State this goal is accomplished by providing 24-hour extended detention of the one-year, 24-hour storm event, remained from runoff reduction. Reduction of runoff for meeting stream channel protection objectives, where site conditions allow, is encouraged and the volume reduction achieved through green infrastructure can be deducted from CPv. Trout waters may be exempted from the 24-hour ED requirement, with only 12 hours of extended detention required to meet this criterion. Detention time may be calculated using either a center of mass method or plug flow calculation method.
   W

   - CPv is not required because reduction of the entire CPv volume is achieved at a site through green infrastructure or infiltration systems.

2. **Overbank Flood (Qp) which is the 10 year storm.**

   Overbank control requires storage to attenuate the post development 10-year, 24-hour peak discharge rate (Qp) to predevelopment rates.

3. **Extreme Storm (Qf) which is the 100 year storm.**

   100 Year Control requires storage to attenuate the post development 100-year, 24-hour peak discharge rate (Qf) to predevelopment rates.

Based on the foregoing, this project is eligible for coverage under NYSDEC SPDES General Permit No. GP-0-15-002.

III. STUDY METHODOLOGY

Runoff rates were calculated based upon the standards set forth by the United States Department of Agriculture Natural Resources Conservation Service Technical Release 55, Urban Hydrology for Small Watersheds (TR-55), dated June 1986. The methodology set forth in TR-55 considers a multitude of characteristics for watershed areas including soil types, soil permeability, vegetative cover, time of concentration, topography, rainfall intensity, ponding areas, etc.

The 1, 10, and 100 year storm recurrence intervals were reviewed in the design of the stormwater management facilities (see Appendices A & B Existing/Proposed Hydrologic Calculations).

Anticipated drainage conditions were analyzed taking into account the rate of runoff which will result from the construction of buildings, parking areas and other impervious surfaces associated with the site development.

Base Data and Design Criteria

For the stormwater management analysis, the following base information and methodology were used:

1. The site drainage patterns and outfall facilities were reviewed by JMC personnel for the purpose of gathering background data and confirming existing mapping of the watershed areas.

2. An Existing Drainage Area Map was developed from the topographical survey. The drainage area map reflects the existing conditions within and around the project area.

3. A Proposed Drainage Area Map was developed from the proposed grading design superimposed over the topographical survey. The drainage area map reflects the proposed conditions within the project area and the existing conditions to remain in the surrounding area.

4. The United States Department of Agriculture (USDA) Web Soil Survey of the site available on its website at http://websoilsurvey.nrcd.usda.gov.

5. The United States Department of Agriculture Natural Resources Conservation Service National Engineering Handbook, Section 4 - Hydrology", dated March 1985.

6. The United States Department of Agriculture Natural Resources Conservation Service Technical Report No. 55, Urban Hydrology for Small Watersheds (TR-55), dated June 1986.

7. United States Department of Commerce Weather Bureau Technical Release No. 40 Rainfall Frequency Atlas of the United States.

The time of concentration was calculated using the methods described in Chapter 3 of TR-55, Second Edition, June 1986. Manning's kinematics wave equation was used to determine the travel time of sheet flow. The 2-year 24-hour precipitation amount of 3.15 inches was used in the equation for all storm events. The travel time for shallow concentrated flow was computed using Figure 3-1 and Table 3-1 of TR-55. Manning's Equation was used to determine the travel time for channel reaches.

8. All hydrologic calculations were performed with Bentley PondPack Connect Edition.

9. All hydraulic calculations were performed with the Civil 3D Storm Sewer Analysis**.**

10. The New York State Stormwater Management Design Manual, revised January 2015.

11. New York Standards and Specifications for Erosion and Sediment Control, November 2016.

12. The storm flows for the 1, 10, & 100 year recurrence interval storms were analyzed for the total watershed areas. The Type III distribution design storm for a 24-hour duration was used and the mass rainfall for each design storm was taken from the Extreme Precipitation in New York & New England developed by the Natural Resource Conservation Service (NRCS) and the Northeast Regional Climate Center (NRCC) as follows:

24 Hour Rainfall Amounts

Design Storm Recurrence Interval	Inches of Rainfall
1 Year	2.61
10 Year	4.65
100 Year	8.17

IV. EXISTING CONDITIONS

The existing conditions of the project site consist of an existing 32.07-acre apple orchard farm with a farmers market along route 9W. The offsite upstream watershed is approximately 180 acres and is comprised of cultivated agricultural/residential areas. Stormwater runoff from this watershed flows to an unnamed stream along Route 9W with final outfall to the Hudson River.

The following natural features, conservation areas, resource areas and drainage patterns of the project site have been identified and utilized to develop Drawing DA-1 "Existing Drainage Area Map" which is included in Appendix I:

- Wetlands (jurisdictional, wetland of special concern)
- Waterways (major, perennial, intermittent, springs)
- Buffers (stream, wetland, forest, etc.)
- Floodplains
- Forest, vegetative cover

- Critical areas
- Topography (contour lines, existing flow paths, steep slopes, etc.)
- Soil (hydrologic soil groups, highly erodible soils, etc.)
- Bedrock, significant geology features

Based on the USDA Web soil survey, all on-site soils are moderately drained and belong to hydrological groups A, B, and D. The soil types, boundaries and drainage areas/designations are depicted on Drawing DA-1 within Appendix I.

One Design Point and three separate flow junctions were identified for comparing peak rates of runoff in existing and proposed conditions. Similarly, five separate drainage areas were identified in existing conditions based on the existing drainage divides at the site. The numbers included in the name of each drainage area correspond to the Junction Point they drain towards.

The following is a description of each of the drainage areas analyzed in the existing conditions analysis:

Existing Drainage Area 1 (EDA-1A) is 8.72 acres in size and is located on the lower eastern portion of the property, adjacent Route 9W. This portion of the site is currently occupied by the Overlook Farmers Market comprised of the four retail building, a green house and offsite parking areas. The runoff from this area discharges into the existing stream that traverses the site. Stormwater runoff from this area drains through the existing stream channel in a northerly direction to Design Point #1.

The Curve Number (CN) and Time of Concentration (Tc) for this drainage area are 82 and 5 minutes, respectively.

Existing Drainage Area 2 (EDA-1B) is 35.08 acres in size and is located on the upper western portion of the site. This portion of the site consist of the existing apple orchard farm. The runoff from this area discharges to the east and is collected by a series of streams with discharge to an existing manmade pond currently used for irrigation. All discharge from the existing pond is controlled by an existing weir and identified as Junction Point 1D. The Pond discharge is routed into the existing lower stream with final discharge to Design Point 1.

The curve number (CN) and time of concentration (TC) for this drainage area are (81) and 18.4 minutes, respectively.

<u>Existing Drainage Area Offsite DA-1A</u> is 19.33 acres and is located upstream of the site, south of the Site and adjacent to Route 9W. This offsite area consists of agricultural lands and the Sand and Stone Landscape Yard business. Stormwater runoff from Offsite DA-1a is collected via overland to a series of manmade ditches and swales located along Route 9W to the existing stream entering the subject Site along the southern property line and identified as Junction 1A. The stream ultimately traverses the subject site to Design Point 1.
The curve number (CN) and time of concentration (TC) for this drainage area are (72) and 18.0 minutes, respectively.

<u>Existing Drainage Area Offsite DA-1B</u> is 94.62 acres and is located upstream of the site, west of the site and west Lattintown Road. This offsite area consists of agricultural lands. Stormwater runoff from Offsite DA-1B is collected thru a series of manmade ditches and swales to the existing stream entering the subject Site along the southern property line and identified as Junction 1B. The stream ultimately traverses the subject site to the existing Pond and ultimately to Design Point 1.
The curve number (CN) and time of concentration (TC) for this drainage area are (84) and 35.28 minutes, respectively.

<u>Existing Drainage Area Offsite DA-1C</u> is 54.32 acres and is located upstream of the site, east of Lattintown Road and north of the site. This offsite area consists of agricultural/residential lands. Stormwater runoff from Offsite DA-1C is collected thru a series of manmade ditches and swales to the existing stream entering the subject Site along the northern property line and identified as Junction 1C. The stream ultimately traverses the subject site to the existing Pond and ultimately to Design Point 1.
The curve number (CN) and time of concentration (TC) for this drainage area are (84) and 19.2

minutes, respectively. Refer to Drawing DA-1 in Appendix I.

The peak rates of runoff to the design point from the drainage areas for each storm are shown in the table below:

Table 1
Summary of Peak Rates of Runoff in Existing Conditions
(Cubic Feet per Second)

Storm Recurrence Interval	Design Point 1
1-year	136.60
10-year	361.90
25-year	498.80
100 year	779.46

V. PROPOSED CONDITIONS

The proposed improvements consist of the construction of 15 residential buildings with 203 apartment units, a proposed club house, 25,000 SF retail, a private sewage treatment facility associated sidewalks, parking, roadway and landscaped areas. The proposed on-site stormwater runoff from the impervious surface including building rooftops, driveway, parking areas and sidewalks will be collected and conveyed by drainage manholes and catch basins to a network of high density polyethylene (HDPE) drain pipe installed underground with discharge to a proposed stormwater infiltration basin. Catch basins are placed at strategic locations and the site is graded to direct runoff into these basins. As part of these improvements the applicant his proposing to reroute the existing stream and flood plain to be located along site perimeter and adjacent to Route 9W.

This section describes the design and analysis of the proposed conditions used to demonstrate that the SWPPP meets the requirements of the General Permit.

The Six Step Process For Stormwater Site Planning and Practice Selection

Step 1: Site Planning

The following practices and site features were incorporated in the site design:

- Preserving hydrology - Maintaining drainage divides
- Wetlands and buffers – The site includes 0.58 acres of wetlands. The project requires the disturbance of 0.3 acres of wetlands.
- Waterways (major, perennial, intermittent, springs) – The location, setback, cross section, etc. of the existing waterway has been maintained.
- Forest, vegetative cover – The maximum amount of forest and vegetative cover has been maintained and/or provided.
- Critical areas have been preserved.
- Topography (contour lines, existing flow paths, steep slopes, etc.) has been maintained or disturbed to the minimum extent practicable.
- Soil (hydrologic soil groups, highly erodible soils, etc.)
- Bedrock, significant geology features have been accounted for.

Step 2: Determine Water Quality Treatment Volume (WQv)

Step 3: Runoff Reduction Volumes (RRv) by Applying Green Infrastructure Techniques and Standard SMP's

Step 4: Determine the minimum RRv Required

Step 5: Apply Standard Stormwater Management Practices to Address Remaining Water Quality Volume

- **INFILTRATION SYSTEMS**

  Infiltration Basin (I-2)

  Description

  An infiltration practice that stores the water quality volume in a shallow depression, before it is infiltrated it into the ground.

Step 6: Apply Volume and Peak Rate Control Practices to Meet Water Quantity Requirements

- **INFILTRATION SYSTEMS**

  Infiltration Basin
  Subsurface Infiltration System

  Description

  An infiltration practice that stores the water quality volume in a shallow depression, before it is infiltrated it into the ground.

All practices exceed the required elements of SMP criteria as outlined in Chapter 6 of the NYS Stormwater Management Design Manual. A summary of each category is provided below.

1. Feasibility – Ponds are designed based upon unique physical environmental considerations noted in the NYS Stormwater Management Design Manual (NYSSMDM) Table 7.2 "Physical Feasibility Matrix".

2. Conveyance – The design conveys runoff to the designed pond in a manner that is safe, minimizes erosion and disruption to natural drainage channel and promotes filtering and infiltration.

3. Pretreatment – All pond provide pretreatment in accordance with NYSSMDM design guidelines.

4. Treatment Geometry – The plan provides water quality treatment in accordance with NYSSMDM guidelines noted Table 6.1 "Water Quality Volume Distributing in Pond Design".

5. Environmental/Landscaping –Extensive landscaping has been provided for each proposed practice to enhance pollutant removal and provide aesthetic enhancement to the property.

6. Maintenance – Maintenance for the environment practices has been provided and is detain the SWPPP Report as required. Maintenance access is provided in the design plans.

In order to determine the post-development rates of runoff generated on-site, the following drainage areas were analyzed in the post-development conditions. These areas are graphically depicted on Drawing DA-2 "Proposed Drainage Area Map" located in Appendix "H".

One Design Point and three separate flow junctions were identified for comparing peak rates of runoff in existing and proposed conditions. Similarly, nine separate drainage areas were identified in proposed conditions based on the proposed drainage divides at the site. The numbers included in the name of each drainage area correspond to the Design Point they drain towards.

The following is a description of each of the drainage areas analyzed in the proposed conditions analysis:

<u>Proposed Drainage Area 1A (PDA-1A)</u> is 3.34 acres in size and consist of the undetained developed landscape areas located along the northern perimeter of the site, adjacent to Morris

Drive and Route 9W. Within this area the applicant is proposing reroute the existing stream/floodway to be located adjacent to Route 9W to the site outfall Design Point 1.

The Curve Number (CN) and Time of Concentration (Tc) for this drainage area are 67 and 5 minutes, respectively.

<u>Proposed Drainage Area 1B (PDA-1B)</u> is 4.19 acres in size and represents the major portion of the proposed retail development of the site. This area consists of the proposed 25,000 retail building and Sewage Treatment Facility with associated sidewalks, driveways, roadways, parking areas and landscape areas. The stormwater runoff for the entire area is collected in swales, catch basins and manholes are conveyed in a system of storm drainage pipes to the proposed to the water quality structure Cascade Separator System CS-5. The CS-5 structure will pretreat the stormwater prior to discharging to the subsurface stormtech chamber detention/infiltration system. The Stomtech Chambers will consist of 72 units of the MC-3500 that detain and infiltrate1-year storm event and detain and partially infiltrate the 10 and 100 storm events. An infiltration rate of 20 inches/hr has been determined and based on the Carlin Simpson and Associates Geotech report provided in Appendix 'D' for infiltration rates as the proposed basin. An outlet structure is proposed for routing the stormwater runoff from the 1, 10 & 100 year storm events. The outlet structure consists of a 4 foot wide weir at elevation 206.40.

The Curve Number (CN) and Time of Concentration (Tc) for this drainage area are 93 and 5.0 minutes, respectively.

<u>Proposed Drainage Area 1C (PDA-1C)</u> is 1.11 acres in size and consists of the proposed clubhouse building , sidewalks, driveways, parking lot and landscape areas. The stormwater runoff for the entire area is collected in catch basins and manholes and conveyed in a system of storm drainage pipes to the proposed to the water quality structure Cascade Separator System CS-3. The CS-3 structure will pretreat the stormwater prior to discharging to proposed infiltration basin #1C. Stormwater runoff from PDA-1C is detained and infiltrated thru the bottom of the proposed infiltration basin. The stormwater runoff from the 1 year storm event stored and infiltrated within the stormwater basin. The 10- and 100-year storm events will be

detained and partially infiltrated. An infiltration rate of 20.00 inches/hr has been determined and based on the Carlin Simpson and Associates Geotech report provided in Appendix 'D' for infiltration rates as the proposed basin. An outlet structure is proposed for routing the stormwater runoff from the 1, 10 & 100 year storm events. The outlet structure will consists of 4 foot wide weir at elevation 212.45 and a top grate at elevation 213.05.

The Curve Number (CN) and Time of Concentration (Tc) for this drainage area are 91 and 5.0 minutes, respectively.

<u>Proposed Drainage Area 1D (PDA-1D)</u> is 5.76 acres in size and consists of the proposed residential buildings #3, 6, 10, 13, 14 and 15 with associated sidewalks, driveways, parking lot and landscape areas. The stormwater runoff for the entire area is collected in catch basins and manholes and conveyed in a system of storm drainage pipes to the proposed to the water quality structure Cascade Separator System CS-5. The CS-5 structure will pretreat the stormwater prior to discharging to proposed infiltration basin #1D. Stormwater runoff from PDA-1D is detained and infiltrated thru the bottom of the proposed infiltration basin. The stormwater runoff from the 1-year storm event stored and infiltrated within the stormwater basin. The 10- and 100-year storm events will be detained and partially infiltrated. An infiltration rate of 9.7 inches/hr has been determined and based on the Carlin Simpson and Associates Geotech report provided in Appendix 'D' for infiltration rates as the proposed basin. An outlet structure is proposed for routing the stormwater runoff from the 1, 10 & 100 year storm events. The outlet structure consists of 1.5 foot wide weir at elevation 215.80 and a top grate at elevation 219.00.

The Curve Number (CN) and Time of Concentration (Tc) for this drainage area are 86 and 5.0 minutes, respectively.

<u>Proposed Drainage Area 1E (PDA-1E)</u> is 5.76 acres in size and consists of the proposed residential buildings #1, 2, 4, 5, 7,9,10 and 11with associated sidewalks, driveways, parking lot and landscape areas. The stormwater runoff for the entire area is collected in catch basins and manholes and conveyed in a system of storm drainage pipes to the proposed to the water

quality structure Cascade Separator System CS-5. The CS-5 structure will pretreat the stormwater prior to discharging to proposed infiltration basin #1E. Stormwater runoff from PDA-1E is detained and infiltrated thru the bottom of the proposed infiltration basin. The stormwater runoff from the 1-year storm event stored and infiltrated within the stormwater basin. The 10- and 100-year storm events will be detained and partially infiltrated. An infiltration rate of 5.0 inches/hr has been determined and based on the Carlin Simpson and Associates Geotech report provided in Appendix 'D' for infiltration rates as the proposed basin. An outlet structure is proposed for routing the stormwater runoff from the 1, 10 & 100 year storm events. The outlet structure consists of 2.5 foot wide weir at elevation 239.90 and a top grate at elevation 243.00.

The Curve Number (CN) and Time of Concentration (Tc) for this drainage area are 84 and 5.0 minutes, respectively.

Proposed Drainage Area 1F (PDA-1F) is 20.90 acres in size and consist of the undetained developed landscape areas and existing pond located along the upper perimeter of the site.

The Curve Number (CN) and Time of Concentration (Tc) for this drainage area are 67 and 5 minutes, respectively.

Existing Drainage Area Offsite DA-1A is 19.33 acres and remains unchanged under proposed conditions. Stormwater runoff from Offsite DA-1a is collected via overland to a series of manmade ditches and swales located along Route 9W. At Junctions Point IA the offsite stormwater is collected with a proposed 24" storm pipe and routed to the proposed stream located in PDA-1A and ultimately Design Point 1.
The curve number (CN) and time of concentration (TC) for this drainage area are (72) and 18.0 minutes, respectively.

Existing Drainage Area Offsite DA-1B is 94.62 acres and remains unchanged under proposed conditions. Stormwater runoff from Offsite DA-1C is collected thru a series of manmade ditches and swales to the existing stream entering the subject Site along the southern property line and identified as Junction 1B. at this junction the applicant is proposing a 60" storm pipe to route the water to the existing Pond.

The curve number (CN) and time of concentration (TC) for this drainage area are (84) and 35.28 minutes, respectively.

Existing Drainage Area Offsite DA-1C is 54.32 acres and remains unchanged under proposed conditions. Stormwater runoff from Offsite DA-1C is collected thru a series of manmade ditches and swales to the existing stream entering the subject Site along the northern property line and identified as Junction 1C. The offsite flows will be collected with a 48" storm pipe to traverse the subject site to the existing Pond.

The curve number (CN) and time of concentration (TC) for this drainage area are (84) and 19.2 minutes, respectively.

Refer to Drawing DA-2 in Appendix I.

The peak rates of runoff to the design point of each of the analyzed drainage areas for each storm are shown on the table below:

Table 3
Summary of Proposed Peak Rates of Runoff in Proposed Conditions
(Cubic Feet per Second)

Storm Recurrence Interval	Design Point #1
1-year	119.79
10-year	343.32
25-year	483.41
100-year	765.25

The reductions in peak rates of runoff from proposed to existing conditions are shown on the table below:

Table 4
Percent Reductions in Peak Rates of Runoff (Existing vs. Proposed Conditions)
(Cubic Feet per Second)

	Storm Recurrence Frequency (Years)	Existing Peak Runoff Rate (cfs)	Proposed Peak Runoff Rate (cfs)	Percent Reduction (%)
Design Point #1	1-year	136.60	119.79	12.3
	10-year	361.90	343.32	5.1
	25-year	498.80	483.41	3.1
	100 year	779.46	765.25	1.8

As demonstrated in Table 4, the proposed stormwater improvements will result in significant reductions of peak rates of runoff for all storms and design point analyzed

The hydraulic calculations of the proposed drainage pipe conveyance system within the Storm Pipe Calculations in Appendix I. The Rational Method was used to demonstrate within a table and profile views that the 25-year flows can be accommodated without flooding for the onsite pipe network and a 100-year flow for the offsite runoff.

VI. SOIL EROSION & SEDIMENT CONTROL

A potential impact of the proposed development on any soils or slopes will be that of erosion and transport of sediment during construction. An Erosion and Sediment Control Management Program will be established for the proposed development, beginning at the start of construction and continuing throughout its course, as outlined in the "New York State Standards and Specifications for Erosion and Sediment Control," dated November 2015. A continuing maintenance program will be implemented for the control of sediment transport and erosion control after construction and throughout the useful life of the project.

The Operator shall have a qualified professional conduct an assessment of the site prior to the commencement of construction and certify that the appropriate erosion and sediment controls, as shown on the Sediment & Erosion Control Plans, have been adequately installed to ensure overall preparedness of the site for the commencement of construction. In addition, the

Operator shall have a qualified professional conduct one site inspection at least every seven calendar days and at least two site inspections every seven calendar days when greater than five acres of soil is disturbed at any one time.

Prior to the commencement of construction activity, the owner or operator must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting and maintaining the erosion and sediment control practices included in the SWPPP; and the contractor(s) and subcontractor(s) that will be responsible for constructing the post-construction stormwater management practices included in the SWPPP. The owner or operator shall have each of the contractors and subcontractors identify at least one person from their company that will be responsible for implementation of the SWPPP. This person shall be known as the trained contractor. The owner or operator shall ensure that at least one trained contractor is on site on a daily basis when soil disturbance activities are being performed.
The owner or operator shall have each of the contractors and subcontractors identified above sign a copy of the certification statement provided in Appendix F before they commence any construction activity.

<u>Soil Description</u>

As provided by the United States Department of Agriculture, Soil Conservation Service "Web Soil Survey," soil classifications which exist on the subject site are described below.

Soils are placed into four hydrologic groups: A, B, C, and D. In the definitions of the classes, infiltration rate is the rate at which water enters the soil at the surface and is controlled by the surface conditions. Transmission rate is the rate at which water moves in the soil and is controlled by soil properties. Definitions of the classes are as follows:

A. (Low runoff potential). The soils have a high infiltration rate even when thoroughly wetted. They chiefly consist of deep, well drained to excessively drained sands or gravels. They have a high rate of water transmission.

B. The soils have a moderate infiltration rate when thoroughly wetted. They chiefly are moderately deep to deep, moderately well drained to well drained soils that have moderately fine to moderately coarse textures. They have a moderate rate of water transmission.

C. The soils have a slow infiltration rate when thoroughly wetted. They chiefly have a layer that impedes downward movement of water or have moderately fine to fine texture. They have a slow rate of water transmission.

D. (High runoff potential). The soils have a very slow infiltration rate when thoroughly wetted. They chiefly consist of clay soils that have a high swelling potential, soils that have a permanent high water table, soils that have a claypan or clay layer at or near the surface, and shallow soils over nearly impervious material. They have a very slow rate of water transmission.

A soil's tendency to erode is also described in the USDA web soil survey. The ratings in this interpretation indicate the hazard of soil loss from unsurfaced areas. The ratings are based on soil erosion factor K, slope, and content of rock fragments. The hazard is described as "slight," "moderate," or "SEVERE." A rating of "slight" indicates that little or no erosion is likely; "moderate" indicates that some erosion is likely, that the temporarily unsurfaced / unstabilized during construction may require occasional maintenance, and that simple erosion-control measures are needed; and "SEVERE" indicates that significant erosion is expected, that the roads or trails require frequent maintenance, and that erosion-control measures are needed.

Per the Soil Survey, the following soils listed below are present at the site. Following this list is a detailed description of each soil type found on the property:

SYM.	HYDRO. SOIL GROUP	DESCRIPTION
BnB	**C**	**Bath-Nassau Channery silt loams, 3% to 8% slopes**
BnB	**C**	**Bath-Nassau Channery silt loams, 8% to 15% slopes**
UH	**A**	**Udorthents, Smoothed**
ESB	**D**	**Erie extremely stony soils, gently sloping**
MdB	**D**	**Mardin gravely silt loam, 3% to 8% slopes**
MdC	**D**	**Mardin gravely silt loam, 8% to 15% slopes**
RSD	**D**	**Rock Outcrop-Nassau Coplex, Mardin hilly**
NAD	**D**	**Nassau Channery silt loams, 15% to 25% slopes**
ErB	**D**	**Erie gravely silt loam, 3% to 8% slopes**

On-Site Pollution Prevention

There are temporary pollution prevention measures used to control litter and construction debris on site, such as:

- Temporary Riser and Anti-Vortex Device
- Silt Fence
- Silt Sack
- Stone Check Dam
- Water Bars
- Excavated Drop Inlet Protection
- Stone & Block Drop Inlet Protection

There will be inlet protection provided for all storm drains and inlets with the use of excavated drop inlet protection and stone & block drop inlet protection, which keep silt, sediment and construction litter and debris out of the on-site stormwater drainage system.

Temporary Control Measures

Temporary control measures and facilities will include silt fences, interceptor swales, stabilized construction entrances, temporary seeding, mulching and sediment basins with temporary riser and anti-vortex devices.

Throughout the construction of the proposed development, temporary control facilities will be implemented to control on-site erosion and sediment transfer. Interceptor swales will be used to direct stormwater runoff to temporary sediment basins for settlement. The sediment basins will remove sediment and pollutants from the stormwater runoff produced during construction. Descriptions of the temporary erosion & sediment controls that will be used during the development of the site including silt fence, stabilized construction access, seeding, mulching and inlet protection are as follows:

1. Silt Fence is constructed using a geotextile fabric. The fence will be either 18 inches or 30 inches high. The height of the fence can be increased in the event of placing these devices on uncompacted fills or extremely loose undisturbed soils. The fences will not be placed in areas which receive concentrated flows such as ditches, swales and channels nor will the filter fabric material be placed across the entrance to pipes, culverts, spillway structures, sediment traps or basins.

2. Stabilized Construction Access consists of AASHTO No. 1 rock. The rock access will be a minimum of 50 feet in length by 20 feet in width by 8 inches in depth.

3. Seeding will be used to create a vegetative surface to stabilize disturbed earth until at least 70% of the disturbed area has a perennial vegetative cover. This amount is required to adequately function as a sediment and erosion control facility. Grass lining will also be used to line temporary channels and the surrounding disturbed areas.

4. Mulching is used as an anchor for seeding and disturbed areas to reduce soil loss due to storm events. These areas will be mulched with straw at a rate of 3 tons per acre such that the mulch forms a continuous blanket. Mulch must be placed after seeding or within 48 hours after seeding is completed.

5. Inlet Protection will be provided for all stormwater basins and inlets with the use of curb & gutter inlet protection and stone & block inlet protection structures, which will keep silt,

sediment and construction debris out of the storm system. Existing structures within existing paved areas will be protected using “Silt Sacks” inside the structures.

6. Erosion Control Matting will be utilized on slopes and within swales, where applicable, to provide stabilization in advance of vegetation being established. Such matting will be biodegradable to facilitate long term growth of vegetation in swales, on slopes and within stormwater management facilities.

7. Temporary Sediment Basins will be constructed to intercept sediment laden runoff and trap and retain the sediment. The sediment basins are sized to provide a sediment storage volume of 3,600 cubic feet per acre draining to the basin. The Sediment Basins will be used until their contributing drainage areas are stabilized. .

8. Temporary Riser and Anti-Vortex Devices are placed at the bottom of the temporary sediment basins where they intercept and collect debris and litter from the pond before they can enter the off-site storm drainage system.

The contractor shall be responsible for maintaining the temporary sediment and erosion control measures throughout construction. This maintenance will include, but not be limited to, the following tasks:

1. For dust control purposes, moisten all exposed graded areas with water at least twice a day in those areas where soil is exposed and cannot be planted with a temporary cover due to construction operations or the season (December through March).

2. Inspection of erosion and sediment control measures shall be performed at the end of each construction day and immediately following each rainfall event. All required repairs shall be immediately executed by the contractor.

3. Sediment deposits shall be removed when they reach approximately ⅓ the height of the silt fence. All such sediment shall be properly disposed of in fill areas on the site, as directed by the Owner’s Field Representative. Fill shall be protected following disposal with mulch,

temporary and/or permanent vegetation and be completely circumscribed on the downhill side by silt fence.

4. Rake all exposed areas parallel to the slope during earthwork operations.

5. Following final grading, the disturbed area shall be stabilized with a permanent surface treatment (i.e. turf grass, pavement or sidewalk). During rough grading, areas which are not to be disturbed for fourteen or more days shall be stabilized with the temporary seed mixture, as defined on the plans. Seed all piles of dirt in exposed soil areas that will not receive a permanent surface treatment.

<u>Concrete Material and Equipment Management</u>

Concrete washouts shall be used to contain concrete and liquids when the chutes of concrete mixers and hoppers of concrete pumps are rinsed out after delivery. The washout facilities consolidate solid for easier disposal and prevent runoff of liquids. The wash water is alkaline and contains high levels of chromium, which can leach into the ground and contaminate groundwater. It can also migrate to a storm drain, which can increase the pH of area waters and harm aquatic life. Solids that are improperly disposed of can clog storm drain pipes and cause flooding. Installing concrete washout facilities not only prevents pollution but also is a matter of good housekeeping at your construction site.

Prefabricated concrete washout containers can be delivered to the site to provide maintenance and disposal of materials. Regular pick-ups of solid and liquid waste materials will be necessary. To prevent leaks on the job site, ensure that prefabricated washout containers are watertight. A self installed concrete washout facility can be utilized although they are much less reliable than prefabricated containers and are prone to leaks. There are many design options for the washout, but they are preferably built below-grade to prevent breaches and reduce the likelihood of runoff. Above-grade structures can also be used if they are sized and constructed correctly and are diligently maintained. One of the most common problems with self-installed concrete washout facilities is that they can leak or be breached as a result of constant use, therefore the contractor shall be sure to use quality materials and inspect the facilities on a daily basis.

Washouts must be sized to handle solids, wash water, and rainfall to prevent overflow. Concrete Washout Systems, Inc. estimates that seven gallons of wash water are used to wash one truck chute and 50 gallons are used to wash out the hopper of a concrete pump truck.

For larger sites, a below-grade washout should be at least 10 feet wide and sized to contain all liquid and solid waste expected to be generated in between cleanout periods. A minimum of 12-inches of freeboard must be provided. The pit must be lined with plastic sheeting of at least 10-mil thickness without holes or tears to prevent leaching of liquids into the ground. Concrete wash water should never be placed in a pit that is connected to the storm drain system or that drains to nearby waterways.

An above-grade washout can be constructed at least 10 feet wide by 10 feet long and sized to contain all liquid and solid waste expected to be generated in between cleanout periods. A minimum of 4-inches of freeboard must be provided. The washout structures can be constructed with staked straw bales or sandbags double-or triple lined with plastic sheeting of at least 10-mil thickness without holes or tears.

Concrete washout facilities shall not be located within 50 feet of storm drains, open ditches, or water bodies and should be placed in locations that allow for convenient access for concrete trucks. The contractor shall check all concrete washout facilities daily to determine if they have been filled to 75 percent capacity, which is when materials need to be removed. Both above-and below-ground self-installed washouts should be inspected daily to ensure that plastic linings are intact and sidewalls have not been damaged by construction activities. Prefabricated washout containers should be inspected daily as well as to ensure the container is not leaking or nearing 75 percent capacity. Inspectors should also note whether the facilities are being used regularly. Additional signage for washouts may be needed in more convenient locations if concrete truck operators are not utilizing them.

The washout structures must be drained or covered prior to predicted rainstorms to prevent overflows. Hardened solids either whole or broken must be removed and then they may be reused onsite or hauled away for recycling.

Once materials are removed from the concrete washout, a new structure must be built or excavated, or if the previous structure is still intact, inspect it for signs of weakening or damage and make any necessary repairs. Line the structure with new plastic that is free of holes or tears and replace signage if necessary. It is very important that new plastic be used after every cleaning because pumps and concrete removal equipment can damage the existing liner.

<u>Construction Site Chemical Control</u>

The purpose of this management measure is to prevent the generation of nonpoint source pollution from construction sites due to improper handling and usage of nutrients and toxic substances, and to prevent the movement of toxic substances from the construction site.

Many potential pollutants other than sediment are associated with construction activities. These pollutants include pesticides; fertilizers used for vegetative stabilization; petrochemicals; construction chemicals such as concrete products, sealers, and paints; wash water associated with these products; paper; wood; garbage; and sanitary waste.

Disposal of excess pesticides and pesticide-related wastes should conform to registered label directions for the disposal and storage of pesticides and pesticide containers set forth in applicable Federal, State and local regulations that govern their usage, handling, storage, and disposal.

Pesticides should be disposed of through either a licensed waste management firm or a treatment, storage and disposal (TSD) facility. Containers should be triple-rinsed before disposal, and rinse waters should be reused as product.

Other practices include setting aside a locked storage area, tightly closing lids, storing in a cool, dry place, checking containers periodically for leaks or deterioration, maintaining a list of products in storage, using plastic sheeting to line the storage areas, and notifying neighboring property owners prior to spraying.

When storing petroleum products, follow these guidelines:

- Create a shelter around the area with cover and wind protection;
- Line the storage area with a double layer of plastic sheeting or similar material;
- Create an impervious berm around the perimeter with a capacity of 110 percent greater than that of the largest container;
- Clearly label all products;
- Keep tanks off the ground; and
- Keep lids securely fastened.

Post spill procedure information and have persons trained in spill handling on site or on call at all times. Materials for cleaning up spills should be kept on site and easily available. Spills should be cleaned up immediately and the contaminated material properly disposed of. Maintain and wash equipment and machinery in confined areas specifically designed to control runoff.

Thinners or solvents should not be discharged into sanitary or storm systems when cleaning machinery. Use alternative methods for cleaning larger equipment parts, such as high-pressure, high-temperature water washes, or steam cleaning. Equipment-washing detergents can be used, and wash water may be discharged into sanitary sewers if solids are removed from the solution first. (This practice should be verified with the local sewer authority.) Small parts can be cleaned with degreasing solvents, which can then be reused or recycled.

Solid Waste Management and Portable Sanitary Management

The purpose of this management measure is to prevent the potential for solid waste such as construction debris, trash, etc. from construction sites due to improper handling and storage.

Debris and litter should be removed periodically from the BMP's and surrounding areas to prevent clogging of pipes and structures. All construction material shall be stored in designated staging areas. Roll-off containers shall be placed on site and all empty containers, construction debris and litter shall be placed in the containers.

Portable sanitary units may be utilized on-site or bathrooms will be provided within construction trailers. A sanitation removal company will be hired to pump/remove any sanitary waste. In the event that portable sanitary units are used and then cleaned after being emptied, the rinse water may not be disposed of to the storm drain system. It shall be contained for later disposal if it can't be disposed of on-site. Remove paper and trash before cleaning the portable sanitary units. The portable sanitary units shall be located away from the storm drain system if possible. Provide over head cover for wash areas if possible. Maintain spill response material and equipment on site to eliminate the potential for contaminants and wash water from entering the storm drain system.

<u>Permanent Control Measures and Facilities for Long Term Protection</u>

Towards the completion of construction, permanent sediment and erosion control measures will be developed for long term erosion protection. The following permanent control measures and facilities have been proposed to be implemented for the project:

1. <u>Infiltration Basins</u> will be used to treat the runoff volume generated from the developed area and provide improvement to water quality control. The proposed basins will provide water quality for 90% of the average annual stormwater runoff volume. The water quality volume will be retained and higher storms will be released gradually. Refer to the Proposed Hydrologic Calculations and Runoff Reduction and Water Quality Volume Sizing Calculations, in Appendix C

2. <u>Underground Infiltration System</u> which is a standard SMP that will be used to treat the runoff volume generated from a portion of the developed area and provide additional water quality and runoff volume reduction. The smaller storms will be retained and the higher storms will

be released gradually. Refer to the Proposed Hydrologic Calculations and Runoff Reduction and Water Quality Volume Sizing Calculations, in Appendix C.

The StormTech MC-3500 Recharge Chambers are domed shaped fully opened bottom corrugated chambers with perforated side walls. Chambers allow stormwater to be stored within the dome void until it can infiltrate into the ground. They are able to be used for residential, commercial or industrial applications and provide an easy way to treat and dispose of stormwater runoff underground. Water is infiltrated into the ground through the chambers and surrounding crushed stone and will replenish the groundwater as a natural condition.

3. Catch Basins will be used to remove some of the coarse sand and grit sediment before entering the drainage system. Each catch basin will be constructed with an 18 inch deep sump.

4. Rip-Rap Energy Dissipators At discharge points from the stormwater drainage system into the stormwater management basins, rip-rap pads consisting of angular rocks will be placed to dissipate velocity and reduce the risk of erosion. The rip-rap pads will be 10 feet wide by 10 feet long.

5. Seeding of at least 70% perennial vegetative cover will be used to produce a permanent uniform erosion resistant surface. The seeded areas will be mulched with straw at a rate of 2 tons per acre such that the mulch forms a continuous blanket.

Specifications for Soil Restoration

Prior to the final stabilization of the disturbed areas, soil restoration will be required for all vegetated areas to recover the original properties and porosity of the soil. Soil Restoration Requirements are provided on Table 7 below:

Table 7

Soil Restoration Requirements

<table>
<tr><th>Type of Soil Disturbance</th><th colspan="2">Soil Restoration Requirement</th><th>Comments/Examples</th></tr>
<tr><td>No soil disturbance</td><td colspan="2">Restoration not permitted</td><td>Preservation of Natural Features</td></tr>
<tr><td>Minimal soil disturbance</td><td colspan="2">Restoration not required</td><td>Clearing and grubbing</td></tr>
<tr><td rowspan="2">Areas where topsoil is stripped only – no change in grade</td><td>HSG A&B</td><td>HSG C&D</td><td rowspan="2">Protect area from any ongoing construction activities</td></tr>
<tr><td>apply 6 inches of topsoil</td><td>Aerate* and apply 6 inches of topsoil</td></tr>
<tr><td rowspan="2">Areas of cut or fill</td><td>HSG A&B</td><td>HSG C&D</td><td rowspan="2">Clearing and grubbing</td></tr>
<tr><td>Aerate and apply 6 inches of topsoil</td><td>Apply full Soil Restoration**</td></tr>
<tr><td>Heavy traffic areas on site (especially) in a zone 5-25 feet around buildings but not within a 5 foot perimeter around foundation walls)</td><td colspan="2">Apply full Soil Restoration (decompaction and compost enhancement)</td><td></td></tr>
<tr><td>Areas where Runoff Reduction and/or Infiltration practices are applied</td><td colspan="2">Restoration not required, but may be applied to enhance the reduction specified for appropriate practices.</td><td>Keep construction equipment from crossing these areas. To protect newly installed practice from any ongoing construction activities construct a single phase operation fence area.</td></tr>
<tr><td>Redevelopment projects</td><td colspan="2">Soil Restoration is required on redevelopment projects in areas where existing impervious area will be converted to pervious area.</td><td></td></tr>
</table>

* Aeration includes the use of machines such as tractor-drawn implements with coulters making a narrow slit in the soil, a roller with many spikes making indentations in the soil, or prongs which function like a mini-subsoiler.

** Per "Deep Ripping and De-compaction, DEC 2008."

During periods of relatively low to moderate subsoil moisture, the disturbed subsoils are returned to rough grade and the following full soil restoration steps applied:

1. Apply 3 inches of compost over subsoil.

2. Till compost into subsoil to a depth of at least 12 inches using a cat-mounted ripper, tractor-mounted disc, or tiller, mixing, and circulating air and compost into subsoils.

3. Rock-pick until uplifted stone/rock materials of four inches and larger size are cleaned off the site.

<u>Specifications for Final Stabilization of Graded Areas</u>

Final stabilization of graded areas consists of the placement of topsoil and installation of landscaping (unless the area is to be paved, or a building is to be constructed in the location). Topsoil is to be spread as soon as grading operations are completed. Topsoil is to be placed to a minimum depth of six inches on all embankments, planting areas and seeding/sod areas. The subgrade is to be scarified to a depth of two inches to provide a bond of the topsoil with the subsoil. Topsoil is to be raked to an even surface and cleared of all debris, roots, stones and other unsatisfactory material.

Planting operations shall be conducted under favorable weather conditions as follows:

- Permanent Lawns - April 15 (provided soil is frost-free and not excessively moist) to May 15; August 15 to October 15.
- Temporary Lawn Seeding - if outside of the time periods noted above, the areas shall be seeded immediately on completion of topsoil operations with annual ryegrass (Italian rye) at a rate of six pounds per 1,000 square feet. Temporary lawn installation is permitted provided the soil is frost-free and not excessively moist. The permanent lawn is to be installed the next planting season.

On slopes with a grade of 3 horizontal to 1 vertical or greater, and in swales, a geotextile netting or mat shall be installed for stabilization purposes as shown on the Plans. Seeded areas are to be mulched with straw or hay at an application rate of 70-90 pounds per 1,000 s.f. Straw or hay mulch must be spread uniformly and anchored immediately after spreading to prevent wind blowing. Mulches must be inspected periodically and in particular after rainstorms to check for erosion. If erosion is observed, additional mulch must be applied. Netting shall be inspected after rainstorms for dislocation or failure; any damage shall be repaired immediately.

All denuded surfaces which will be exposed for a period of over two months or more shall be temporarily hydroseeded with (a) perennial ryegrass at a rate of 40 lbs per acre (1.0 lb per 1000 square feet); (b) Certified "Aroostook" winter rye (cereal rye) @ 100 lb per acre (2.5 lb/1000 s.f.) to be used in the months of October and November.

Permanent turfgrass cover is to consist of a seed mixture as follows:

(a) <u>Sunny sites</u>

Kentucky Bluegrass	2.0-2.6 pounds/1000 square feet
Perennial Ryegrass	0.6-0.7 pounds/1000 square feet
Fine Fescue	0.4-0.6 pounds/1000 square feet

(b) <u>Shady sites</u>

Kentucky Bluegrass	0.8-1.0 pounds/1000 square feet
Perennial Ryegrass	0.6-0.7 pounds/1000 square feet
Fine Fescue	2.6-3.3 pounds/1000 square feet

All plant materials shall comply with the standards of the American Association Of Nurserymen with respect to height and caliper as described in its publication American Standard for Nursery Stock, latest edition.

VII. CONSTRUCTION PHASE AND POST-CONSTRUCTION MAINTENANCE

During the construction phase and following construction of the project, a number of maintenance measures will be taken with respect to the site maintenance. Measures to be taken included the following:

1. During Construction

A comprehensive sediment and erosion control plan will be in place during the construction period. Maintenance measures for sediment and erosion controls will include:

A qualified professional acceptable to the municipality will be hired by the owner or operator to monitor the installation and maintenance of the sediment and erosion control plans. The qualified professional shall report directly to the Engineering Consultant and shall be responsible for ensuring compliance with the design of the sediment and erosion control plans.

The qualified professional so hired will inspect all sediment and erosion control measures at least every seven calendar days. In the event that there has been a variance with the design of the sediment and erosion control measures so that the ability of the measures to adequately perform the intended function is lessened or compromised and/or the facilities are not adequately maintained, the qualified professional shall be required to report such variance to the Engineering Consultant within 48 hours and shall be empowered to order immediate repairs to the sediment and erosion control measures.

The qualified professional will also be responsible for observing the adequacy of the vegetation growth (trees, shrubs, groundcovers and turfgrasses) in newly graded areas and for ordering additional plantings in the event that the established plant materials do not adequately protect the ground surface from erosion.

2. Following Construction

Site maintenance activities on the property will include:

- Grounds maintenance, including mowing of lawns;
- Planting of trees, shrubs and groundcovers; pruning of trees and shrubs;
- Application of fertilizer and herbicides;
- Maintenance of stormwater management area;

Grounds maintenance on the site will be performed by landscaping contractor.

Fertilizer is typically applied twice in the year - once in the spring and once in the fall. The application of fertilizer is usually necessary to maintain healthy lawn growth due to competition for nutrients with trees and shrubs and since the clippings are often removed. It is not recommended that fertilizer be applied during the summer. It is at this time that lawns are typically dormant.

Fertilizers come in three basic types: (1) Organic; (2) Soluble synthetic and (3) Slow release.

Organic fertilizers are derived from plant or animal waste. Since they are heavier and bulkier than other fertilizers, it is necessary to apply a much greater amount at one time. Soluble synthetic fertilizers are predictable with determining the exact impact on a lawn. However more applications are necessary since their effect is often short term. Slow release fertilizers have a high percentage of nitrogen so quantities that need be handled at one time are smaller. Slow release fertilizers will be utilized by the project.

A complete fertilizer contains all three of the primary nutrients - nitrogen (N), phosphorus (P) and potassium in the form of potash (K). Typically, a 3-1-2 ratio of nutrients (N-P-K) is used for lawn applications.

Fertilizer shall be applied by the landscape contractor in accordance with the manufacturer's instructions. The application of fertilizer does require some skill on the part of the operator. Should there be a spill of fertilizer, the landscape contractor shall be required to scrape or vacuum it up. The area will then be watered in accordance with the manufacturer's instructions to ensure that the fertilizer becomes soluble and available to plants and does not run off.

Farrell Communities at Overlook Ponds LLC will be responsible for the long-term operation and maintenance of the permanent stormwater management practices. The permanent stormwater management practices shall be maintained in accordance with the Maintenance Inspection Checklists provided in Appendix E.

VIII. CONCLUSION

This Stormwater Pollution Prevention Plan has been prepared to describe the project's pre and post-development stormwater management improvements and its sediment and erosion control improvements to be utilized during construction. The proposed permanent improvements and the interim improvements to be utilized during construction have been designed in accordance with the requirements of the:

- New York State Department of Environmental Conservation (NYSDEC) SPDES General Permit No. GP-0-15-002, effective January 29, 2015.
- Chapter 157 "Stormwater Management" of the Town of Newburgh Zoning Code.
- New York State Stormwater Management Design Manual.

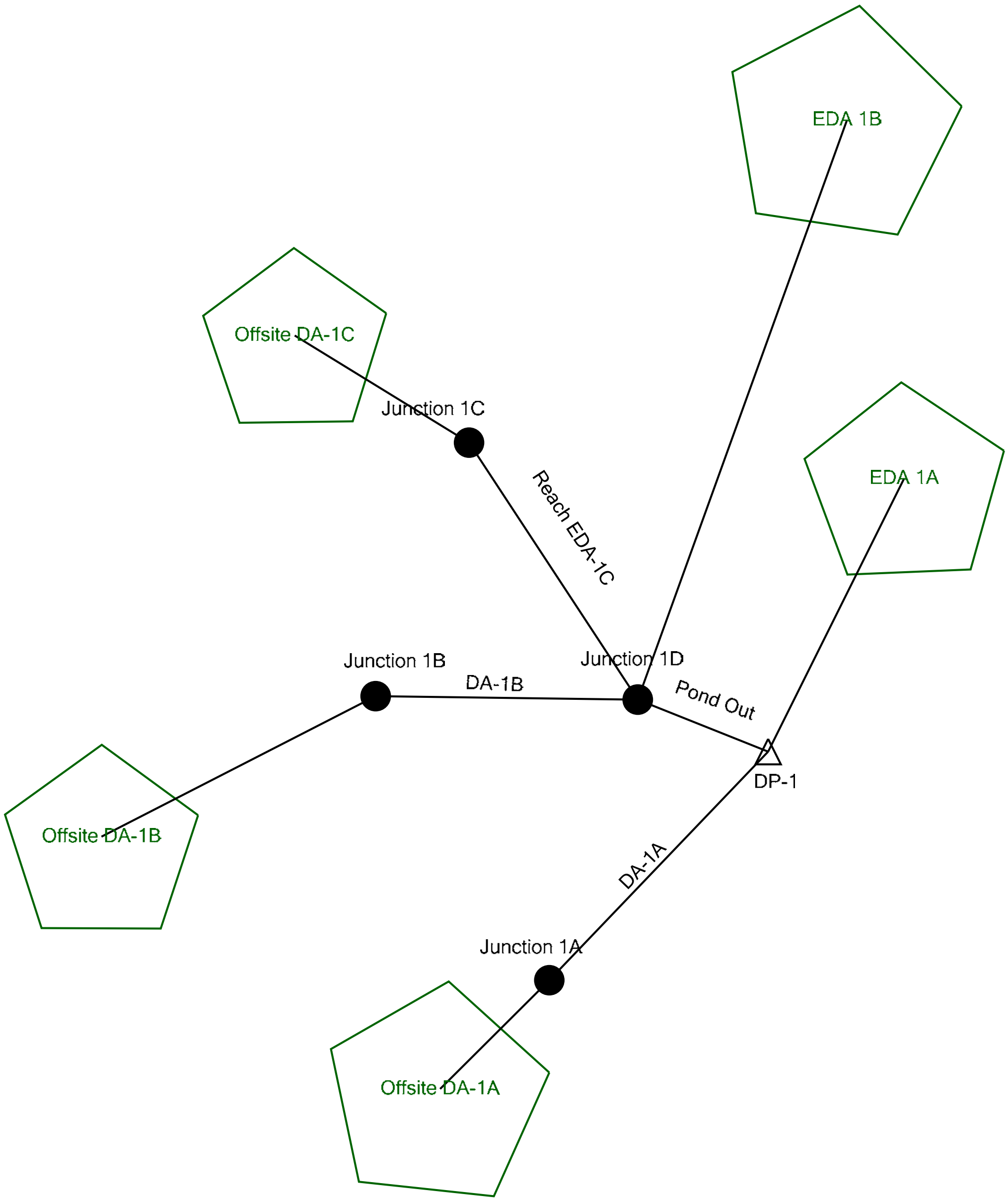
The project employs a variety of practices to enhance stormwater quality and reduce peak rates of runoff associated with the proposed improvements. These measures include a multiple infiltration systems. These improvements will also mitigate runoff volumes from the proposed improvements as runoff volumes will be slightly reduced or maintained in all the analyzed storms.

Based on the foregoing, it is our professional opinion that the proposed improvements will provide water quantity and quality enhancements which exceed the above mentioned requirements and are not anticipated to have any adverse impacts to the site or any surrounding areas.

APPENDIX A

EXISTING HYDROLOGIC CALCULATIONS

Scenario: Pre-Development 1 year



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Existing Hydrologic Calculations Report

Project Summary	
Title	Stormwater Hydrologic Calculations
Engineer	
Company	JMC
Date	5/26/2021

Notes

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
Offsite DA-1B	Pre-Development 1 year	1	367,989.000	12.450	60.63
Offsite DA-1B	Pre-Development 2 year	2	510,925.000	12.400	85.27
Offsite DA-1B	Pre-Development 10 year	10	944,869.000	12.400	158.98
Offsite DA-1B	Pre-Development 25 year	25	1,305,069.000	12.400	218.63
Offsite DA-1B	Pre-Development 100 year	100	2,057,003.000	12.400	339.79
Offsite DA-1C	Pre-Development 1 year	1	236,139.000	12.250	50.32
Offsite DA-1C	Pre-Development 2 year	2	322,387.000	12.250	69.05
Offsite DA-1C	Pre-Development 10 year	10	580,324.000	12.250	123.56
Offsite DA-1C	Pre-Development 25 year	25	792,067.000	12.200	167.16
Offsite DA-1C	Pre-Development 100 year	100	1,230,839.000	12.200	255.86
EDA 1A	Pre-Development 1 year	1	34,143.000	12.100	9.76
EDA 1A	Pre-Development 2 year	2	47,384.000	12.100	13.59
EDA 1A	Pre-Development 10 year	10	87,570.000	12.100	24.88
EDA 1A	Pre-Development 25 year	25	120,917.000	12.100	33.93
EDA 1A	Pre-Development 100 year	100	190,516.000	12.100	52.20
EDA 1B	Pre-Development 1 year	1	129,592.000	12.250	27.66
EDA 1B	Pre-Development 2 year	2	181,433.000	12.250	39.20
EDA 1B	Pre-Development 10 year	10	340,001.000	12.200	74.26
EDA 1B	Pre-Development 25 year	25	472,355.000	12.200	102.95

Existing Hydrologic Calculations Report

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
EDA 1B	Pre-Development 100 year	100	749,688.000	12.200	161.45
Offsite DA-1A	Pre-Development 1 year	1	40,968.000	12.250	7.75
Offsite DA-1A	Pre-Development 2 year	2	62,784.000	12.250	12.79
Offsite DA-1A	Pre-Development 10 year	10	135,054.000	12.250	29.18
Offsite DA-1A	Pre-Development 25 year	25	199,059.000	12.200	43.61
Offsite DA-1A	Pre-Development 100 year	100	338,842.000	12.200	74.74

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DP-1	Pre-Development 1 year	1	807,381.000	12.350	136.60
DP-1	Pre-Development 2 year	2	1,123,070.000	12.350	193.18
DP-1	Pre-Development 10 year	10	2,084,909.000	12.350	361.90
DP-1	Pre-Development 25 year	25	2,885,831.000	12.350	498.80
DP-1	Pre-Development 100 year	100	4,561,802.000	12.350	779.46
Junction 1B	Pre-Development 1 year	1	367,989.000	12.450	60.63
Junction 1B	Pre-Development 2 year	2	510,925.000	12.400	85.27
Junction 1B	Pre-Development 10 year	10	944,869.000	12.400	158.98
Junction 1B	Pre-Development 25 year	25	1,305,069.000	12.400	218.63
Junction 1B	Pre-Development 100 year	100	2,057,003.000	12.400	339.79
Junction 1C	Pre-Development 1 year	1	236,139.000	12.250	50.32
Junction 1C	Pre-Development 2 year	2	322,387.000	12.250	69.05
Junction 1C	Pre-Development 10 year	10	580,324.000	12.250	123.56
Junction 1C	Pre-Development 25 year	25	792,067.000	12.200	167.16
Junction 1C	Pre-Development 100 year	100	1,230,839.000	12.200	255.86
Junction 1D	Pre-Development 1 year	1	732,905.000	12.350	125.34

Existing Hydrologic Calculations Report

Subsection: Master Network Summary

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
Junction 1D	Pre-Development 2 year	2	1,013,723.000	12.300	175.03
Junction 1D	Pre-Development 10 year	10	1,863,629.000	12.300	324.21
Junction 1D	Pre-Development 25 year	25	2,567,604.000	12.300	444.61
Junction 1D	Pre-Development 100 year	100	4,035,001.000	12.300	690.72
Junction 1A	Pre-Development 1 year	1	40,968.000	12.250	7.75
Junction 1A	Pre-Development 2 year	2	62,784.000	12.250	12.79
Junction 1A	Pre-Development 10 year	10	135,054.000	12.250	29.18
Junction 1A	Pre-Development 25 year	25	199,059.000	12.200	43.61
Junction 1A	Pre-Development 100 year	100	338,842.000	12.200	74.74

Subsection: Time-Depth Curve
Label: Time-Depth - 1
Scenario: Pre-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Time-Depth Curve: 1 year	
Label	1 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	1 years

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.00	0.00	0.01	0.01	0.01
0.500	0.01	0.02	0.02	0.02	0.02
1.000	0.03	0.03	0.03	0.03	0.04
1.500	0.04	0.04	0.04	0.05	0.05
2.000	0.05	0.05	0.06	0.06	0.06
2.500	0.07	0.07	0.07	0.07	0.08
3.000	0.08	0.08	0.09	0.09	0.09
3.500	0.10	0.10	0.10	0.11	0.11
4.000	0.11	0.12	0.12	0.12	0.13
4.500	0.13	0.13	0.14	0.14	0.14
5.000	0.15	0.15	0.16	0.16	0.16
5.500	0.17	0.17	0.18	0.18	0.18
6.000	0.19	0.19	0.20	0.20	0.21

Existing Hydrologic Calculations Report

Subsection: Time-Depth Curve | Return Event: 1 years
Label: Time-Depth - 1 | Storm Event: 1 year
Scenario: Pre-Development 1 year

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
6.500	0.21	0.22	0.22	0.23	0.23
7.000	0.24	0.24	0.25	0.25	0.26
7.500	0.27	0.27	0.28	0.28	0.29
8.000	0.30	0.30	0.31	0.32	0.33
8.500	0.34	0.34	0.35	0.36	0.37
9.000	0.38	0.39	0.40	0.41	0.42
9.500	0.43	0.44	0.46	0.47	0.48
10.000	0.49	0.51	0.52	0.53	0.55
10.500	0.57	0.58	0.60	0.62	0.63
11.000	0.65	0.67	0.70	0.72	0.75
11.500	0.78	0.82	0.89	0.97	1.09
12.000	1.30	1.52	1.64	1.72	1.79
12.500	1.83	1.86	1.89	1.91	1.94
13.000	1.96	1.98	1.99	2.01	2.03
13.500	2.04	2.06	2.08	2.09	2.10
14.000	2.12	2.13	2.14	2.15	2.17
14.500	2.18	2.19	2.20	2.21	2.22
15.000	2.23	2.24	2.25	2.26	2.27
15.500	2.27	2.28	2.29	2.30	2.31
16.000	2.31	2.32	2.33	2.33	2.34
16.500	2.34	2.35	2.36	2.36	2.37
17.000	2.37	2.38	2.38	2.39	2.39
17.500	2.40	2.40	2.41	2.41	2.42
18.000	2.42	2.43	2.43	2.43	2.44
18.500	2.44	2.45	2.45	2.45	2.46
19.000	2.46	2.47	2.47	2.47	2.48
19.500	2.48	2.48	2.49	2.49	2.49
20.000	2.50	2.50	2.50	2.51	2.51
20.500	2.51	2.52	2.52	2.52	2.53
21.000	2.53	2.53	2.54	2.54	2.54
21.500	2.55	2.55	2.55	2.55	2.56
22.000	2.56	2.56	2.57	2.57	2.57
22.500	2.57	2.58	2.58	2.58	2.58
23.000	2.59	2.59	2.59	2.59	2.60
23.500	2.60	2.60	2.60	2.61	2.61
24.000	2.61	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time-Depth Curve | Return Event: 10 years
Label: Time-Depth - 1 | Storm Event: 10 year
Scenario: Pre-Development 10 year

Time-Depth Curve: 10 year	
Label	10 year
Start Time	0.000 hours
Increment	0.100 hours

Existing Hydrologic Calculations Report

Subsection: Time-Depth Curve — Return Event: 10 years
Label: Time-Depth - 1 — Storm Event: 10 year
Scenario: Pre-Development 10 year

Time-Depth Curve: 10 year	
End Time	24.000 hours
Return Event	10 years

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.00	0.00	0.01	0.01	0.02
0.500	0.02	0.03	0.03	0.04	0.04
1.000	0.05	0.05	0.06	0.06	0.07
1.500	0.07	0.07	0.08	0.08	0.09
2.000	0.09	0.10	0.10	0.11	0.11
2.500	0.12	0.12	0.13	0.13	0.14
3.000	0.14	0.15	0.15	0.16	0.16
3.500	0.17	0.18	0.18	0.19	0.19
4.000	0.20	0.21	0.21	0.22	0.22
4.500	0.23	0.24	0.24	0.25	0.26
5.000	0.26	0.27	0.28	0.28	0.29
5.500	0.30	0.31	0.31	0.32	0.33
6.000	0.33	0.34	0.35	0.36	0.37
6.500	0.37	0.38	0.39	0.40	0.41
7.000	0.42	0.43	0.44	0.45	0.46
7.500	0.47	0.48	0.49	0.51	0.52
8.000	0.53	0.54	0.56	0.57	0.58
8.500	0.60	0.61	0.63	0.64	0.66
9.000	0.68	0.70	0.71	0.73	0.75
9.500	0.77	0.79	0.81	0.83	0.86
10.000	0.88	0.90	0.93	0.95	0.98
10.500	1.01	1.04	1.07	1.10	1.13
11.000	1.16	1.20	1.24	1.28	1.33
11.500	1.39	1.46	1.58	1.74	1.93
12.000	2.32	2.72	2.91	3.07	3.19
12.500	3.26	3.32	3.37	3.41	3.45
13.000	3.49	3.52	3.55	3.58	3.61
13.500	3.64	3.67	3.70	3.72	3.75
14.000	3.77	3.79	3.82	3.84	3.86
14.500	3.88	3.90	3.92	3.94	3.95
15.000	3.97	3.99	4.01	4.02	4.04
15.500	4.05	4.07	4.08	4.09	4.11
16.000	4.12	4.13	4.14	4.16	4.17
16.500	4.18	4.19	4.20	4.21	4.22
17.000	4.23	4.24	4.25	4.26	4.27
17.500	4.28	4.28	4.29	4.30	4.31
18.000	4.32	4.32	4.33	4.34	4.34
18.500	4.35	4.36	4.37	4.37	4.38
19.000	4.39	4.39	4.40	4.41	4.41
19.500	4.42	4.43	4.43	4.44	4.44
20.000	4.45	4.46	4.46	4.47	4.47

Existing Hydrologic Calculations Report

Subsection: Time-Depth Curve | Return Event: 10 years
Label: Time-Depth - 1 | Storm Event: 10 year
Scenario: Pre-Development 10 year

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
20.500	4.48	4.49	4.49	4.50	4.50
21.000	4.51	4.51	4.52	4.52	4.53
21.500	4.53	4.54	4.55	4.55	4.56
22.000	4.56	4.57	4.57	4.58	4.58
22.500	4.58	4.59	4.59	4.60	4.60
23.000	4.61	4.61	4.62	4.62	4.63
23.500	4.63	4.63	4.64	4.64	4.65
24.000	4.65	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time-Depth Curve | Return Event: 100 years
Label: Time-Depth - 1 | Storm Event: 100 year
Scenario: Pre-Development 100 year

Time-Depth Curve: 100 year	
Label	100 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	100 years

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.00	0.01	0.02	0.02	0.03
0.500	0.04	0.05	0.06	0.07	0.07
1.000	0.08	0.09	0.10	0.11	0.11
1.500	0.12	0.13	0.14	0.15	0.16
2.000	0.16	0.17	0.18	0.19	0.20
2.500	0.21	0.21	0.22	0.23	0.24
3.000	0.25	0.26	0.27	0.28	0.29
3.500	0.30	0.31	0.32	0.33	0.34
4.000	0.35	0.36	0.37	0.38	0.39
4.500	0.41	0.42	0.43	0.44	0.45
5.000	0.46	0.48	0.49	0.50	0.51
5.500	0.52	0.54	0.55	0.56	0.58
6.000	0.59	0.60	0.62	0.63	0.64
6.500	0.66	0.67	0.69	0.71	0.72
7.000	0.74	0.76	0.77	0.79	0.81
7.500	0.83	0.85	0.87	0.89	0.91
8.000	0.93	0.95	0.98	1.00	1.02
8.500	1.05	1.08	1.10	1.13	1.16
9.000	1.19	1.22	1.25	1.29	1.32
9.500	1.36	1.39	1.43	1.47	1.50

Subsection: Time-Depth Curve | Return Event: 100 years
Label: Time-Depth - 1 | Storm Event: 100 year
Scenario: Pre-Development 100 year

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
10.000	1.54	1.59	1.63	1.67	1.72
10.500	1.77	1.82	1.87	1.93	1.98
11.000	2.04	2.11	2.18	2.26	2.34
11.500	2.43	2.57	2.77	3.05	3.40
12.000	4.08	4.77	5.12	5.40	5.60
12.500	5.74	5.83	5.91	5.99	6.06
13.000	6.13	6.19	6.24	6.30	6.35
13.500	6.40	6.45	6.50	6.54	6.58
14.000	6.63	6.67	6.70	6.74	6.78
14.500	6.81	6.85	6.88	6.92	6.95
15.000	6.98	7.01	7.04	7.07	7.09
15.500	7.12	7.15	7.17	7.19	7.22
16.000	7.24	7.26	7.28	7.30	7.32
16.500	7.34	7.36	7.38	7.40	7.41
17.000	7.43	7.45	7.46	7.48	7.50
17.500	7.51	7.53	7.54	7.55	7.57
18.000	7.58	7.59	7.61	7.62	7.63
18.500	7.65	7.66	7.67	7.68	7.69
19.000	7.71	7.72	7.73	7.74	7.75
19.500	7.76	7.78	7.79	7.80	7.81
20.000	7.82	7.83	7.84	7.85	7.86
20.500	7.87	7.88	7.89	7.90	7.91
21.000	7.92	7.93	7.94	7.95	7.96
21.500	7.97	7.98	7.99	7.99	8.00
22.000	8.01	8.02	8.03	8.04	8.05
22.500	8.06	8.06	8.07	8.08	8.09
23.000	8.10	8.10	8.11	8.12	8.13
23.500	8.13	8.14	8.15	8.16	8.16
24.000	8.17	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time-Depth Curve | Return Event: 2 years
Label: Time-Depth - 1 | Storm Event: 2 year
Scenario: Pre-Development 2 year

Time-Depth Curve: 2 year	
Label	2 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	2 years

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Existing Hydrologic Calculations Report

Subsection: Time-Depth Curve — Return Event: 2 years
Label: Time-Depth - 1 — Storm Event: 2 year
Scenario: Pre-Development 2 year

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.00	0.00	0.01	0.01	0.01
0.500	0.02	0.02	0.02	0.03	0.03
1.000	0.03	0.03	0.04	0.04	0.04
1.500	0.05	0.05	0.05	0.06	0.06
2.000	0.06	0.07	0.07	0.07	0.08
2.500	0.08	0.08	0.09	0.09	0.09
3.000	0.10	0.10	0.10	0.11	0.11
3.500	0.12	0.12	0.12	0.13	0.13
4.000	0.14	0.14	0.14	0.15	0.15
4.500	0.16	0.16	0.17	0.17	0.17
5.000	0.18	0.18	0.19	0.19	0.20
5.500	0.20	0.21	0.21	0.22	0.22
6.000	0.23	0.23	0.24	0.24	0.25
6.500	0.25	0.26	0.27	0.27	0.28
7.000	0.29	0.29	0.30	0.31	0.31
7.500	0.32	0.33	0.34	0.34	0.35
8.000	0.36	0.37	0.38	0.39	0.39
8.500	0.40	0.41	0.43	0.44	0.45
9.000	0.46	0.47	0.48	0.50	0.51
9.500	0.52	0.54	0.55	0.57	0.58
10.000	0.60	0.61	0.63	0.65	0.66
10.500	0.68	0.70	0.72	0.74	0.76
11.000	0.79	0.81	0.84	0.87	0.90
11.500	0.94	0.99	1.07	1.18	1.31
12.000	1.57	1.84	1.97	2.08	2.16
12.500	2.21	2.25	2.28	2.31	2.34
13.000	2.36	2.39	2.41	2.43	2.45
13.500	2.47	2.49	2.50	2.52	2.54
14.000	2.55	2.57	2.58	2.60	2.61
14.500	2.63	2.64	2.65	2.67	2.68
15.000	2.69	2.70	2.71	2.72	2.74
15.500	2.75	2.76	2.76	2.77	2.78
16.000	2.79	2.80	2.81	2.81	2.82
16.500	2.83	2.84	2.84	2.85	2.86
17.000	2.86	2.87	2.88	2.88	2.89
17.500	2.90	2.90	2.91	2.91	2.92
18.000	2.92	2.93	2.93	2.94	2.94
18.500	2.95	2.95	2.96	2.96	2.97
19.000	2.97	2.98	2.98	2.98	2.99
19.500	2.99	3.00	3.00	3.01	3.01
20.000	3.01	3.02	3.02	3.03	3.03
20.500	3.03	3.04	3.04	3.05	3.05
21.000	3.05	3.06	3.06	3.06	3.07
21.500	3.07	3.08	3.08	3.08	3.09
22.000	3.09	3.09	3.10	3.10	3.10
22.500	3.11	3.11	3.11	3.12	3.12

Existing Hydrologic Calculations Report

Subsection: Time-Depth Curve — Return Event: 2 years
Label: Time-Depth - 1 — Storm Event: 2 year
Scenario: Pre-Development 2 year

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
23.000	3.12	3.12	3.13	3.13	3.13
23.500	3.14	3.14	3.14	3.14	3.15
24.000	3.15	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time-Depth Curve — Return Event: 25 years
Label: Time-Depth - 1 — Storm Event: 25 year
Scenario: Pre-Development 25 year

Time-Depth Curve: 25 year	
Label	25 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	25 years

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.00	0.01	0.01	0.02	0.02
0.500	0.03	0.03	0.04	0.05	0.05
1.000	0.06	0.06	0.07	0.08	0.08
1.500	0.09	0.09	0.10	0.10	0.11
2.000	0.12	0.12	0.13	0.13	0.14
2.500	0.15	0.15	0.16	0.17	0.17
3.000	0.18	0.19	0.19	0.20	0.21
3.500	0.21	0.22	0.23	0.24	0.24
4.000	0.25	0.26	0.27	0.27	0.28
4.500	0.29	0.30	0.31	0.31	0.32
5.000	0.33	0.34	0.35	0.36	0.36
5.500	0.37	0.38	0.39	0.40	0.41
6.000	0.42	0.43	0.44	0.45	0.46
6.500	0.47	0.48	0.49	0.50	0.51
7.000	0.53	0.54	0.55	0.56	0.58
7.500	0.59	0.61	0.62	0.63	0.65
8.000	0.66	0.68	0.70	0.71	0.73
8.500	0.75	0.77	0.79	0.81	0.83
9.000	0.85	0.87	0.89	0.92	0.94
9.500	0.97	0.99	1.02	1.04	1.07
10.000	1.10	1.13	1.16	1.19	1.23
10.500	1.26	1.30	1.33	1.37	1.41
11.000	1.45	1.50	1.55	1.61	1.67
11.500	1.73	1.83	1.98	2.17	2.42
12.000	2.91	3.40	3.65	3.84	3.99

Existing Hydrologic Calculations Report

Subsection: Time-Depth Curve — Return Event: 25 years
Label: Time-Depth - 1 — Storm Event: 25 year
Scenario: Pre-Development 25 year

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
12.500	4.09	4.15	4.21	4.27	4.32
13.000	4.36	4.41	4.45	4.49	4.52
13.500	4.56	4.59	4.63	4.66	4.69
14.000	4.72	4.75	4.78	4.80	4.83
14.500	4.85	4.88	4.90	4.93	4.95
15.000	4.97	4.99	5.01	5.03	5.05
15.500	5.07	5.09	5.11	5.12	5.14
16.000	5.16	5.17	5.19	5.20	5.21
16.500	5.23	5.24	5.26	5.27	5.28
17.000	5.29	5.31	5.32	5.33	5.34
17.500	5.35	5.36	5.37	5.38	5.39
18.000	5.40	5.41	5.42	5.43	5.44
18.500	5.45	5.46	5.46	5.47	5.48
19.000	5.49	5.50	5.51	5.51	5.52
19.500	5.53	5.54	5.55	5.55	5.56
20.000	5.57	5.58	5.58	5.59	5.60
20.500	5.61	5.61	5.62	5.63	5.64
21.000	5.64	5.65	5.66	5.66	5.67
21.500	5.68	5.68	5.69	5.70	5.70
22.000	5.71	5.71	5.72	5.73	5.73
22.500	5.74	5.74	5.75	5.76	5.76
23.000	5.77	5.77	5.78	5.78	5.79
23.500	5.79	5.80	5.80	5.81	5.81
24.000	5.82	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time of Concentration Calculations — Return Event: 1 years
Label: EDA 1A — Storm Event: 1 year
Scenario: Pre-Development 1 year

Time of Concentration Results

Segment #1: TR-55 Shallow Concentrated Flow	
Hydraulic Length	478.00 ft
Is Paved?	False
Slope	0.040 ft/ft
Average Velocity	3.23 ft/s
Segment Time of Concentration	0.041 hours

Segment #2: TR-55 Channel Flow	
Flow Area	36.0 ft²
Hydraulic Length	443.00 ft
Manning's n	0.170
Slope	0.040 ft/ft
Wetted Perimeter	18.00 ft

Existing Hydrologic Calculations Report

Subsection: Time of Concentration Calculations	Return Event: 1 years
Label: EDA 1A	Storm Event: 1 year
Scenario: Pre-Development 1 year	

Segment #2: TR-55 Channel Flow	
Average Velocity	2.78 ft/s
Segment Time of Concentration	0.044 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.085 hours

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Subsection: Time of Concentration Calculations	Return Event: 1 years
Label: EDA 1B	Storm Event: 1 year
Scenario: Pre-Development 1 year	

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	150.00 ft
Manning's n	0.170
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.19 in
Average Velocity	0.22 ft/s
Segment Time of Concentration	0.190 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	870.00 ft
Is Paved?	False
Slope	0.090 ft/ft

Existing Hydrologic Calculations Report

Subsection: Time of Concentration Calculations
Label: EDA 1B
Scenario: Pre-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Segment #2: TR-55 Shallow Concentrated Flow	
Average Velocity	4.84 ft/s
Segment Time of Concentration	0.050 hours

Segment #3: TR-55 Channel Flow	
Flow Area	36.0 ft²
Hydraulic Length	1,120.00 ft
Manning's n	0.170
Slope	0.110 ft/ft
Wetted Perimeter	18.00 ft
Average Velocity	4.61 ft/s
Segment Time of Concentration	0.067 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.307 hours

==== SCS Channel Flow

Tc =
R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Existing Hydrologic Calculations Report

Subsection: Time of Concentration Calculations | Return Event: 1 years
Label: EDA 1B | Storm Event: 1 year
Scenario: Pre-Development 1 year

==== SCS TR-55 Sheet Flow

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Subsection: Time of Concentration Calculations | Return Event: 1 years
Label: Offsite DA-1A | Storm Event: 1 year
Scenario: Pre-Development 1 year

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	150.00 ft
Manning's n	0.170
Slope	0.067 ft/ft
2 Year 24 Hour Depth	3.20 in
Average Velocity	0.27 ft/s
Segment Time of Concentration	0.154 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	1,141.00 ft
Is Paved?	False
Slope	0.080 ft/ft
Average Velocity	4.56 ft/s
Segment Time of Concentration	0.069 hours

Segment #3: TR-55 Channel Flow	
Flow Area	40.0 ft^2
Hydraulic Length	1,226.00 ft
Manning's n	0.170
Slope	0.040 ft/ft
Wetted Perimeter	10.00 ft
Average Velocity	4.42 ft/s
Segment Time of Concentration	0.077 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.300 hours

==== SCS Channel Flow

Existing Hydrologic Calculations Report

Subsection: Time of Concentration Calculations — Return Event: 1 years
Label: Offsite DA-1A — Storm Event: 1 year
Scenario: Pre-Development 1 year

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Subsection: Time of Concentration Calculations — Return Event: 1 years
Label: Offsite DA-1B — Storm Event: 1 year
Scenario: Pre-Development 1 year

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	150.00 ft
Manning's n	0.170
Slope	0.053 ft/ft
2 Year 24 Hour Depth	3.19 in
Average Velocity	0.25 ft/s
Segment Time of Concentration	0.169 hours

Segment #2: TR-55 Shallow Concentrated Flow

Existing Hydrologic Calculations Report

Subsection: Time of Concentration Calculations
Label: Offsite DA-1B
Scenario: Pre-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	305.00 ft
Is Paved?	False
Slope	0.085 ft/ft
Average Velocity	4.70 ft/s
Segment Time of Concentration	0.018 hours

Segment #3: TR-55 Channel Flow	
Flow Area	36.0 ft²
Hydraulic Length	4,837.50 ft
Manning's n	0.170
Slope	0.058 ft/ft
Wetted Perimeter	18.00 ft
Average Velocity	3.35 ft/s
Segment Time of Concentration	0.401 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.588 hours

==== SCS Channel Flow

Tc =
R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

Existing Hydrologic Calculations Report

Subsection: Time of Concentration Calculations — Return Event: 1 years
Label: Offsite DA-1B — Storm Event: 1 year
Scenario: Pre-Development 1 year

==== SCS TR-55 Sheet Flow

Tc =	(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))
Where:	Tc= Time of concentration, hours n= Manning's n Lf= Flow length, feet P= 2yr, 24hr Rain depth, inches Sf= Slope, %

Subsection: Time of Concentration Calculations — Return Event: 1 years
Label: Offsite DA-1C — Storm Event: 1 year
Scenario: Pre-Development 1 year

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	150.00 ft
Manning's n	0.170
Slope	0.053 ft/ft
2 Year 24 Hour Depth	3.19 in
Average Velocity	0.25 ft/s
Segment Time of Concentration	0.169 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	523.00 ft
Is Paved?	False
Slope	0.050 ft/ft
Average Velocity	3.61 ft/s
Segment Time of Concentration	0.040 hours

Segment #3: TR-55 Channel Flow	
Flow Area	36.0 ft²
Hydraulic Length	1,536.00 ft
Manning's n	0.170
Slope	0.070 ft/ft
Wetted Perimeter	18.00 ft
Average Velocity	3.68 ft/s
Segment Time of Concentration	0.116 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.326 hours

==== SCS Channel Flow

Subsection: Time of Concentration Calculations | Return Event: 1 years
Label: Offsite DA-1C | Storm Event: 1 year
Scenario: Pre-Development 1 year

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Subsection: Runoff CN-Area | Return Event: 1 years
Label: EDA 1A | Storm Event: 1 year
Scenario: Pre-Development 1 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Farmsteads - ---- - Soil C	82.000	6.258	0.0	0.0	82.000
Farmsteads - ---- - Soil A	59.000	0.959	0.0	0.0	59.000
CN Description	98.000	1.506	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	8.723	(N/A)	(N/A)	82.234

Subsection: Runoff CN-Area | Return Event: 1 years
Label: EDA 1B | Storm Event: 1 year
Scenario: Pre-Development 1 year

Existing Hydrologic Calculations Report

Subsection: Runoff CN-Area | Return Event: 1 years
Label: EDA 1B | Storm Event: 1 year
Scenario: Pre-Development 1 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Farmsteads - ---- - Soil C	82.000	28.595	0.0	0.0	82.000
Farmsteads - ---- - Soil A	59.000	2.653	0.0	0.0	59.000
Farmsteads - ---- - Soil D	86.000	3.313	0.0	0.0	86.000
CN Description	98.000	0.522	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	35.083	(N/A)	(N/A)	80.877

Subsection: Runoff CN-Area | Return Event: 1 years
Label: Offsite DA-1A | Storm Event: 1 year
Scenario: Pre-Development 1 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Farmsteads - ---- - Soil A	59.000	8.308	0.0	0.0	59.000
Farmsteads - ---- - Soil C	82.000	11.022	0.0	0.0	82.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	19.330	(N/A)	(N/A)	72.115

Subsection: Runoff CN-Area | Return Event: 1 years
Label: Offsite DA-1B | Storm Event: 1 year
Scenario: Pre-Development 1 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Farmsteads - ---- - Soil C	82.000	80.133	0.0	0.0	82.000
Farmsteads - ---- - Soil D	86.000	13.674	0.0	0.0	86.000
Farmsteads - ---- - Soil A	59.000	0.809	0.0	0.0	59.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	94.616	(N/A)	(N/A)	82.381

Subsection: Runoff CN-Area | Return Event: 1 years
Label: Offsite DA-1C | Storm Event: 1 year
Scenario: Pre-Development 1 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Farmsteads - ---- - Soil C	82.000	31.050	0.0	0.0	82.000
Farmsteads - ---- - Soil D	86.000	23.267	0.0	0.0	86.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	54.317	(N/A)	(N/A)	83.713

Subsection: Unit Hydrograph Summary | Return Event: 1 years
Label: EDA 1A | Storm Event: 1 year
Scenario: Pre-Development 1 year

Storm Event	1 year

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 1 years
Label: EDA 1A — Storm Event: 1 year
Scenario: Pre-Development 1 year

Return Event	1 years
Duration	24.000 hours
Depth	2.61 in
Time of Concentration (Composite)	0.085 hours
Area (User Defined)	8.723 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.111 hours
Flow (Peak, Computed)	9.84 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	9.76 ft³/s

Drainage Area	
SCS CN (Composite)	82.000
Area (User Defined)	8.723 acres
Maximum Retention (Pervious)	2.20 in
Maximum Retention (Pervious, 20 percent)	0.44 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.08 in
Runoff Volume (Pervious)	34,181.316 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	34,143.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.085 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	115.77 ft³/s
Unit peak time, Tp	0.057 hours
Unit receding limb, Tr	0.228 hours
Total unit time, Tb	0.285 hours

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 2 years
Label: EDA 1A — Storm Event: 2 year
Scenario: Pre-Development 2 year

Storm Event	2 year
Return Event	2 years
Duration	24.000 hours
Depth	3.15 in
Time of Concentration (Composite)	0.085 hours
Area (User Defined)	8.723 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.111 hours
Flow (Peak, Computed)	13.67 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	13.59 ft³/s

Drainage Area	
SCS CN (Composite)	82.000
Area (User Defined)	8.723 acres
Maximum Retention (Pervious)	2.20 in
Maximum Retention (Pervious, 20 percent)	0.44 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.50 in
Runoff Volume (Pervious)	47,433.751 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	47,384.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.085 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	115.77 ft³/s
Unit peak time, Tp	0.057 hours
Unit receding limb, Tr	0.228 hours
Total unit time, Tb	0.285 hours

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 10 years
Label: EDA 1A — Storm Event: 10 year
Scenario: Pre-Development 10 year

Storm Event	10 year
Return Event	10 years
Duration	24.000 hours
Depth	4.65 in
Time of Concentration (Composite)	0.085 hours
Area (User Defined)	8.723 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.111 hours
Flow (Peak, Computed)	24.91 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	24.88 ft³/s

Drainage Area	
SCS CN (Composite)	82.000
Area (User Defined)	8.723 acres
Maximum Retention (Pervious)	2.20 in
Maximum Retention (Pervious, 20 percent)	0.44 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.77 in
Runoff Volume (Pervious)	87,648.470 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	87,570.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.085 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	115.77 ft³/s
Unit peak time, Tp	0.057 hours
Unit receding limb, Tr	0.228 hours
Total unit time, Tb	0.285 hours

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Storm Event	25 year
Return Event	25 years
Duration	24.000 hours
Depth	5.82 in
Time of Concentration (Composite)	0.085 hours
Area (User Defined)	8.723 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	33.93 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	33.93 ft³/s

Drainage Area

SCS CN (Composite)	82.000
Area (User Defined)	8.723 acres
Maximum Retention (Pervious)	2.20 in
Maximum Retention (Pervious, 20 percent)	0.44 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	3.82 in
Runoff Volume (Pervious)	121,017.728 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	120,917.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.085 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	115.77 ft³/s
Unit peak time, Tp	0.057 hours
Unit receding limb, Tr	0.228 hours
Total unit time, Tb	0.285 hours

Existing Hydrologic Calculations Report

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 100 years
Label: EDA 1A — Storm Event: 100 year
Scenario: Pre-Development 100 year

Storm Event	100 year
Return Event	100 years
Duration	24.000 hours
Depth	8.17 in
Time of Concentration (Composite)	0.085 hours
Area (User Defined)	8.723 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	52.20 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	52.20 ft³/s

Drainage Area

SCS CN (Composite)	82.000
Area (User Defined)	8.723 acres
Maximum Retention (Pervious)	2.20 in
Maximum Retention (Pervious, 20 percent)	0.44 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	6.02 in
Runoff Volume (Pervious)	190,661.320 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	190,516.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.085 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	115.77 ft³/s
Unit peak time, Tp	0.057 hours
Unit receding limb, Tr	0.228 hours
Total unit time, Tb	0.285 hours

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary
Label: EDA 1A
Scenario: Pre-Development 100 year

Return Event: 100 years
Storm Event: 100 year

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 1 years
Label: EDA 1B | Storm Event: 1 year
Scenario: Pre-Development 1 year

Storm Event	1 year
Return Event	1 years
Duration	24.000 hours
Depth	2.61 in
Time of Concentration (Composite)	0.307 hours
Area (User Defined)	35.083 acres

Computational Time Increment	0.041 hours
Time to Peak (Computed)	12.233 hours
Flow (Peak, Computed)	27.90 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	27.66 ft³/s

Drainage Area	
SCS CN (Composite)	81.000
Area (User Defined)	35.083 acres
Maximum Retention (Pervious)	2.35 in
Maximum Retention (Pervious, 20 percent)	0.47 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.02 in
Runoff Volume (Pervious)	130,097.748 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	129,592.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.307 hours
Computational Time Increment	0.041 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	129.54 ft³/s
Unit peak time, Tp	0.205 hours
Unit receding limb, Tr	0.818 hours
Total unit time, Tb	1.023 hours

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Storm Event	2 year
Return Event	2 years
Duration	24.000 hours
Depth	3.15 in
Time of Concentration (Composite)	0.307 hours
Area (User Defined)	35.083 acres

Computational Time Increment	0.041 hours
Time to Peak (Computed)	12.233 hours
Flow (Peak, Computed)	39.65 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	39.20 ft³/s

Drainage Area

SCS CN (Composite)	81.000
Area (User Defined)	35.083 acres
Maximum Retention (Pervious)	2.35 in
Maximum Retention (Pervious, 20 percent)	0.47 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	1.43 in
Runoff Volume (Pervious)	182,088.955 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	181,433.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.307 hours
Computational Time Increment	0.041 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	129.54 ft³/s
Unit peak time, Tp	0.205 hours
Unit receding limb, Tr	0.818 hours
Total unit time, Tb	1.023 hours

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary
Label: EDA 1B
Scenario: Pre-Development 2 year

Return Event: 2 years
Storm Event: 2 year

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 10 years
Label: EDA 1B — Storm Event: 10 year
Scenario: Pre-Development 10 year

Storm Event	10 year
Return Event	10 years
Duration	24.000 hours
Depth	4.65 in
Time of Concentration (Composite)	0.307 hours
Area (User Defined)	35.083 acres

Computational Time Increment	0.041 hours
Time to Peak (Computed)	12.233 hours
Flow (Peak, Computed)	74.76 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	74.26 ft³/s

Drainage Area	
SCS CN (Composite)	81.000
Area (User Defined)	35.083 acres
Maximum Retention (Pervious)	2.35 in
Maximum Retention (Pervious, 20 percent)	0.47 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.68 in
Runoff Volume (Pervious)	341,076.888 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	340,001.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.307 hours
Computational Time Increment	0.041 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	129.54 ft³/s
Unit peak time, Tp	0.205 hours
Unit receding limb, Tr	0.818 hours
Total unit time, Tb	1.023 hours

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 25 years
Label: EDA 1B — Storm Event: 25 year
Scenario: Pre-Development 25 year

Storm Event	25 year
Return Event	25 years
Duration	24.000 hours
Depth	5.82 in
Time of Concentration (Composite)	0.307 hours
Area (User Defined)	35.083 acres

Computational Time Increment	0.041 hours
Time to Peak (Computed)	12.233 hours
Flow (Peak, Computed)	103.27 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	102.95 ft³/s

Drainage Area	
SCS CN (Composite)	81.000
Area (User Defined)	35.083 acres
Maximum Retention (Pervious)	2.35 in
Maximum Retention (Pervious, 20 percent)	0.47 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.72 in
Runoff Volume (Pervious)	473,756.855 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	472,355.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.307 hours
Computational Time Increment	0.041 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	129.54 ft³/s
Unit peak time, Tp	0.205 hours
Unit receding limb, Tr	0.818 hours
Total unit time, Tb	1.023 hours

Existing Hydrologic Calculations Report

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 100 years
Label: EDA 1B | Storm Event: 100 year
Scenario: Pre-Development 100 year

Storm Event	100 year
Return Event	100 years
Duration	24.000 hours
Depth	8.17 in
Time of Concentration (Composite)	0.307 hours
Area (User Defined)	35.083 acres

Computational Time Increment	0.041 hours
Time to Peak (Computed)	12.192 hours
Flow (Peak, Computed)	161.49 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	161.45 ft³/s

Drainage Area

SCS CN (Composite)	81.000
Area (User Defined)	35.083 acres
Maximum Retention (Pervious)	2.35 in
Maximum Retention (Pervious, 20 percent)	0.47 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	5.90 in
Runoff Volume (Pervious)	751,736.531 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	749,688.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.307 hours
Computational Time Increment	0.041 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	129.54 ft³/s
Unit peak time, Tp	0.205 hours
Unit receding limb, Tr	0.818 hours
Total unit time, Tb	1.023 hours

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary
Return Event: 100 years
Label: EDA 1B
Storm Event: 100 year
Scenario: Pre-Development 100 year

SCS Unit Hydrograph Parameters

Storm Event	1 year
Return Event	1 years
Duration	24.000 hours
Depth	2.61 in
Time of Concentration (Composite)	0.300 hours
Area (User Defined)	19.330 acres

Computational Time Increment	0.040 hours
Time to Peak (Computed)	12.260 hours
Flow (Peak, Computed)	7.79 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	7.75 ft³/s

Drainage Area	
SCS CN (Composite)	72.000
Area (User Defined)	19.330 acres
Maximum Retention (Pervious)	3.89 in
Maximum Retention (Pervious, 20 percent)	0.78 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.59 in
Runoff Volume (Pervious)	41,173.184 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	40,968.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.300 hours
Computational Time Increment	0.040 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	72.89 ft³/s
Unit peak time, Tp	0.200 hours
Unit receding limb, Tr	0.801 hours
Total unit time, Tb	1.002 hours

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 1 years
Label: Offsite DA-1A | Storm Event: 1 year
Scenario: Pre-Development 1 year

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 2 years
Label: Offsite DA-1A | Storm Event: 2 year
Scenario: Pre-Development 2 year

Storm Event	2 year
Return Event	2 years
Duration	24.000 hours
Depth	3.15 in
Time of Concentration (Composite)	0.300 hours
Area (User Defined)	19.330 acres

Computational Time Increment	0.040 hours
Time to Peak (Computed)	12.260 hours
Flow (Peak, Computed)	12.80 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	12.79 ft³/s

Drainage Area	
SCS CN (Composite)	72.000
Area (User Defined)	19.330 acres
Maximum Retention (Pervious)	3.89 in
Maximum Retention (Pervious, 20 percent)	0.78 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.90 in
Runoff Volume (Pervious)	63,066.374 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	62,784.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.300 hours
Computational Time Increment	0.040 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	72.89 ft³/s
Unit peak time, Tp	0.200 hours
Unit receding limb, Tr	0.801 hours
Total unit time, Tb	1.002 hours

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 10 years
Label: Offsite DA-1A | Storm Event: 10 year
Scenario: Pre-Development 10 year

Storm Event	10 year
Return Event	10 years
Duration	24.000 hours
Depth	4.65 in
Time of Concentration (Composite)	0.300 hours
Area (User Defined)	19.330 acres

Computational Time Increment	0.040 hours
Time to Peak (Computed)	12.220 hours
Flow (Peak, Computed)	29.56 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	29.18 ft³/s

Drainage Area	
SCS CN (Composite)	72.000
Area (User Defined)	19.330 acres
Maximum Retention (Pervious)	3.89 in
Maximum Retention (Pervious, 20 percent)	0.78 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.93 in
Runoff Volume (Pervious)	135,561.108 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	135,054.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.300 hours
Computational Time Increment	0.040 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	72.89 ft³/s
Unit peak time, Tp	0.200 hours
Unit receding limb, Tr	0.801 hours
Total unit time, Tb	1.002 hours

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary	Return Event: 25 years
Label: Offsite DA-1A	Storm Event: 25 year
Scenario: Pre-Development 25 year	

Storm Event	25 year
Return Event	25 years
Duration	24.000 hours
Depth	5.82 in
Time of Concentration (Composite)	0.300 hours
Area (User Defined)	19.330 acres

Computational Time Increment	0.040 hours
Time to Peak (Computed)	12.220 hours
Flow (Peak, Computed)	44.18 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	43.61 ft³/s

Drainage Area	
SCS CN (Composite)	72.000
Area (User Defined)	19.330 acres
Maximum Retention (Pervious)	3.89 in
Maximum Retention (Pervious, 20 percent)	0.78 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.85 in
Runoff Volume (Pervious)	199,745.495 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	199,059.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.300 hours
Computational Time Increment	0.040 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	72.89 ft³/s
Unit peak time, Tp	0.200 hours
Unit receding limb, Tr	0.801 hours
Total unit time, Tb	1.002 hours

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary   Return Event: 100 years
Label: Offsite DA-1A   Storm Event: 100 year
Scenario: Pre-Development 100 year

Storm Event	100 year
Return Event	100 years
Duration	24.000 hours
Depth	8.17 in
Time of Concentration (Composite)	0.300 hours
Area (User Defined)	19.330 acres

Computational Time Increment	0.040 hours
Time to Peak (Computed)	12.220 hours
Flow (Peak, Computed)	75.39 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	74.74 ft³/s

Drainage Area	
SCS CN (Composite)	72.000
Area (User Defined)	19.330 acres
Maximum Retention (Pervious)	3.89 in
Maximum Retention (Pervious, 20 percent)	0.78 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.84 in
Runoff Volume (Pervious)	339,888.655 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	338,842.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.300 hours
Computational Time Increment	0.040 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	72.89 ft³/s
Unit peak time, Tp	0.200 hours
Unit receding limb, Tr	0.801 hours
Total unit time, Tb	1.002 hours

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 1 years
Label: Offsite DA-1B — Storm Event: 1 year
Scenario: Pre-Development 1 year

Storm Event	1 year
Return Event	1 years
Duration	24.000 hours
Depth	2.61 in
Time of Concentration (Composite)	0.588 hours
Area (User Defined)	94.616 acres

Computational Time Increment	0.078 hours
Time to Peak (Computed)	12.473 hours
Flow (Peak, Computed)	60.69 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.450 hours
Flow (Peak Interpolated Output)	60.63 ft³/s

Drainage Area

SCS CN (Composite)	82.000
Area (User Defined)	94.616 acres
Maximum Retention (Pervious)	2.20 in
Maximum Retention (Pervious, 20 percent)	0.44 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	1.08 in
Runoff Volume (Pervious)	370,755.591 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	367,989.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.588 hours
Computational Time Increment	0.078 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	182.20 ft³/s
Unit peak time, Tp	0.392 hours
Unit receding limb, Tr	1.569 hours
Total unit time, Tb	1.961 hours

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 1 years
Label: Offsite DA-1B — Storm Event: 1 year
Scenario: Pre-Development 1 year

SCS Unit Hydrograph Parameters

Storm Event	2 year
Return Event	2 years
Duration	24.000 hours
Depth	3.15 in
Time of Concentration (Composite)	0.588 hours
Area (User Defined)	94.616 acres

Computational Time Increment	0.078 hours
Time to Peak (Computed)	12.395 hours
Flow (Peak, Computed)	85.29 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.400 hours
Flow (Peak Interpolated Output)	85.27 ft³/s

Drainage Area	
SCS CN (Composite)	82.000
Area (User Defined)	94.616 acres
Maximum Retention (Pervious)	2.20 in
Maximum Retention (Pervious, 20 percent)	0.44 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.50 in
Runoff Volume (Pervious)	514,501.082 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	510,925.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.588 hours
Computational Time Increment	0.078 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	182.20 ft³/s
Unit peak time, Tp	0.392 hours
Unit receding limb, Tr	1.569 hours
Total unit time, Tb	1.961 hours

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 2 years
Label: Offsite DA-1B | Storm Event: 2 year
Scenario: Pre-Development 2 year

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 10 years
Label: Offsite DA-1B | Storm Event: 10 year
Scenario: Pre-Development 10 year

Storm Event	10 year
Return Event	10 years
Duration	24.000 hours
Depth	4.65 in
Time of Concentration (Composite)	0.588 hours
Area (User Defined)	94.616 acres

Computational Time Increment	0.078 hours
Time to Peak (Computed)	12.395 hours
Flow (Peak, Computed)	159.15 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.400 hours
Flow (Peak Interpolated Output)	158.98 ft³/s

Drainage Area	
SCS CN (Composite)	82.000
Area (User Defined)	94.616 acres
Maximum Retention (Pervious)	2.20 in
Maximum Retention (Pervious, 20 percent)	0.44 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.77 in
Runoff Volume (Pervious)	950,699.249 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	944,869.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.588 hours
Computational Time Increment	0.078 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	182.20 ft³/s
Unit peak time, Tp	0.392 hours
Unit receding limb, Tr	1.569 hours
Total unit time, Tb	1.961 hours

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary
Return Event: 10 years
Label: Offsite DA-1B
Storm Event: 10 year
Scenario: Pre-Development 10 year

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 25 years
Label: Offsite DA-1B — Storm Event: 25 year
Scenario: Pre-Development 25 year

Storm Event	25 year
Return Event	25 years
Duration	24.000 hours
Depth	5.82 in
Time of Concentration (Composite)	0.588 hours
Area (User Defined)	94.616 acres

Computational Time Increment	0.078 hours
Time to Peak (Computed)	12.395 hours
Flow (Peak, Computed)	218.94 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.400 hours
Flow (Peak Interpolated Output)	218.63 ft³/s

Drainage Area	
SCS CN (Composite)	82.000
Area (User Defined)	94.616 acres
Maximum Retention (Pervious)	2.20 in
Maximum Retention (Pervious, 20 percent)	0.44 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.82 in
Runoff Volume (Pervious)	1,312,646.344 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,305,069.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.588 hours
Computational Time Increment	0.078 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	182.20 ft³/s
Unit peak time, Tp	0.392 hours
Unit receding limb, Tr	1.569 hours
Total unit time, Tb	1.961 hours

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 100 years
Label: Offsite DA-1B — Storm Event: 100 year
Scenario: Pre-Development 100 year

Storm Event	100 year
Return Event	100 years
Duration	24.000 hours
Depth	8.17 in
Time of Concentration (Composite)	0.588 hours
Area (User Defined)	94.616 acres

Computational Time Increment	0.078 hours
Time to Peak (Computed)	12.395 hours
Flow (Peak, Computed)	340.39 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.400 hours
Flow (Peak Interpolated Output)	339.79 ft³/s

Drainage Area	
SCS CN (Composite)	82.000
Area (User Defined)	94.616 acres
Maximum Retention (Pervious)	2.20 in
Maximum Retention (Pervious, 20 percent)	0.44 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.02 in
Runoff Volume (Pervious)	2,068,051.307 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	2,057,003.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.588 hours
Computational Time Increment	0.078 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	182.20 ft³/s
Unit peak time, Tp	0.392 hours
Unit receding limb, Tr	1.569 hours
Total unit time, Tb	1.961 hours

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary

Label: Offsite DA-1B

Scenario: Pre-Development 100 year

Return Event: 100 years

Storm Event: 100 year

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 1 years
Label: Offsite DA-1C | Storm Event: 1 year
Scenario: Pre-Development 1 year

Storm Event	1 year
Return Event	1 years
Duration	24.000 hours
Depth	2.61 in
Time of Concentration (Composite)	0.326 hours
Area (User Defined)	54.317 acres

Computational Time Increment	0.043 hours
Time to Peak (Computed)	12.239 hours
Flow (Peak, Computed)	50.60 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	50.32 ft³/s

Drainage Area	
SCS CN (Composite)	84.000
Area (User Defined)	54.317 acres
Maximum Retention (Pervious)	1.90 in
Maximum Retention (Pervious, 20 percent)	0.38 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.20 in
Runoff Volume (Pervious)	236,990.357 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	236,139.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.326 hours
Computational Time Increment	0.043 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	189.07 ft³/s
Unit peak time, Tp	0.217 hours
Unit receding limb, Tr	0.868 hours
Total unit time, Tb	1.085 hours

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 2 years
Label: Offsite DA-1C | Storm Event: 2 year
Scenario: Pre-Development 2 year

Storm Event	2 year
Return Event	2 years
Duration	24.000 hours
Depth	3.15 in
Time of Concentration (Composite)	0.326 hours
Area (User Defined)	54.317 acres

Computational Time Increment	0.043 hours
Time to Peak (Computed)	12.239 hours
Flow (Peak, Computed)	69.52 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	69.05 ft³/s

Drainage Area	
SCS CN (Composite)	84.000
Area (User Defined)	54.317 acres
Maximum Retention (Pervious)	1.90 in
Maximum Retention (Pervious, 20 percent)	0.38 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.64 in
Runoff Volume (Pervious)	323,468.713 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	322,387.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.326 hours
Computational Time Increment	0.043 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	189.07 ft³/s
Unit peak time, Tp	0.217 hours
Unit receding limb, Tr	0.868 hours
Total unit time, Tb	1.085 hours

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 10 years
Label: Offsite DA-1C | Storm Event: 10 year
Scenario: Pre-Development 10 year

Storm Event	10 year
Return Event	10 years
Duration	24.000 hours
Depth	4.65 in
Time of Concentration (Composite)	0.326 hours
Area (User Defined)	54.317 acres

Computational Time Increment	0.043 hours
Time to Peak (Computed)	12.239 hours
Flow (Peak, Computed)	124.66 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	123.56 ft³/s

Drainage Area

SCS CN (Composite)	84.000
Area (User Defined)	54.317 acres
Maximum Retention (Pervious)	1.90 in
Maximum Retention (Pervious, 20 percent)	0.38 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	2.95 in
Runoff Volume (Pervious)	582,037.825 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	580,324.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.326 hours
Computational Time Increment	0.043 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	189.07 ft³/s
Unit peak time, Tp	0.217 hours
Unit receding limb, Tr	0.868 hours
Total unit time, Tb	1.085 hours

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 25 years
Label: Offsite DA-1C — Storm Event: 25 year
Scenario: Pre-Development 25 year

Storm Event	25 year
Return Event	25 years
Duration	24.000 hours
Depth	5.82 in
Time of Concentration (Composite)	0.326 hours
Area (User Defined)	54.317 acres

Computational Time Increment	0.043 hours
Time to Peak (Computed)	12.239 hours
Flow (Peak, Computed)	168.62 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	167.16 ft³/s

Drainage Area	
SCS CN (Composite)	84.000
Area (User Defined)	54.317 acres
Maximum Retention (Pervious)	1.90 in
Maximum Retention (Pervious, 20 percent)	0.38 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.03 in
Runoff Volume (Pervious)	794,267.429 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	792,067.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.326 hours
Computational Time Increment	0.043 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	189.07 ft³/s
Unit peak time, Tp	0.217 hours
Unit receding limb, Tr	0.868 hours
Total unit time, Tb	1.085 hours

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 25 years
Label: Offsite DA-1C | Storm Event: 25 year
Scenario: Pre-Development 25 year

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 100 years
Label: Offsite DA-1C — Storm Event: 100 year
Scenario: Pre-Development 100 year

Storm Event	100 year
Return Event	100 years
Duration	24.000 hours
Depth	8.17 in
Time of Concentration (Composite)	0.326 hours
Area (User Defined)	54.317 acres

Computational Time Increment	0.043 hours
Time to Peak (Computed)	12.239 hours
Flow (Peak, Computed)	257.07 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	255.86 ft³/s

Drainage Area	
SCS CN (Composite)	84.000
Area (User Defined)	54.317 acres
Maximum Retention (Pervious)	1.90 in
Maximum Retention (Pervious, 20 percent)	0.38 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.26 in
Runoff Volume (Pervious)	1,234,004.288 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1,230,839.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.326 hours
Computational Time Increment	0.043 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	189.07 ft³/s
Unit peak time, Tp	0.217 hours
Unit receding limb, Tr	0.868 hours
Total unit time, Tb	1.085 hours

SCS Unit Hydrograph Parameters

Existing Hydrologic Calculations Report

Subsection: Channel Routing Summary | Return Event: 1 years
Label: DA-1A | Storm Event: 1 year
Scenario: Pre-Development 1 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.250	12.300
Peak Flow (ft³/s)...	7.75	7.75

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	40,968.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	40,968.000 ft³

Subsection: Channel Routing Summary | Return Event: 2 years
Label: DA-1A | Storm Event: 2 year
Scenario: Pre-Development 2 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.250	12.300
Peak Flow (ft³/s)...	12.79	12.79

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	62,784.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	62,784.000 ft³

Existing Hydrologic Calculations Report

Subsection: Channel Routing Summary — Return Event: 10 years
Label: DA-1A — Storm Event: 10 year
Scenario: Pre-Development 10 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.250	12.300
Peak Flow (ft³/s)...	29.18	29.18

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	135,054.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	135,054.000 ft³

Subsection: Channel Routing Summary — Return Event: 25 years
Label: DA-1A — Storm Event: 25 year
Scenario: Pre-Development 25 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.200	12.250
Peak Flow (ft³/s)...	43.61	43.61

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	199,059.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	199,059.000 ft³

Existing Hydrologic Calculations Report

Subsection: Channel Routing Summary | Return Event: 100 years
Label: DA-1A | Storm Event: 100 year
Scenario: Pre-Development 100 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.200	12.250
Peak Flow (ft³/s)...	74.74	74.74

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	338,842.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	338,842.000 ft³

Subsection: Channel Routing Summary | Return Event: 1 years
Label: DA-1B | Storm Event: 1 year
Scenario: Pre-Development 1 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.450	12.500
Peak Flow (ft³/s)...	60.63	60.63

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	367,989.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	367,989.000 ft³

Existing Hydrologic Calculations Report

Subsection: Channel Routing Summary — Return Event: 2 years
Label: DA-1B — Storm Event: 2 year
Scenario: Pre-Development 2 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.400	12.450
Peak Flow (ft³/s)...	85.27	85.27

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	510,925.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	510,925.000 ft³

Subsection: Channel Routing Summary — Return Event: 10 years
Label: DA-1B — Storm Event: 10 year
Scenario: Pre-Development 10 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.400	12.450
Peak Flow (ft³/s)...	158.98	158.98

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	944,869.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	944,869.000 ft³

Existing Hydrologic Calculations Report

Subsection: Channel Routing Summary — Return Event: 25 years
Label: DA-1B — Storm Event: 25 year
Scenario: Pre-Development 25 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.400	12.450
Peak Flow (ft³/s)...	218.63	218.63

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	1,305,069.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	1,305,069.000 ft³

Subsection: Channel Routing Summary — Return Event: 100 years
Label: DA-1B — Storm Event: 100 year
Scenario: Pre-Development 100 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.400	12.450
Peak Flow (ft³/s)...	339.79	339.79

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	2,057,003.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	2,057,003.000 ft³

Existing Hydrologic Calculations Report

Subsection: Channel Routing Summary — Return Event: 1 years
Label: Pond Out — Storm Event: 1 year
Scenario: Pre-Development 1 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.350	12.400
Peak Flow (ft³/s)...	125.34	125.34

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	732,905.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	732,905.000 ft³

Subsection: Channel Routing Summary — Return Event: 2 years
Label: Pond Out — Storm Event: 2 year
Scenario: Pre-Development 2 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.300	12.350
Peak Flow (ft³/s)...	175.03	175.03

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	1,013,723.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	1,013,723.000 ft³

Existing Hydrologic Calculations Report

Subsection: Channel Routing Summary	Return Event: 10 years
Label: Pond Out	Storm Event: 10 year
Scenario: Pre-Development 10 year	

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.300	12.350
Peak Flow (ft³/s)...	324.21	324.21

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	1,863,629.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	1,863,629.000 ft³

Subsection: Channel Routing Summary	Return Event: 25 years
Label: Pond Out	Storm Event: 25 year
Scenario: Pre-Development 25 year	

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.300	12.350
Peak Flow (ft³/s)...	444.61	444.61

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	2,567,604.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	2,567,604.000 ft³

Existing Hydrologic Calculations Report

Subsection: Channel Routing Summary — Return Event: 100 years
Label: Pond Out — Storm Event: 100 year
Scenario: Pre-Development 100 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.300	12.350
Peak Flow (ft³/s)...	690.72	690.72

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	4,035,001.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	4,035,001.000 ft³

Subsection: Elevation-Volume-Flow Table (Channel) — Return Event: 1 years
Label: Reach EDA-1C — Storm Event: 1 year
Scenario: Pre-Development 1 year

Modified Puls Results Summary	
Length (Channel)	1,103.00 ft
Travel Time (Channel)	0.055 hours
Number of Sections	1
Length (Section)	1,103.00 ft
Flow (Weighted)	18.63 ft³/s
Overflow Channel	No Overflow Data
Elevation (Overflow)	296.00 ft

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Starting Water Surface)	292.00 ft
Volume (Starting, per section)	0.000 ft³
Flow (Out Starting)	0.00 ft³/s
Infiltration (Starting, per section)	0.00 ft³/s
Flow (Total Out Starting)	0.00 ft³/s

Existing Hydrologic Calculations Report

Subsection: Elevation-Volume-Flow Table (Channel)
Label: Reach EDA-1C
Scenario: Pre-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Initial Conditions	
Time Increment	0.050 hours

Number of sections = 1
Storage, Area, Infiltration (per 1,103.00 ft section)

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
292.00	0.00	0.000	0.000	0.00	0.00	0.00
292.01	0.06	111.000	0.254	0.00	0.06	1.29
292.08	1.91	900.000	0.263	0.00	1.91	11.92
292.16	6.11	1,835.000	0.273	0.00	6.11	26.51
292.24	12.08	2,806.000	0.284	0.00	12.08	43.26
292.32	19.64	3,812.000	0.294	0.00	19.64	61.99
292.40	28.67	4,853.000	0.304	0.00	28.67	82.60
292.48	39.12	5,930.000	0.314	0.00	39.12	105.01
292.56	50.94	7,042.000	0.324	0.00	50.94	129.18
292.64	64.10	8,189.000	0.334	0.00	64.10	155.09
292.72	78.59	9,371.000	0.344	0.00	78.59	182.71
292.80	94.39	10,589.000	0.354	0.00	94.39	212.04
292.88	111.51	11,842.000	0.365	0.00	111.51	243.08
292.96	129.93	13,130.000	0.375	0.00	129.93	275.82
293.04	149.66	14,454.000	0.385	0.00	149.66	310.26
293.12	170.71	15,813.000	0.395	0.00	170.71	346.41
293.20	193.09	17,207.000	0.405	0.00	193.09	384.27
293.28	216.79	18,636.000	0.415	0.00	216.79	423.86
293.36	241.83	20,101.000	0.425	0.00	241.83	465.18
293.44	268.22	21,601.000	0.436	0.00	268.22	508.24
293.52	295.98	23,137.000	0.446	0.00	295.98	553.05
293.60	325.10	24,707.000	0.456	0.00	325.10	599.63
293.68	355.61	26,313.000	0.466	0.00	355.61	647.98
293.76	387.52	27,954.000	0.476	0.00	387.52	698.13
293.84	420.85	29,631.000	0.486	0.00	420.85	750.08
293.92	455.60	31,343.000	0.496	0.00	455.60	803.85
294.00	491.78	33,090.000	0.506	0.00	491.78	859.45
294.08	529.43	34,872.000	0.517	0.00	529.43	916.90
294.16	568.54	36,690.000	0.527	0.00	568.54	976.21
294.24	609.14	38,543.000	0.537	0.00	609.14	1,037.40
294.32	651.24	40,432.000	0.547	0.00	651.24	1,100.48
294.40	694.85	42,355.000	0.557	0.00	694.85	1,165.46
294.48	739.99	44,314.000	0.567	0.00	739.99	1,232.37
294.56	786.67	46,308.000	0.577	0.00	786.67	1,301.21
294.64	834.92	48,338.000	0.587	0.00	834.92	1,372.01
294.72	884.74	50,403.000	0.598	0.00	884.74	1,444.77
294.80	936.15	52,503.000	0.608	0.00	936.15	1,519.52
294.88	989.17	54,638.000	0.618	0.00	989.17	1,596.26
294.96	1,043.81	56,809.000	0.628	0.00	1,043.81	1,675.02
295.04	1,100.09	59,015.000	0.638	0.00	1,100.09	1,755.81
295.12	1,158.02	61,256.000	0.648	0.00	1,158.02	1,838.65
295.20	1,217.63	63,533.000	0.658	0.00	1,217.63	1,923.55
295.28	1,278.91	65,845.000	0.668	0.00	1,278.91	2,010.52

Existing Hydrologic Calculations Report

Subsection: Elevation-Volume-Flow Table (Channel) Return Event: 1 years
Label: Reach EDA-1C Storm Event: 1 year
Scenario: Pre-Development 1 year

Number of sections = 1
Storage, Area, Infiltration (per 1,103.00 ft section)

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
295.36	1,341.90	68,192.000	0.679	0.00	1,341.90	2,099.59
295.44	1,406.60	70,574.000	0.689	0.00	1,406.60	2,190.76
295.52	1,473.03	72,992.000	0.699	0.00	1,473.03	2,284.06
295.60	1,541.21	75,445.000	0.709	0.00	1,541.21	2,379.49
295.68	1,611.15	77,934.000	0.719	0.00	1,611.15	2,477.08
295.76	1,682.87	80,457.000	0.729	0.00	1,682.87	2,576.84
295.84	1,756.38	83,016.000	0.739	0.00	1,756.38	2,678.79
295.92	1,831.70	85,610.000	0.750	0.00	1,831.70	2,782.93
296.00	1,908.85	88,240.000	0.760	0.00	1,908.85	2,889.29

Subsection: Channel Routing Summary Return Event: 1 years
Label: Reach EDA-1C Storm Event: 1 year
Scenario: Pre-Development 1 year

Modified Puls Results Summary	
Length (Channel)	1,103.00 ft
Travel Time (Channel)	0.055 hours
Number of Sections	1
Length (Section)	1,103.00 ft
Flow (Weighted)	18.63 ft^3/s
Overflow Channel	No Overflow Data
Elevation (Overflow)	296.00 ft

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Starting Water Surface)	292.00 ft
Volume (Starting, per section)	0.000 ft^3
Flow (Out Starting)	0.00 ft^3/s
Infiltration (Starting, per section)	0.00 ft^3/s
Flow (Total Out Starting)	0.00 ft^3/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	50.32 ft^3/s	Time to Peak (In)	12.250 hours
Flow (Peak Out)	49.74 ft^3/s	Time to Peak (Out)	12.250 hours

Mass Balance (ft^3)	
Volume (Initial)	0.000 ft^3

Existing Hydrologic Calculations Report

Subsection: Channel Routing Summary
Label: Reach EDA-1C
Scenario: Pre-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Mass Balance (ft^3)	
Volume (Total Inflow)	236,138.798 ft^3
Volume (Total Infiltration)	0.000 ft^3
Volume (Total Outlet Outflow)	235,626.624 ft^3
Volume (Retained)	363.099 ft^3
Volume (Unrouted)	-149.074 ft^3
Error (Mass Balance)	0.1 %

Subsection: Elevation-Volume-Flow Table (Channel)
Label: Reach EDA-1C
Scenario: Pre-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Modified Puls Results Summary	
Length (Channel)	1,103.00 ft
Travel Time (Channel)	0.049 hours
Number of Sections	1
Length (Section)	1,103.00 ft
Flow (Weighted)	25.53 ft^3/s
Overflow Channel	No Overflow Data
Elevation (Overflow)	296.00 ft

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Starting Water Surface)	292.00 ft
Volume (Starting, per section)	0.000 ft^3
Flow (Out Starting)	0.00 ft^3/s
Infiltration (Starting, per section)	0.00 ft^3/s
Flow (Total Out Starting)	0.00 ft^3/s
Time Increment	0.050 hours

Number of sections = 1
Storage, Area, Infiltration (per 1,103.00 ft section)

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
292.00	0.00	0.000	0.000	0.00	0.00	0.00
292.01	0.06	111.000	0.254	0.00	0.06	1.29
292.08	1.91	900.000	0.263	0.00	1.91	11.92
292.16	6.11	1,835.000	0.273	0.00	6.11	26.51
292.24	12.08	2,806.000	0.284	0.00	12.08	43.26
292.32	19.64	3,812.000	0.294	0.00	19.64	61.99
292.40	28.67	4,853.000	0.304	0.00	28.67	82.60

Existing Hydrologic Calculations Report

Subsection: Elevation-Volume-Flow Table (Channel) Return Event: 2 years
Label: Reach EDA-1C Storm Event: 2 year
Scenario: Pre-Development 2 year

Number of sections = 1
Storage, Area, Infiltration (per 1,103.00 ft section)

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
292.48	39.12	5,930.000	0.314	0.00	39.12	105.01
292.56	50.94	7,042.000	0.324	0.00	50.94	129.18
292.64	64.10	8,189.000	0.334	0.00	64.10	155.09
292.72	78.59	9,371.000	0.344	0.00	78.59	182.71
292.80	94.39	10,589.000	0.354	0.00	94.39	212.04
292.88	111.51	11,842.000	0.365	0.00	111.51	243.08
292.96	129.93	13,130.000	0.375	0.00	129.93	275.82
293.04	149.66	14,454.000	0.385	0.00	149.66	310.26
293.12	170.71	15,813.000	0.395	0.00	170.71	346.41
293.20	193.09	17,207.000	0.405	0.00	193.09	384.27
293.28	216.79	18,636.000	0.415	0.00	216.79	423.86
293.36	241.83	20,101.000	0.425	0.00	241.83	465.18
293.44	268.22	21,601.000	0.436	0.00	268.22	508.24
293.52	295.98	23,137.000	0.446	0.00	295.98	553.05
293.60	325.10	24,707.000	0.456	0.00	325.10	599.63
293.68	355.61	26,313.000	0.466	0.00	355.61	647.98
293.76	387.52	27,954.000	0.476	0.00	387.52	698.13
293.84	420.85	29,631.000	0.486	0.00	420.85	750.08
293.92	455.60	31,343.000	0.496	0.00	455.60	803.85
294.00	491.78	33,090.000	0.506	0.00	491.78	859.45
294.08	529.43	34,872.000	0.517	0.00	529.43	916.90
294.16	568.54	36,690.000	0.527	0.00	568.54	976.21
294.24	609.14	38,543.000	0.537	0.00	609.14	1,037.40
294.32	651.24	40,432.000	0.547	0.00	651.24	1,100.48
294.40	694.85	42,355.000	0.557	0.00	694.85	1,165.46
294.48	739.99	44,314.000	0.567	0.00	739.99	1,232.37
294.56	786.67	46,308.000	0.577	0.00	786.67	1,301.21
294.64	834.92	48,338.000	0.587	0.00	834.92	1,372.01
294.72	884.74	50,403.000	0.598	0.00	884.74	1,444.77
294.80	936.15	52,503.000	0.608	0.00	936.15	1,519.52
294.88	989.17	54,638.000	0.618	0.00	989.17	1,596.26
294.96	1,043.81	56,809.000	0.628	0.00	1,043.81	1,675.02
295.04	1,100.09	59,015.000	0.638	0.00	1,100.09	1,755.81
295.12	1,158.02	61,256.000	0.648	0.00	1,158.02	1,838.65
295.20	1,217.63	63,533.000	0.658	0.00	1,217.63	1,923.55
295.28	1,278.91	65,845.000	0.668	0.00	1,278.91	2,010.52
295.36	1,341.90	68,192.000	0.679	0.00	1,341.90	2,099.59
295.44	1,406.60	70,574.000	0.689	0.00	1,406.60	2,190.76
295.52	1,473.03	72,992.000	0.699	0.00	1,473.03	2,284.06
295.60	1,541.21	75,445.000	0.709	0.00	1,541.21	2,379.49
295.68	1,611.15	77,934.000	0.719	0.00	1,611.15	2,477.08
295.76	1,682.87	80,457.000	0.729	0.00	1,682.87	2,576.84
295.84	1,756.38	83,016.000	0.739	0.00	1,756.38	2,678.79
295.92	1,831.70	85,610.000	0.750	0.00	1,831.70	2,782.93
296.00	1,908.85	88,240.000	0.760	0.00	1,908.85	2,889.29

Existing Hydrologic Calculations Report

Subsection: Channel Routing Summary — Return Event: 2 years
Label: Reach EDA-1C — Storm Event: 2 year
Scenario: Pre-Development 2 year

Modified Puls Results Summary	
Length (Channel)	1,103.00 ft
Travel Time (Channel)	0.049 hours
Number of Sections	1
Length (Section)	1,103.00 ft
Flow (Weighted)	25.53 ft³/s
Overflow Channel	No Overflow Data
Elevation (Overflow)	296.00 ft

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Starting Water Surface)	292.00 ft
Volume (Starting, per section)	0.000 ft³
Flow (Out Starting)	0.00 ft³/s
Infiltration (Starting, per section)	0.00 ft³/s
Flow (Total Out Starting)	0.00 ft³/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	69.05 ft³/s	Time to Peak (In)	12.250 hours
Flow (Peak Out)	68.74 ft³/s	Time to Peak (Out)	12.250 hours

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	322,387.394 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	321,756.514 ft³
Volume (Retained)	440.359 ft³
Volume (Unrouted)	-190.521 ft³
Error (Mass Balance)	0.1 %

Subsection: Elevation-Volume-Flow Table (Channel) — Return Event: 10 years
Label: Reach EDA-1C — Storm Event: 10 year
Scenario: Pre-Development 10 year

Modified Puls Results Summary	
Length (Channel)	1,103.00 ft
Travel Time (Channel)	0.040 hours
Number of Sections	1
Length (Section)	1,103.00 ft

Existing Hydrologic Calculations Report

Subsection: Elevation-Volume-Flow Table (Channel)
Label: Reach EDA-1C
Scenario: Pre-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Modified Puls Results Summary	
Flow (Weighted)	45.35 ft³/s
Overflow Channel	No Overflow Data
Elevation (Overflow)	296.00 ft

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Starting Water Surface)	292.00 ft
Volume (Starting, per section)	0.000 ft³
Flow (Out Starting)	0.00 ft³/s
Infiltration (Starting, per section)	0.00 ft³/s
Flow (Total Out Starting)	0.00 ft³/s
Time Increment	0.050 hours

Number of sections = 1
Storage, Area, Infiltration (per 1,103.00 ft section)

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
292.00	0.00	0.000	0.000	0.00	0.00	0.00
292.01	0.06	111.000	0.254	0.00	0.06	1.29
292.08	1.91	900.000	0.263	0.00	1.91	11.92
292.16	6.11	1,835.000	0.273	0.00	6.11	26.51
292.24	12.08	2,806.000	0.284	0.00	12.08	43.26
292.32	19.64	3,812.000	0.294	0.00	19.64	61.99
292.40	28.67	4,853.000	0.304	0.00	28.67	82.60
292.48	39.12	5,930.000	0.314	0.00	39.12	105.01
292.56	50.94	7,042.000	0.324	0.00	50.94	129.18
292.64	64.10	8,189.000	0.334	0.00	64.10	155.09
292.72	78.59	9,371.000	0.344	0.00	78.59	182.71
292.80	94.39	10,589.000	0.354	0.00	94.39	212.04
292.88	111.51	11,842.000	0.365	0.00	111.51	243.08
292.96	129.93	13,130.000	0.375	0.00	129.93	275.82
293.04	149.66	14,454.000	0.385	0.00	149.66	310.26
293.12	170.71	15,813.000	0.395	0.00	170.71	346.41
293.20	193.09	17,207.000	0.405	0.00	193.09	384.27
293.28	216.79	18,636.000	0.415	0.00	216.79	423.86
293.36	241.83	20,101.000	0.425	0.00	241.83	465.18
293.44	268.22	21,601.000	0.436	0.00	268.22	508.24
293.52	295.98	23,137.000	0.446	0.00	295.98	553.05
293.60	325.10	24,707.000	0.456	0.00	325.10	599.63
293.68	355.61	26,313.000	0.466	0.00	355.61	647.98
293.76	387.52	27,954.000	0.476	0.00	387.52	698.13
293.84	420.85	29,631.000	0.486	0.00	420.85	750.08

Existing Hydrologic Calculations Report

Subsection: Elevation-Volume-Flow Table (Channel) Return Event: 10 years
Label: Reach EDA-1C Storm Event: 10 year
Scenario: Pre-Development 10 year

Number of sections = 1
Storage, Area, Infiltration (per 1,103.00 ft section)

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
293.92	455.60	31,343.000	0.496	0.00	455.60	803.85
294.00	491.78	33,090.000	0.506	0.00	491.78	859.45
294.08	529.43	34,872.000	0.517	0.00	529.43	916.90
294.16	568.54	36,690.000	0.527	0.00	568.54	976.21
294.24	609.14	38,543.000	0.537	0.00	609.14	1,037.40
294.32	651.24	40,432.000	0.547	0.00	651.24	1,100.48
294.40	694.85	42,355.000	0.557	0.00	694.85	1,165.46
294.48	739.99	44,314.000	0.567	0.00	739.99	1,232.37
294.56	786.67	46,308.000	0.577	0.00	786.67	1,301.21
294.64	834.92	48,338.000	0.587	0.00	834.92	1,372.01
294.72	884.74	50,403.000	0.598	0.00	884.74	1,444.77
294.80	936.15	52,503.000	0.608	0.00	936.15	1,519.52
294.88	989.17	54,638.000	0.618	0.00	989.17	1,596.26
294.96	1,043.81	56,809.000	0.628	0.00	1,043.81	1,675.02
295.04	1,100.09	59,015.000	0.638	0.00	1,100.09	1,755.81
295.12	1,158.02	61,256.000	0.648	0.00	1,158.02	1,838.65
295.20	1,217.63	63,533.000	0.658	0.00	1,217.63	1,923.55
295.28	1,278.91	65,845.000	0.668	0.00	1,278.91	2,010.52
295.36	1,341.90	68,192.000	0.679	0.00	1,341.90	2,099.59
295.44	1,406.60	70,574.000	0.689	0.00	1,406.60	2,190.76
295.52	1,473.03	72,992.000	0.699	0.00	1,473.03	2,284.06
295.60	1,541.21	75,445.000	0.709	0.00	1,541.21	2,379.49
295.68	1,611.15	77,934.000	0.719	0.00	1,611.15	2,477.08
295.76	1,682.87	80,457.000	0.729	0.00	1,682.87	2,576.84
295.84	1,756.38	83,016.000	0.739	0.00	1,756.38	2,678.79
295.92	1,831.70	85,610.000	0.750	0.00	1,831.70	2,782.93
296.00	1,908.85	88,240.000	0.760	0.00	1,908.85	2,889.29

Subsection: Channel Routing Summary Return Event: 10 years
Label: Reach EDA-1C Storm Event: 10 year
Scenario: Pre-Development 10 year

Modified Puls Results Summary	
Length (Channel)	1,103.00 ft
Travel Time (Channel)	0.040 hours
Number of Sections	1
Length (Section)	1,103.00 ft
Flow (Weighted)	45.35 ft^3/s
Overflow Channel	No Overflow Data
Elevation (Overflow)	296.00 ft

Infiltration	
Infiltration Method (Computed)	No Infiltration

Existing Hydrologic Calculations Report

Subsection: Channel Routing Summary — Return Event: 10 years
Label: Reach EDA-1C — Storm Event: 10 year
Scenario: Pre-Development 10 year

Initial Conditions

Elevation (Starting Water Surface)	292.00 ft
Volume (Starting, per section)	0.000 ft³
Flow (Out Starting)	0.00 ft³/s
Infiltration (Starting, per section)	0.00 ft³/s
Flow (Total Out Starting)	0.00 ft³/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary

Flow (Peak In)	123.56 ft³/s	Time to Peak (In)	12.250 hours
Flow (Peak Out)	123.82 ft³/s	Time to Peak (Out)	12.250 hours

Mass Balance (ft³)

Volume (Initial)	0.000 ft³
Volume (Total Inflow)	580,324.261 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	579,396.415 ft³
Volume (Retained)	629.223 ft³
Volume (Unrouted)	-298.622 ft³
Error (Mass Balance)	0.1 %

Subsection: Elevation-Volume-Flow Table (Channel) — Return Event: 25 years
Label: Reach EDA-1C — Storm Event: 25 year
Scenario: Pre-Development 25 year

Modified Puls Results Summary

Length (Channel)	1,103.00 ft
Travel Time (Channel)	0.036 hours
Number of Sections	1
Length (Section)	1,103.00 ft
Flow (Weighted)	60.86 ft³/s
Overflow Channel	No Overflow Data
Elevation (Overflow)	296.00 ft

Infiltration

Infiltration Method (Computed)	No Infiltration

Initial Conditions

Elevation (Starting Water Surface)	292.00 ft
Volume (Starting, per section)	0.000 ft³

Existing Hydrologic Calculations Report

Subsection: Elevation-Volume-Flow Table (Channel)
Label: Reach EDA-1C
Scenario: Pre-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Initial Conditions	
Flow (Out Starting)	0.00 ft³/s
Infiltration (Starting, per section)	0.00 ft³/s
Flow (Total Out Starting)	0.00 ft³/s
Time Increment	0.050 hours

Number of sections = 1
Storage, Area, Infiltration (per 1,103.00 ft section)

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
292.00	0.00	0.000	0.000	0.00	0.00	0.00
292.01	0.06	111.000	0.254	0.00	0.06	1.29
292.08	1.91	900.000	0.263	0.00	1.91	11.92
292.16	6.11	1,835.000	0.273	0.00	6.11	26.51
292.24	12.08	2,806.000	0.284	0.00	12.08	43.26
292.32	19.64	3,812.000	0.294	0.00	19.64	61.99
292.40	28.67	4,853.000	0.304	0.00	28.67	82.60
292.48	39.12	5,930.000	0.314	0.00	39.12	105.01
292.56	50.94	7,042.000	0.324	0.00	50.94	129.18
292.64	64.10	8,189.000	0.334	0.00	64.10	155.09
292.72	78.59	9,371.000	0.344	0.00	78.59	182.71
292.80	94.39	10,589.000	0.354	0.00	94.39	212.04
292.88	111.51	11,842.000	0.365	0.00	111.51	243.08
292.96	129.93	13,130.000	0.375	0.00	129.93	275.82
293.04	149.66	14,454.000	0.385	0.00	149.66	310.26
293.12	170.71	15,813.000	0.395	0.00	170.71	346.41
293.20	193.09	17,207.000	0.405	0.00	193.09	384.27
293.28	216.79	18,636.000	0.415	0.00	216.79	423.86
293.36	241.83	20,101.000	0.425	0.00	241.83	465.18
293.44	268.22	21,601.000	0.436	0.00	268.22	508.24
293.52	295.98	23,137.000	0.446	0.00	295.98	553.05
293.60	325.10	24,707.000	0.456	0.00	325.10	599.63
293.68	355.61	26,313.000	0.466	0.00	355.61	647.98
293.76	387.52	27,954.000	0.476	0.00	387.52	698.13
293.84	420.85	29,631.000	0.486	0.00	420.85	750.08
293.92	455.60	31,343.000	0.496	0.00	455.60	803.85
294.00	491.78	33,090.000	0.506	0.00	491.78	859.45
294.08	529.43	34,872.000	0.517	0.00	529.43	916.90
294.16	568.54	36,690.000	0.527	0.00	568.54	976.21
294.24	609.14	38,543.000	0.537	0.00	609.14	1,037.40
294.32	651.24	40,432.000	0.547	0.00	651.24	1,100.48
294.40	694.85	42,355.000	0.557	0.00	694.85	1,165.46
294.48	739.99	44,314.000	0.567	0.00	739.99	1,232.37
294.56	786.67	46,308.000	0.577	0.00	786.67	1,301.21
294.64	834.92	48,338.000	0.587	0.00	834.92	1,372.01
294.72	884.74	50,403.000	0.598	0.00	884.74	1,444.77
294.80	936.15	52,503.000	0.608	0.00	936.15	1,519.52
294.88	989.17	54,638.000	0.618	0.00	989.17	1,596.26
294.96	1,043.81	56,809.000	0.628	0.00	1,043.81	1,675.02

Existing Hydrologic Calculations Report

Subsection: Elevation-Volume-Flow Table (Channel) Return Event: 25 years
Label: Reach EDA-1C Storm Event: 25 year
Scenario: Pre-Development 25 year

Number of sections = 1
Storage, Area, Infiltration (per 1,103.00 ft section)

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
295.04	1,100.09	59,015.000	0.638	0.00	1,100.09	1,755.81
295.12	1,158.02	61,256.000	0.648	0.00	1,158.02	1,838.65
295.20	1,217.63	63,533.000	0.658	0.00	1,217.63	1,923.55
295.28	1,278.91	65,845.000	0.668	0.00	1,278.91	2,010.52
295.36	1,341.90	68,192.000	0.679	0.00	1,341.90	2,099.59
295.44	1,406.60	70,574.000	0.689	0.00	1,406.60	2,190.76
295.52	1,473.03	72,992.000	0.699	0.00	1,473.03	2,284.06
295.60	1,541.21	75,445.000	0.709	0.00	1,541.21	2,379.49
295.68	1,611.15	77,934.000	0.719	0.00	1,611.15	2,477.08
295.76	1,682.87	80,457.000	0.729	0.00	1,682.87	2,576.84
295.84	1,756.38	83,016.000	0.739	0.00	1,756.38	2,678.79
295.92	1,831.70	85,610.000	0.750	0.00	1,831.70	2,782.93
296.00	1,908.85	88,240.000	0.760	0.00	1,908.85	2,889.29

Subsection: Channel Routing Summary Return Event: 25 years
Label: Reach EDA-1C Storm Event: 25 year
Scenario: Pre-Development 25 year

Modified Puls Results Summary	
Length (Channel)	1,103.00 ft
Travel Time (Channel)	0.036 hours
Number of Sections	1
Length (Section)	1,103.00 ft
Flow (Weighted)	60.86 ft^3/s
Overflow Channel	No Overflow Data
Elevation (Overflow)	296.00 ft

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Starting Water Surface)	292.00 ft
Volume (Starting, per section)	0.000 ft^3
Flow (Out Starting)	0.00 ft^3/s
Infiltration (Starting, per section)	0.00 ft^3/s
Flow (Total Out Starting)	0.00 ft^3/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	167.16 ft^3/s	Time to Peak (In)	12.200 hours

Existing Hydrologic Calculations Report

Subsection: Channel Routing Summary | Return Event: 25 years
Label: Reach EDA-1C | Storm Event: 25 year
Scenario: Pre-Development 25 year

Inflow/Outflow Hydrograph Summary			
Flow (Peak Out)	167.70 ft³/s	Time to Peak (Out)	12.250 hours

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	792,067.349 ft³
Volume (Total Infiltration)	0.000 ft³
Volume (Total Outlet Outflow)	791,007.515 ft³
Volume (Retained)	694.168 ft³
Volume (Unrouted)	-365.666 ft³
Error (Mass Balance)	0.0 %

Subsection: Elevation-Volume-Flow Table (Channel) | Return Event: 100 years
Label: Reach EDA-1C | Storm Event: 100 year
Scenario: Pre-Development 100 year

Modified Puls Results Summary	
Length (Channel)	1,103.00 ft
Travel Time (Channel)	0.031 hours
Number of Sections	1
Length (Section)	1,103.00 ft
Flow (Weighted)	91.51 ft³/s
Overflow Channel	No Overflow Data
Elevation (Overflow)	296.00 ft

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Starting Water Surface)	292.00 ft
Volume (Starting, per section)	0.000 ft³
Flow (Out Starting)	0.00 ft³/s
Infiltration (Starting, per section)	0.00 ft³/s
Flow (Total Out Starting)	0.00 ft³/s
Time Increment	0.050 hours

Number of sections = 1
Storage, Area, Infiltration (per 1,103.00 ft section)

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
292.00	0.00	0.000	0.000	0.00	0.00	0.00
292.01	0.06	111.000	0.254	0.00	0.06	1.29
292.08	1.91	900.000	0.263	0.00	1.91	11.92

Existing Hydrologic Calculations Report

Subsection: Elevation-Volume-Flow Table (Channel)　　Return Event: 100 years
Label: Reach EDA-1C　　Storm Event: 100 year
Scenario: Pre-Development 100 year

Number of sections = 1
Storage, Area, Infiltration (per 1,103.00 ft section)

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
292.16	6.11	1,835.000	0.273	0.00	6.11	26.51
292.24	12.08	2,806.000	0.284	0.00	12.08	43.26
292.32	19.64	3,812.000	0.294	0.00	19.64	61.99
292.40	28.67	4,853.000	0.304	0.00	28.67	82.60
292.48	39.12	5,930.000	0.314	0.00	39.12	105.01
292.56	50.94	7,042.000	0.324	0.00	50.94	129.18
292.64	64.10	8,189.000	0.334	0.00	64.10	155.09
292.72	78.59	9,371.000	0.344	0.00	78.59	182.71
292.80	94.39	10,589.000	0.354	0.00	94.39	212.04
292.88	111.51	11,842.000	0.365	0.00	111.51	243.08
292.96	129.93	13,130.000	0.375	0.00	129.93	275.82
293.04	149.66	14,454.000	0.385	0.00	149.66	310.26
293.12	170.71	15,813.000	0.395	0.00	170.71	346.41
293.20	193.09	17,207.000	0.405	0.00	193.09	384.27
293.28	216.79	18,636.000	0.415	0.00	216.79	423.86
293.36	241.83	20,101.000	0.425	0.00	241.83	465.18
293.44	268.22	21,601.000	0.436	0.00	268.22	508.24
293.52	295.98	23,137.000	0.446	0.00	295.98	553.05
293.60	325.10	24,707.000	0.456	0.00	325.10	599.63
293.68	355.61	26,313.000	0.466	0.00	355.61	647.98
293.76	387.52	27,954.000	0.476	0.00	387.52	698.13
293.84	420.85	29,631.000	0.486	0.00	420.85	750.08
293.92	455.60	31,343.000	0.496	0.00	455.60	803.85
294.00	491.78	33,090.000	0.506	0.00	491.78	859.45
294.08	529.43	34,872.000	0.517	0.00	529.43	916.90
294.16	568.54	36,690.000	0.527	0.00	568.54	976.21
294.24	609.14	38,543.000	0.537	0.00	609.14	1,037.40
294.32	651.24	40,432.000	0.547	0.00	651.24	1,100.48
294.40	694.85	42,355.000	0.557	0.00	694.85	1,165.46
294.48	739.99	44,314.000	0.567	0.00	739.99	1,232.37
294.56	786.67	46,308.000	0.577	0.00	786.67	1,301.21
294.64	834.92	48,338.000	0.587	0.00	834.92	1,372.01
294.72	884.74	50,403.000	0.598	0.00	884.74	1,444.77
294.80	936.15	52,503.000	0.608	0.00	936.15	1,519.52
294.88	989.17	54,638.000	0.618	0.00	989.17	1,596.26
294.96	1,043.81	56,809.000	0.628	0.00	1,043.81	1,675.02
295.04	1,100.09	59,015.000	0.638	0.00	1,100.09	1,755.81
295.12	1,158.02	61,256.000	0.648	0.00	1,158.02	1,838.65
295.20	1,217.63	63,533.000	0.658	0.00	1,217.63	1,923.55
295.28	1,278.91	65,845.000	0.668	0.00	1,278.91	2,010.52
295.36	1,341.90	68,192.000	0.679	0.00	1,341.90	2,099.59
295.44	1,406.60	70,574.000	0.689	0.00	1,406.60	2,190.76
295.52	1,473.03	72,992.000	0.699	0.00	1,473.03	2,284.06
295.60	1,541.21	75,445.000	0.709	0.00	1,541.21	2,379.49
295.68	1,611.15	77,934.000	0.719	0.00	1,611.15	2,477.08
295.76	1,682.87	80,457.000	0.729	0.00	1,682.87	2,576.84
295.84	1,756.38	83,016.000	0.739	0.00	1,756.38	2,678.79

Existing Hydrologic Calculations Report

Subsection: Elevation-Volume-Flow Table (Channel) | Return Event: 100 years
Label: Reach EDA-1C | Storm Event: 100 year
Scenario: Pre-Development 100 year

Number of sections = 1
Storage, Area, Infiltration (per 1,103.00 ft section)

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
295.92	1,831.70	85,610.000	0.750	0.00	1,831.70	2,782.93
296.00	1,908.85	88,240.000	0.760	0.00	1,908.85	2,889.29

Subsection: Channel Routing Summary | Return Event: 100 years
Label: Reach EDA-1C | Storm Event: 100 year
Scenario: Pre-Development 100 year

Modified Puls Results Summary	
Length (Channel)	1,103.00 ft
Travel Time (Channel)	0.031 hours
Number of Sections	1
Length (Section)	1,103.00 ft
Flow (Weighted)	91.51 ft^3/s
Overflow Channel	No Overflow Data
Elevation (Overflow)	296.00 ft

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions	
Elevation (Starting Water Surface)	292.00 ft
Volume (Starting, per section)	0.000 ft^3
Flow (Out Starting)	0.00 ft^3/s
Infiltration (Starting, per section)	0.00 ft^3/s
Flow (Total Out Starting)	0.00 ft^3/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	255.86 ft^3/s	Time to Peak (In)	12.200 hours
Flow (Peak Out)	255.10 ft^3/s	Time to Peak (Out)	12.250 hours

Mass Balance (ft^3)	
Volume (Initial)	0.000 ft^3
Volume (Total Inflow)	1,230,839.237 ft^3
Volume (Total Infiltration)	0.000 ft^3
Volume (Total Outlet Outflow)	1,229,517.172 ft^3
Volume (Retained)	823.202 ft^3
Volume (Unrouted)	-498.863 ft^3

Subsection: Channel Routing Summary | Return Event: 100 years
Label: Reach EDA-1C | Storm Event: 100 year
Scenario: Pre-Development 100 year

Mass Balance (ft^3)	
Error (Mass Balance)	0.0 %

Subsection: Addition Summary | Return Event: 1 years
Label: DP-1 | Storm Event: 1 year
Scenario: Pre-Development 1 year

Summary for Hydrograph Addition at 'DP-1'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	EDA 1A
Pond Out	Junction 1D
DA-1A	Junction 1A

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	EDA 1A	34,142.537	12.100	9.76
Flow (From)	Pond Out	732,904.957	12.400	125.34
Flow (From)	DA-1A	40,968.471	12.300	7.75
Flow (In)	DP-1	807,381.178	12.350	136.60

Subsection: Addition Summary | Return Event: 2 years
Label: DP-1 | Storm Event: 2 year
Scenario: Pre-Development 2 year

Summary for Hydrograph Addition at 'DP-1'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	EDA 1A
Pond Out	Junction 1D
DA-1A	Junction 1A

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	EDA 1A	47,384.223	12.100	13.59
Flow (From)	Pond Out	1,013,723.281	12.350	175.03
Flow (From)	DA-1A	62,784.416	12.300	12.79
Flow (In)	DP-1	1,123,069.668	12.350	193.18

Subsection: Addition Summary | Return Event: 10 years
Label: DP-1 | Storm Event: 10 year
Scenario: Pre-Development 10 year

Summary for Hydrograph Addition at 'DP-1'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	EDA 1A
Pond Out	Junction 1D

Existing Hydrologic Calculations Report

Subsection: Addition Summary — Return Event: 10 years
Label: DP-1 — Storm Event: 10 year
Scenario: Pre-Development 10 year

Summary for Hydrograph Addition at 'DP-1'

Upstream Link	Upstream Node
DA-1A	Junction 1A

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	EDA 1A	87,569.638	12.100	24.88
Flow (From)	Pond Out	1,863,628.809	12.350	324.21
Flow (From)	DA-1A	135,054.065	12.300	29.18
Flow (In)	DP-1	2,084,909.238	12.350	361.90

Subsection: Addition Summary — Return Event: 25 years
Label: DP-1 — Storm Event: 25 year
Scenario: Pre-Development 25 year

Summary for Hydrograph Addition at 'DP-1'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	EDA 1A
Pond Out	Junction 1D
DA-1A	Junction 1A

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	EDA 1A	120,916.573	12.100	33.93
Flow (From)	Pond Out	2,567,604.059	12.350	444.61
Flow (From)	DA-1A	199,059.083	12.250	43.61
Flow (In)	DP-1	2,885,830.623	12.350	498.80

Subsection: Addition Summary — Return Event: 100 years
Label: DP-1 — Storm Event: 100 year
Scenario: Pre-Development 100 year

Summary for Hydrograph Addition at 'DP-1'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	EDA 1A
Pond Out	Junction 1D
DA-1A	Junction 1A

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	EDA 1A	190,516.362	12.100	52.20
Flow (From)	Pond Out	4,035,000.929	12.350	690.72
Flow (From)	DA-1A	338,841.633	12.250	74.74

Existing Hydrologic Calculations Report

Subsection: Addition Summary
Label: DP-1
Scenario: Pre-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (In)	DP-1	4,561,802.439	12.350	779.46

Subsection: Addition Summary
Label: Junction 1A
Scenario: Pre-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Summary for Hydrograph Addition at 'Junction 1A'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1A

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Offsite DA-1A	40,968.471	12.250	7.75
Flow (In)	Junction 1A	40,968.471	12.250	7.75

Subsection: Addition Summary
Label: Junction 1A
Scenario: Pre-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Summary for Hydrograph Addition at 'Junction 1A'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1A

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Offsite DA-1A	62,784.416	12.250	12.79
Flow (In)	Junction 1A	62,784.416	12.250	12.79

Subsection: Addition Summary
Label: Junction 1A
Scenario: Pre-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Summary for Hydrograph Addition at 'Junction 1A'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1A

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Offsite DA-1A	135,054.065	12.250	29.18
Flow (In)	Junction 1A	135,054.065	12.250	29.18

Existing Hydrologic Calculations Report

Subsection: Addition Summary | Return Event: 25 years
Label: Junction 1A | Storm Event: 25 year
Scenario: Pre-Development 25 year

Summary for Hydrograph Addition at 'Junction 1A'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1A

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Offsite DA-1A	199,059.083	12.200	43.61
Flow (In)	Junction 1A	199,059.083	12.200	43.61

Subsection: Addition Summary | Return Event: 100 years
Label: Junction 1A | Storm Event: 100 year
Scenario: Pre-Development 100 year

Summary for Hydrograph Addition at 'Junction 1A'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1A

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Offsite DA-1A	338,841.633	12.200	74.74
Flow (In)	Junction 1A	338,841.633	12.200	74.74

Subsection: Addition Summary | Return Event: 1 years
Label: Junction 1B | Storm Event: 1 year
Scenario: Pre-Development 1 year

Summary for Hydrograph Addition at 'Junction 1B'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1B

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Offsite DA-1B	367,988.537	12.450	60.63
Flow (In)	Junction 1B	367,988.537	12.450	60.63

Subsection: Addition Summary | Return Event: 2 years
Label: Junction 1B | Storm Event: 2 year
Scenario: Pre-Development 2 year

Summary for Hydrograph Addition at 'Junction 1B'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1B

Subsection: Addition Summary
Label: Junction 1B
Scenario: Pre-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Offsite DA-1B	510,924.703	12.400	85.27
Flow (In)	Junction 1B	510,924.703	12.400	85.27

Subsection: Addition Summary
Label: Junction 1B
Scenario: Pre-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Summary for Hydrograph Addition at 'Junction 1B'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1B

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Offsite DA-1B	944,868.619	12.400	158.98
Flow (In)	Junction 1B	944,868.619	12.400	158.98

Subsection: Addition Summary
Label: Junction 1B
Scenario: Pre-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Summary for Hydrograph Addition at 'Junction 1B'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1B

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Offsite DA-1B	1,305,069.111	12.400	218.63
Flow (In)	Junction 1B	1,305,069.111	12.400	218.63

Subsection: Addition Summary
Label: Junction 1B
Scenario: Pre-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Summary for Hydrograph Addition at 'Junction 1B'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1B

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Offsite DA-1B	2,057,002.715	12.400	339.79

Subsection: Addition Summary — Return Event: 100 years
Label: Junction 1B — Storm Event: 100 year
Scenario: Pre-Development 100 year

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (In)	Junction 1B	2,057,002.715	12.400	339.79

Subsection: Addition Summary — Return Event: 1 years
Label: Junction 1C — Storm Event: 1 year
Scenario: Pre-Development 1 year

Summary for Hydrograph Addition at 'Junction 1C'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1C

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Offsite DA-1C	236,138.798	12.250	50.32
Flow (In)	Junction 1C	236,138.798	12.250	50.32

Subsection: Addition Summary — Return Event: 2 years
Label: Junction 1C — Storm Event: 2 year
Scenario: Pre-Development 2 year

Summary for Hydrograph Addition at 'Junction 1C'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1C

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Offsite DA-1C	322,387.394	12.250	69.05
Flow (In)	Junction 1C	322,387.394	12.250	69.05

Subsection: Addition Summary — Return Event: 10 years
Label: Junction 1C — Storm Event: 10 year
Scenario: Pre-Development 10 year

Summary for Hydrograph Addition at 'Junction 1C'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1C

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Offsite DA-1C	580,324.261	12.250	123.56
Flow (In)	Junction 1C	580,324.261	12.250	123.56

Subsection: Addition Summary
Label: Junction 1C
Scenario: Pre-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Summary for Hydrograph Addition at 'Junction 1C'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1C

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Offsite DA-1C	792,067.349	12.200	167.16
Flow (In)	Junction 1C	792,067.349	12.200	167.16

Subsection: Addition Summary
Label: Junction 1C
Scenario: Pre-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Summary for Hydrograph Addition at 'Junction 1C'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1C

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Offsite DA-1C	1,230,839.237	12.200	255.86
Flow (In)	Junction 1C	1,230,839.237	12.200	255.86

Subsection: Addition Summary
Label: Junction 1D
Scenario: Pre-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Summary for Hydrograph Addition at 'Junction 1D'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	EDA 1B
DA-1B	Junction 1B
Reach EDA-1C	Junction 1C

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	EDA 1B	129,592.290	12.250	27.66
Flow (From)	DA-1B	367,988.537	12.500	60.63
Flow (From)	Reach EDA-1C	235,626.624	12.250	49.74
Flow (In)	Junction 1D	732,904.957	12.350	125.34

Subsection: Addition Summary
Label: Junction 1D
Scenario: Pre-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Existing Hydrologic Calculations Report

Subsection: Addition Summary
Label: Junction 1D
Scenario: Pre-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Summary for Hydrograph Addition at 'Junction 1D'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	EDA 1B
DA-1B	Junction 1B
Reach EDA-1C	Junction 1C

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	EDA 1B	181,432.980	12.250	39.20
Flow (From)	DA-1B	510,924.703	12.450	85.27
Flow (From)	Reach EDA-1C	321,756.514	12.250	68.74
Flow (In)	Junction 1D	1,013,723.281	12.300	175.03

Subsection: Addition Summary
Label: Junction 1D
Scenario: Pre-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Summary for Hydrograph Addition at 'Junction 1D'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	EDA 1B
DA-1B	Junction 1B
Reach EDA-1C	Junction 1C

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	EDA 1B	340,000.928	12.200	74.26
Flow (From)	DA-1B	944,868.619	12.450	158.98
Flow (From)	Reach EDA-1C	579,396.415	12.250	123.82
Flow (In)	Junction 1D	1,863,628.809	12.300	324.21

Subsection: Addition Summary
Label: Junction 1D
Scenario: Pre-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Summary for Hydrograph Addition at 'Junction 1D'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	EDA 1B
DA-1B	Junction 1B
Reach EDA-1C	Junction 1C

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	EDA 1B	472,355.333	12.200	102.95

Existing Hydrologic Calculations Report

Subsection: Addition Summary
Label: Junction 1D
Scenario: Pre-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	DA-1B	1,305,069.111	12.450	218.63
Flow (From)	Reach EDA-1C	791,007.515	12.250	167.70
Flow (In)	Junction 1D	2,567,604.059	12.300	444.61

Subsection: Addition Summary
Label: Junction 1D
Scenario: Pre-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Summary for Hydrograph Addition at 'Junction 1D'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	EDA 1B
DA-1B	Junction 1B
Reach EDA-1C	Junction 1C

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	EDA 1B	749,687.997	12.200	161.45
Flow (From)	DA-1B	2,057,002.715	12.450	339.79
Flow (From)	Reach EDA-1C	1,229,517.172	12.250	255.10
Flow (In)	Junction 1D	4,035,000.929	12.300	690.72

Subsection: Time vs. Elevation
Label: Reach EDA-1C
Scenario: Pre-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	292.00	292.00	292.00	292.00	292.00
0.250	292.00	292.00	292.00	292.00	292.00
0.500	292.00	292.00	292.00	292.00	292.00
0.750	292.00	292.00	292.00	292.00	292.00
1.000	292.00	292.00	292.00	292.00	292.00
1.250	292.00	292.00	292.00	292.00	292.00
1.500	292.00	292.00	292.00	292.00	292.00
1.750	292.00	292.00	292.00	292.00	292.00
2.000	292.00	292.00	292.00	292.00	292.00
2.250	292.00	292.00	292.00	292.00	292.00
2.500	292.00	292.00	292.00	292.00	292.00
2.750	292.00	292.00	292.00	292.00	292.00
3.000	292.00	292.00	292.00	292.00	292.00
3.250	292.00	292.00	292.00	292.00	292.00

Existing Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 1 years
Label: Reach EDA-1C | Storm Event: 1 year
Scenario: Pre-Development 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
3.500	292.00	292.00	292.00	292.00	292.00
3.750	292.00	292.00	292.00	292.00	292.00
4.000	292.00	292.00	292.00	292.00	292.00
4.250	292.00	292.00	292.00	292.00	292.00
4.500	292.00	292.00	292.00	292.00	292.00
4.750	292.00	292.00	292.00	292.00	292.00
5.000	292.00	292.00	292.00	292.00	292.00
5.250	292.00	292.00	292.00	292.00	292.00
5.500	292.00	292.00	292.00	292.00	292.00
5.750	292.00	292.00	292.00	292.00	292.00
6.000	292.00	292.00	292.00	292.00	292.00
6.250	292.00	292.00	292.00	292.00	292.00
6.500	292.00	292.00	292.00	292.00	292.00
6.750	292.00	292.00	292.00	292.00	292.00
7.000	292.00	292.00	292.00	292.00	292.00
7.250	292.00	292.00	292.00	292.00	292.00
7.500	292.00	292.00	292.00	292.00	292.00
7.750	292.00	292.00	292.00	292.00	292.00
8.000	292.00	292.00	292.00	292.00	292.00
8.250	292.00	292.00	292.00	292.00	292.00
8.500	292.00	292.00	292.00	292.00	292.00
8.750	292.00	292.00	292.00	292.00	292.00
9.000	292.00	292.00	292.00	292.00	292.00
9.250	292.00	292.00	292.00	292.00	292.00
9.500	292.01	292.01	292.01	292.01	292.01
9.750	292.02	292.02	292.02	292.02	292.02
10.000	292.02	292.03	292.03	292.03	292.03
10.250	292.03	292.03	292.04	292.04	292.04
10.500	292.04	292.05	292.05	292.05	292.05
10.750	292.06	292.06	292.06	292.07	292.07
11.000	292.07	292.08	292.08	292.08	292.09
11.250	292.09	292.09	292.10	292.10	292.10
11.500	292.11	292.11	292.12	292.13	292.14
11.750	292.16	292.18	292.21	292.24	292.27
12.000	292.31	292.37	292.43	292.49	292.53
12.250	292.55	292.55	292.53	292.51	292.48
12.500	292.45	292.42	292.39	292.36	292.33
12.750	292.30	292.28	292.26	292.25	292.23
13.000	292.22	292.21	292.21	292.20	292.19
13.250	292.19	292.18	292.18	292.18	292.17
13.500	292.17	292.17	292.17	292.17	292.16
13.750	292.16	292.16	292.16	292.16	292.16
14.000	292.15	292.15	292.15	292.15	292.15
14.250	292.14	292.14	292.14	292.14	292.14
14.500	292.14	292.14	292.13	292.13	292.13

Existing Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 1 years
Label: Reach EDA-1C | Storm Event: 1 year
Scenario: Pre-Development 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
14.750	292.13	292.13	292.13	292.13	292.13
15.000	292.13	292.13	292.12	292.12	292.12
15.250	292.12	292.12	292.12	292.12	292.12
15.500	292.12	292.11	292.11	292.11	292.11
15.750	292.11	292.11	292.11	292.11	292.11
16.000	292.10	292.10	292.10	292.10	292.10
16.250	292.10	292.10	292.10	292.10	292.10
16.500	292.10	292.09	292.09	292.09	292.09
16.750	292.09	292.09	292.09	292.09	292.09
17.000	292.09	292.09	292.09	292.09	292.09
17.250	292.09	292.09	292.09	292.09	292.09
17.500	292.09	292.08	292.08	292.08	292.08
17.750	292.08	292.08	292.08	292.08	292.08
18.000	292.08	292.08	292.08	292.08	292.08
18.250	292.08	292.08	292.08	292.07	292.07
18.500	292.07	292.07	292.07	292.07	292.07
18.750	292.07	292.07	292.07	292.07	292.07
19.000	292.07	292.07	292.07	292.07	292.07
19.250	292.07	292.07	292.07	292.07	292.07
19.500	292.07	292.07	292.07	292.07	292.07
19.750	292.07	292.07	292.07	292.07	292.06
20.000	292.06	292.06	292.06	292.06	292.06
20.250	292.06	292.06	292.06	292.06	292.06
20.500	292.06	292.06	292.06	292.06	292.06
20.750	292.06	292.06	292.06	292.06	292.06
21.000	292.06	292.06	292.06	292.06	292.06
21.250	292.06	292.06	292.06	292.06	292.06
21.500	292.06	292.06	292.06	292.06	292.06
21.750	292.06	292.06	292.06	292.06	292.06
22.000	292.05	292.05	292.05	292.05	292.05
22.250	292.05	292.05	292.05	292.05	292.05
22.500	292.05	292.05	292.05	292.05	292.05
22.750	292.05	292.05	292.05	292.05	292.05
23.000	292.05	292.05	292.05	292.05	292.05
23.250	292.05	292.05	292.05	292.05	292.05
23.500	292.05	292.05	292.05	292.05	292.05
23.750	292.05	292.05	292.05	292.05	292.05
24.000	292.05	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation | Return Event: 2 years
Label: Reach EDA-1C | Storm Event: 2 year
Scenario: Pre-Development 2 year

Existing Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 2 years
Label: Reach EDA-1C | Storm Event: 2 year
Scenario: Pre-Development 2 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	292.00	292.00	292.00	292.00	292.00
0.250	292.00	292.00	292.00	292.00	292.00
0.500	292.00	292.00	292.00	292.00	292.00
0.750	292.00	292.00	292.00	292.00	292.00
1.000	292.00	292.00	292.00	292.00	292.00
1.250	292.00	292.00	292.00	292.00	292.00
1.500	292.00	292.00	292.00	292.00	292.00
1.750	292.00	292.00	292.00	292.00	292.00
2.000	292.00	292.00	292.00	292.00	292.00
2.250	292.00	292.00	292.00	292.00	292.00
2.500	292.00	292.00	292.00	292.00	292.00
2.750	292.00	292.00	292.00	292.00	292.00
3.000	292.00	292.00	292.00	292.00	292.00
3.250	292.00	292.00	292.00	292.00	292.00
3.500	292.00	292.00	292.00	292.00	292.00
3.750	292.00	292.00	292.00	292.00	292.00
4.000	292.00	292.00	292.00	292.00	292.00
4.250	292.00	292.00	292.00	292.00	292.00
4.500	292.00	292.00	292.00	292.00	292.00
4.750	292.00	292.00	292.00	292.00	292.00
5.000	292.00	292.00	292.00	292.00	292.00
5.250	292.00	292.00	292.00	292.00	292.00
5.500	292.00	292.00	292.00	292.00	292.00
5.750	292.00	292.00	292.00	292.00	292.00
6.000	292.00	292.00	292.00	292.00	292.00
6.250	292.00	292.00	292.00	292.00	292.00
6.500	292.00	292.00	292.00	292.00	292.00
6.750	292.00	292.00	292.00	292.00	292.00
7.000	292.00	292.00	292.00	292.00	292.00
7.250	292.00	292.00	292.00	292.00	292.00
7.500	292.00	292.00	292.00	292.00	292.00
7.750	292.00	292.00	292.00	292.00	292.00
8.000	292.00	292.00	292.00	292.00	292.00
8.250	292.00	292.00	292.00	292.00	292.00
8.500	292.00	292.00	292.00	292.00	292.00
8.750	292.01	292.01	292.01	292.01	292.01
9.000	292.02	292.02	292.02	292.02	292.02
9.250	292.02	292.02	292.03	292.03	292.03
9.500	292.03	292.03	292.03	292.04	292.04
9.750	292.04	292.04	292.04	292.05	292.05
10.000	292.05	292.05	292.06	292.06	292.06
10.250	292.06	292.07	292.07	292.07	292.08
10.500	292.08	292.08	292.08	292.09	292.09
10.750	292.09	292.09	292.10	292.10	292.10
11.000	292.10	292.11	292.11	292.11	292.12

Existing Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 2 years
Label: Reach EDA-1C | Storm Event: 2 year
Scenario: Pre-Development 2 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
11.250	292.12	292.12	292.13	292.13	292.14
11.500	292.15	292.16	292.16	292.18	292.19
11.750	292.21	292.24	292.27	292.30	292.34
12.000	292.40	292.46	292.53	292.60	292.65
12.250	292.67	292.66	292.64	292.60	292.57
12.500	292.53	292.49	292.46	292.42	292.39
12.750	292.35	292.33	292.31	292.29	292.27
13.000	292.26	292.25	292.24	292.23	292.23
13.250	292.22	292.21	292.21	292.21	292.20
13.500	292.20	292.20	292.20	292.19	292.19
13.750	292.19	292.19	292.19	292.18	292.18
14.000	292.18	292.18	292.18	292.17	292.17
14.250	292.17	292.17	292.17	292.17	292.16
14.500	292.16	292.16	292.16	292.16	292.16
14.750	292.16	292.16	292.15	292.15	292.15
15.000	292.15	292.15	292.15	292.15	292.15
15.250	292.14	292.14	292.14	292.14	292.14
15.500	292.14	292.13	292.13	292.13	292.13
15.750	292.13	292.13	292.13	292.12	292.12
16.000	292.12	292.12	292.12	292.12	292.12
16.250	292.11	292.11	292.11	292.11	292.11
16.500	292.11	292.11	292.11	292.11	292.11
16.750	292.11	292.11	292.11	292.10	292.10
17.000	292.10	292.10	292.10	292.10	292.10
17.250	292.10	292.10	292.10	292.10	292.10
17.500	292.10	292.10	292.10	292.10	292.09
17.750	292.09	292.09	292.09	292.09	292.09
18.000	292.09	292.09	292.09	292.09	292.09
18.250	292.09	292.09	292.09	292.09	292.09
18.500	292.09	292.09	292.09	292.09	292.09
18.750	292.08	292.08	292.08	292.08	292.08
19.000	292.08	292.08	292.08	292.08	292.08
19.250	292.08	292.08	292.08	292.08	292.08
19.500	292.08	292.08	292.08	292.08	292.08
19.750	292.08	292.08	292.08	292.08	292.08
20.000	292.08	292.08	292.08	292.08	292.08
20.250	292.08	292.08	292.08	292.08	292.08
20.500	292.08	292.08	292.08	292.08	292.08
20.750	292.08	292.08	292.07	292.07	292.07
21.000	292.07	292.07	292.07	292.07	292.07
21.250	292.07	292.07	292.07	292.07	292.07
21.500	292.07	292.07	292.07	292.07	292.07
21.750	292.07	292.07	292.07	292.07	292.07
22.000	292.07	292.07	292.07	292.07	292.07
22.250	292.07	292.07	292.07	292.07	292.07

Existing Hydrologic Calculations Report

Subsection: Time vs. Elevation — Return Event: 2 years
Label: Reach EDA-1C — Storm Event: 2 year
Scenario: Pre-Development 2 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
22.500	292.07	292.06	292.06	292.06	292.06
22.750	292.06	292.06	292.06	292.06	292.06
23.000	292.06	292.06	292.06	292.06	292.06
23.250	292.06	292.06	292.06	292.06	292.06
23.500	292.06	292.06	292.06	292.06	292.06
23.750	292.06	292.06	292.06	292.06	292.06
24.000	292.06	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation — Return Event: 10 years
Label: Reach EDA-1C — Storm Event: 10 year
Scenario: Pre-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	292.00	292.00	292.00	292.00	292.00
0.250	292.00	292.00	292.00	292.00	292.00
0.500	292.00	292.00	292.00	292.00	292.00
0.750	292.00	292.00	292.00	292.00	292.00
1.000	292.00	292.00	292.00	292.00	292.00
1.250	292.00	292.00	292.00	292.00	292.00
1.500	292.00	292.00	292.00	292.00	292.00
1.750	292.00	292.00	292.00	292.00	292.00
2.000	292.00	292.00	292.00	292.00	292.00
2.250	292.00	292.00	292.00	292.00	292.00
2.500	292.00	292.00	292.00	292.00	292.00
2.750	292.00	292.00	292.00	292.00	292.00
3.000	292.00	292.00	292.00	292.00	292.00
3.250	292.00	292.00	292.00	292.00	292.00
3.500	292.00	292.00	292.00	292.00	292.00
3.750	292.00	292.00	292.00	292.00	292.00
4.000	292.00	292.00	292.00	292.00	292.00
4.250	292.00	292.00	292.00	292.00	292.00
4.500	292.00	292.00	292.00	292.00	292.00
4.750	292.00	292.00	292.00	292.00	292.00
5.000	292.00	292.00	292.00	292.00	292.00
5.250	292.00	292.00	292.00	292.00	292.00
5.500	292.00	292.00	292.00	292.00	292.00
5.750	292.00	292.00	292.00	292.00	292.00
6.000	292.00	292.00	292.00	292.00	292.00
6.250	292.00	292.00	292.00	292.00	292.00
6.500	292.00	292.00	292.00	292.00	292.00

Existing Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 10 years
Label: Reach EDA-1C | Storm Event: 10 year
Scenario: Pre-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
6.750	292.00	292.00	292.00	292.00	292.00
7.000	292.00	292.00	292.01	292.01	292.01
7.250	292.01	292.01	292.01	292.02	292.02
7.500	292.02	292.02	292.02	292.02	292.02
7.750	292.02	292.03	292.03	292.03	292.03
8.000	292.03	292.03	292.03	292.04	292.04
8.250	292.04	292.04	292.04	292.04	292.05
8.500	292.05	292.05	292.05	292.06	292.06
8.750	292.06	292.06	292.07	292.07	292.07
9.000	292.07	292.08	292.08	292.08	292.09
9.250	292.09	292.09	292.09	292.09	292.09
9.500	292.10	292.10	292.10	292.10	292.10
9.750	292.11	292.11	292.11	292.11	292.11
10.000	292.12	292.12	292.12	292.12	292.13
10.250	292.13	292.13	292.14	292.14	292.14
10.500	292.15	292.15	292.15	292.16	292.16
10.750	292.17	292.17	292.17	292.17	292.18
11.000	292.18	292.18	292.19	292.19	292.20
11.250	292.20	292.21	292.22	292.22	292.23
11.500	292.24	292.25	292.26	292.28	292.30
11.750	292.33	292.37	292.42	292.47	292.52
12.000	292.59	292.68	292.77	292.86	292.92
12.250	292.93	292.92	292.88	292.83	292.78
12.500	292.72	292.67	292.62	292.57	292.52
12.750	292.48	292.44	292.42	292.39	292.37
13.000	292.36	292.34	292.33	292.32	292.31
13.250	292.30	292.29	292.28	292.28	292.28
13.500	292.27	292.27	292.27	292.26	292.26
13.750	292.26	292.25	292.25	292.25	292.25
14.000	292.24	292.24	292.24	292.23	292.23
14.250	292.23	292.23	292.22	292.22	292.22
14.500	292.22	292.22	292.21	292.21	292.21
14.750	292.21	292.21	292.21	292.20	292.20
15.000	292.20	292.20	292.20	292.20	292.19
15.250	292.19	292.19	292.19	292.19	292.19
15.500	292.18	292.18	292.18	292.18	292.18
15.750	292.18	292.17	292.17	292.17	292.17
16.000	292.17	292.17	292.16	292.16	292.16
16.250	292.16	292.16	292.16	292.15	292.15
16.500	292.15	292.15	292.15	292.15	292.15
16.750	292.15	292.15	292.14	292.14	292.14
17.000	292.14	292.14	292.14	292.14	292.14
17.250	292.14	292.13	292.13	292.13	292.13
17.500	292.13	292.13	292.13	292.13	292.13
17.750	292.13	292.12	292.12	292.12	292.12

Existing Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 10 years
Label: Reach EDA-1C | Storm Event: 10 year
Scenario: Pre-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
18.000	292.12	292.12	292.12	292.12	292.12
18.250	292.11	292.11	292.11	292.11	292.11
18.500	292.11	292.11	292.11	292.11	292.11
18.750	292.11	292.11	292.11	292.11	292.11
19.000	292.11	292.11	292.11	292.11	292.11
19.250	292.11	292.11	292.11	292.11	292.11
19.500	292.11	292.11	292.10	292.10	292.10
19.750	292.10	292.10	292.10	292.10	292.10
20.000	292.10	292.10	292.10	292.10	292.10
20.250	292.10	292.10	292.10	292.10	292.10
20.500	292.10	292.10	292.10	292.10	292.10
20.750	292.10	292.10	292.10	292.10	292.10
21.000	292.10	292.10	292.10	292.10	292.10
21.250	292.10	292.10	292.10	292.10	292.09
21.500	292.09	292.09	292.09	292.09	292.09
21.750	292.09	292.09	292.09	292.09	292.09
22.000	292.09	292.09	292.09	292.09	292.09
22.250	292.09	292.09	292.09	292.09	292.09
22.500	292.09	292.09	292.09	292.09	292.09
22.750	292.09	292.09	292.09	292.09	292.09
23.000	292.09	292.09	292.09	292.09	292.09
23.250	292.09	292.09	292.09	292.09	292.09
23.500	292.08	292.08	292.08	292.08	292.08
23.750	292.08	292.08	292.08	292.08	292.08
24.000	292.08	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation | Return Event: 25 years
Label: Reach EDA-1C | Storm Event: 25 year
Scenario: Pre-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	292.00	292.00	292.00	292.00	292.00
0.250	292.00	292.00	292.00	292.00	292.00
0.500	292.00	292.00	292.00	292.00	292.00
0.750	292.00	292.00	292.00	292.00	292.00
1.000	292.00	292.00	292.00	292.00	292.00
1.250	292.00	292.00	292.00	292.00	292.00
1.500	292.00	292.00	292.00	292.00	292.00
1.750	292.00	292.00	292.00	292.00	292.00
2.000	292.00	292.00	292.00	292.00	292.00

Existing Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 25 years
Label: Reach EDA-1C | Storm Event: 25 year
Scenario: Pre-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
2.250	292.00	292.00	292.00	292.00	292.00
2.500	292.00	292.00	292.00	292.00	292.00
2.750	292.00	292.00	292.00	292.00	292.00
3.000	292.00	292.00	292.00	292.00	292.00
3.250	292.00	292.00	292.00	292.00	292.00
3.500	292.00	292.00	292.00	292.00	292.00
3.750	292.00	292.00	292.00	292.00	292.00
4.000	292.00	292.00	292.00	292.00	292.00
4.250	292.00	292.00	292.00	292.00	292.00
4.500	292.00	292.00	292.00	292.00	292.00
4.750	292.00	292.00	292.00	292.00	292.00
5.000	292.00	292.00	292.00	292.00	292.00
5.250	292.00	292.00	292.00	292.00	292.00
5.500	292.00	292.00	292.00	292.00	292.00
5.750	292.00	292.00	292.00	292.00	292.00
6.000	292.00	292.00	292.01	292.01	292.01
6.250	292.01	292.01	292.01	292.02	292.02
6.500	292.02	292.02	292.02	292.02	292.02
6.750	292.02	292.03	292.03	292.03	292.03
7.000	292.03	292.03	292.03	292.04	292.04
7.250	292.04	292.04	292.04	292.04	292.05
7.500	292.05	292.05	292.05	292.05	292.05
7.750	292.06	292.06	292.06	292.06	292.06
8.000	292.07	292.07	292.07	292.07	292.08
8.250	292.08	292.08	292.08	292.08	292.09
8.500	292.09	292.09	292.09	292.09	292.10
8.750	292.10	292.10	292.10	292.10	292.11
9.000	292.11	292.11	292.11	292.12	292.12
9.250	292.12	292.12	292.13	292.13	292.13
9.500	292.13	292.14	292.14	292.14	292.15
9.750	292.15	292.15	292.15	292.16	292.16
10.000	292.16	292.17	292.17	292.17	292.17
10.250	292.18	292.18	292.18	292.19	292.19
10.500	292.19	292.20	292.20	292.20	292.21
10.750	292.21	292.22	292.22	292.23	292.23
11.000	292.23	292.24	292.24	292.25	292.25
11.250	292.26	292.27	292.28	292.29	292.30
11.500	292.31	292.32	292.33	292.35	292.38
11.750	292.42	292.46	292.52	292.58	292.64
12.000	292.72	292.82	292.93	293.03	293.09
12.250	293.11	293.08	293.04	292.98	292.91
12.500	292.85	292.79	292.73	292.67	292.61
12.750	292.56	292.52	292.49	292.46	292.44
13.000	292.42	292.40	292.38	292.37	292.36
13.250	292.35	292.34	292.33	292.33	292.32

Existing Hydrologic Calculations Report

Subsection: Time vs. Elevation — Return Event: 25 years
Label: Reach EDA-1C — Storm Event: 25 year
Scenario: Pre-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
13.500	292.32	292.32	292.31	292.31	292.30
13.750	292.30	292.30	292.29	292.29	292.29
14.000	292.28	292.28	292.28	292.27	292.27
14.250	292.27	292.26	292.26	292.26	292.26
14.500	292.26	292.25	292.25	292.25	292.25
14.750	292.25	292.24	292.24	292.24	292.24
15.000	292.24	292.24	292.23	292.23	292.23
15.250	292.23	292.22	292.22	292.22	292.22
15.500	292.22	292.21	292.21	292.21	292.21
15.750	292.20	292.20	292.20	292.20	292.20
16.000	292.19	292.19	292.19	292.19	292.19
16.250	292.18	292.18	292.18	292.18	292.18
16.500	292.18	292.18	292.17	292.17	292.17
16.750	292.17	292.17	292.17	292.17	292.17
17.000	292.17	292.17	292.16	292.16	292.16
17.250	292.16	292.16	292.16	292.16	292.16
17.500	292.16	292.15	292.15	292.15	292.15
17.750	292.15	292.15	292.15	292.15	292.14
18.000	292.14	292.14	292.14	292.14	292.14
18.250	292.14	292.13	292.13	292.13	292.13
18.500	292.13	292.13	292.13	292.13	292.13
18.750	292.13	292.13	292.13	292.13	292.13
19.000	292.13	292.13	292.13	292.13	292.13
19.250	292.13	292.13	292.12	292.12	292.12
19.500	292.12	292.12	292.12	292.12	292.12
19.750	292.12	292.12	292.12	292.12	292.12
20.000	292.12	292.12	292.12	292.12	292.12
20.250	292.12	292.12	292.12	292.12	292.12
20.500	292.12	292.12	292.12	292.11	292.11
20.750	292.11	292.11	292.11	292.11	292.11
21.000	292.11	292.11	292.11	292.11	292.11
21.250	292.11	292.11	292.11	292.11	292.11
21.500	292.11	292.11	292.11	292.11	292.11
21.750	292.11	292.11	292.11	292.11	292.11
22.000	292.11	292.11	292.11	292.11	292.11
22.250	292.10	292.10	292.10	292.10	292.10
22.500	292.10	292.10	292.10	292.10	292.10
22.750	292.10	292.10	292.10	292.10	292.10
23.000	292.10	292.10	292.10	292.10	292.10
23.250	292.10	292.10	292.10	292.10	292.10
23.500	292.10	292.10	292.10	292.10	292.10
23.750	292.10	292.09	292.09	292.09	292.09
24.000	292.09	(N/A)	(N/A)	(N/A)	(N/A)

Existing Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 100 years
Label: Reach EDA-1C | Storm Event: 100 year
Scenario: Pre-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	292.00	292.00	292.00	292.00	292.00
0.250	292.00	292.00	292.00	292.00	292.00
0.500	292.00	292.00	292.00	292.00	292.00
0.750	292.00	292.00	292.00	292.00	292.00
1.000	292.00	292.00	292.00	292.00	292.00
1.250	292.00	292.00	292.00	292.00	292.00
1.500	292.00	292.00	292.00	292.00	292.00
1.750	292.00	292.00	292.00	292.00	292.00
2.000	292.00	292.00	292.00	292.00	292.00
2.250	292.00	292.00	292.00	292.00	292.00
2.500	292.00	292.00	292.00	292.00	292.00
2.750	292.00	292.00	292.00	292.00	292.00
3.000	292.00	292.00	292.00	292.00	292.00
3.250	292.00	292.00	292.00	292.00	292.00
3.500	292.00	292.00	292.00	292.00	292.00
3.750	292.00	292.00	292.00	292.00	292.00
4.000	292.00	292.00	292.00	292.00	292.00
4.250	292.00	292.00	292.00	292.00	292.00
4.500	292.00	292.00	292.00	292.00	292.00
4.750	292.01	292.01	292.01	292.01	292.01
5.000	292.02	292.02	292.02	292.02	292.02
5.250	292.02	292.03	292.03	292.03	292.03
5.500	292.03	292.03	292.03	292.04	292.04
5.750	292.04	292.04	292.04	292.04	292.04
6.000	292.05	292.05	292.05	292.05	292.05
6.250	292.05	292.06	292.06	292.06	292.06
6.500	292.06	292.07	292.07	292.07	292.07
6.750	292.08	292.08	292.08	292.08	292.08
7.000	292.09	292.09	292.09	292.09	292.09
7.250	292.09	292.10	292.10	292.10	292.10
7.500	292.10	292.10	292.11	292.11	292.11
7.750	292.11	292.11	292.11	292.12	292.12
8.000	292.12	292.12	292.12	292.13	292.13
8.250	292.13	292.13	292.13	292.14	292.14
8.500	292.14	292.15	292.15	292.15	292.16
8.750	292.16	292.16	292.17	292.17	292.17
9.000	292.17	292.18	292.18	292.18	292.19
9.250	292.19	292.19	292.20	292.20	292.20
9.500	292.20	292.21	292.21	292.21	292.22
9.750	292.22	292.22	292.23	292.23	292.23
10.000	292.24	292.24	292.24	292.25	292.25
10.250	292.25	292.26	292.26	292.27	292.27
10.500	292.28	292.28	292.28	292.29	292.29
10.750	292.30	292.31	292.31	292.32	292.32
11.000	292.33	292.33	292.34	292.34	292.35

Existing Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 100 years
Label: Reach EDA-1C | Storm Event: 100 year
Scenario: Pre-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
11.250	292.36	292.37	292.38	292.39	292.40
11.500	292.42	292.43	292.45	292.48	292.51
11.750	292.56	292.62	292.69	292.76	292.84
12.000	292.95	293.07	293.20	293.30	293.38
12.250	293.40	293.37	293.32	293.24	293.16
12.500	293.07	292.99	292.91	292.84	292.77
12.750	292.70	292.65	292.61	292.58	292.55
13.000	292.52	292.50	292.48	292.46	292.45
13.250	292.44	292.43	292.42	292.41	292.41
13.500	292.40	292.40	292.39	292.39	292.38
13.750	292.38	292.37	292.37	292.36	292.36
14.000	292.36	292.35	292.35	292.34	292.34
14.250	292.33	292.33	292.33	292.33	292.32
14.500	292.32	292.32	292.32	292.31	292.31
14.750	292.31	292.31	292.30	292.30	292.30
15.000	292.30	292.29	292.29	292.29	292.29
15.250	292.28	292.28	292.28	292.28	292.27
15.500	292.27	292.27	292.27	292.26	292.26
15.750	292.26	292.25	292.25	292.25	292.25
16.000	292.24	292.24	292.24	292.24	292.23
16.250	292.23	292.23	292.23	292.23	292.22
16.500	292.22	292.22	292.22	292.22	292.22
16.750	292.21	292.21	292.21	292.21	292.21
17.000	292.21	292.21	292.20	292.20	292.20
17.250	292.20	292.20	292.20	292.20	292.19
17.500	292.19	292.19	292.19	292.19	292.19
17.750	292.19	292.18	292.18	292.18	292.18
18.000	292.18	292.18	292.18	292.17	292.17
18.250	292.17	292.17	292.17	292.17	292.17
18.500	292.17	292.17	292.17	292.17	292.17
18.750	292.17	292.17	292.17	292.16	292.16
19.000	292.16	292.16	292.16	292.16	292.16
19.250	292.16	292.16	292.16	292.16	292.16
19.500	292.16	292.16	292.16	292.16	292.16
19.750	292.16	292.16	292.16	292.15	292.15
20.000	292.15	292.15	292.15	292.15	292.15
20.250	292.15	292.15	292.15	292.15	292.15
20.500	292.15	292.15	292.15	292.15	292.15
20.750	292.15	292.15	292.14	292.14	292.14
21.000	292.14	292.14	292.14	292.14	292.14
21.250	292.14	292.14	292.14	292.14	292.14
21.500	292.14	292.14	292.14	292.14	292.14
21.750	292.14	292.14	292.14	292.14	292.13
22.000	292.13	292.13	292.13	292.13	292.13
22.250	292.13	292.13	292.13	292.13	292.13

Existing Hydrologic Calculations Report

Subsection: Time vs. Elevation — Return Event: 100 years
Label: Reach EDA-1C — Storm Event: 100 year
Scenario: Pre-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
22.500	292.13	292.13	292.13	292.13	292.13
22.750	292.13	292.13	292.13	292.13	292.13
23.000	292.13	292.12	292.12	292.12	292.12
23.250	292.12	292.12	292.12	292.12	292.12
23.500	292.12	292.12	292.12	292.12	292.12
23.750	292.12	292.12	292.12	292.12	292.12
24.000	292.12	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume — Return Event: 1 years
Label: Reach EDA-1C — Storm Event: 1 year
Scenario: Pre-Development 1 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.250	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
5.750	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.250	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000

Existing Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 1 years
Label: Reach EDA-1C | Storm Event: 1 year
Scenario: Pre-Development 1 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
6.750	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.250	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
7.750	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.250	0.000	0.000	0.000	0.000	0.000
8.500	0.000	0.000	0.000	0.000	0.000
8.750	0.000	0.000	0.000	0.000	0.000
9.000	0.000	0.000	0.000	0.000	2.000
9.250	6.000	11.000	20.000	32.000	48.000
9.500	67.000	89.000	114.000	139.000	160.000
9.750	179.000	197.000	215.000	232.000	250.000
10.000	267.000	285.000	303.000	322.000	342.000
10.250	362.000	384.000	406.000	430.000	455.000
10.500	482.000	509.000	538.000	568.000	599.000
10.750	632.000	665.000	700.000	735.000	772.000
11.000	810.000	850.000	891.000	930.000	966.000
11.250	1,001.000	1,039.000	1,082.000	1,129.000	1,181.000
11.500	1,237.000	1,300.000	1,377.000	1,481.000	1,632.000
11.750	1,844.000	2,104.000	2,404.000	2,766.000	3,192.000
12.000	3,733.000	4,431.000	5,242.000	6,041.000	6,647.000
12.250	6,929.000	6,894.000	6,642.000	6,278.000	5,882.000
12.500	5,479.000	5,074.000	4,672.000	4,275.000	3,906.000
12.750	3,579.000	3,295.000	3,066.000	2,889.000	2,745.000
13.000	2,615.000	2,496.000	2,392.000	2,301.000	2,225.000
13.250	2,162.000	2,110.000	2,068.000	2,033.000	2,003.000
13.500	1,978.000	1,955.000	1,934.000	1,914.000	1,895.000
13.750	1,876.000	1,857.000	1,839.000	1,819.000	1,796.000
14.000	1,771.000	1,746.000	1,721.000	1,697.000	1,673.000
14.250	1,652.000	1,632.000	1,614.000	1,598.000	1,583.000
14.500	1,569.000	1,555.000	1,542.000	1,529.000	1,516.000
14.750	1,504.000	1,491.000	1,479.000	1,466.000	1,454.000
15.000	1,441.000	1,429.000	1,416.000	1,403.000	1,391.000
15.250	1,378.000	1,365.000	1,352.000	1,340.000	1,327.000
15.500	1,314.000	1,301.000	1,288.000	1,275.000	1,262.000
15.750	1,249.000	1,236.000	1,222.000	1,209.000	1,196.000
16.000	1,183.000	1,170.000	1,157.000	1,144.000	1,132.000
16.250	1,121.000	1,111.000	1,102.000	1,094.000	1,087.000
16.500	1,080.000	1,073.000	1,067.000	1,061.000	1,055.000
16.750	1,049.000	1,043.000	1,037.000	1,031.000	1,026.000
17.000	1,020.000	1,014.000	1,008.000	1,002.000	997.000
17.250	991.000	985.000	979.000	973.000	967.000
17.500	961.000	956.000	950.000	944.000	938.000
17.750	932.000	926.000	920.000	914.000	908.000

Existing Hydrologic Calculations Report

Subsection: Time vs. Volume
Return Event: 1 years
Label: Reach EDA-1C
Storm Event: 1 year
Scenario: Pre-Development 1 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
18.000	902.000	896.000	888.000	879.000	870.000
18.250	862.000	854.000	846.000	840.000	834.000
18.500	829.000	824.000	820.000	816.000	812.000
18.750	808.000	805.000	801.000	798.000	794.000
19.000	791.000	788.000	784.000	781.000	778.000
19.250	774.000	771.000	768.000	764.000	761.000
19.500	758.000	754.000	751.000	748.000	744.000
19.750	741.000	737.000	734.000	731.000	727.000
20.000	724.000	721.000	717.000	714.000	711.000
20.250	707.000	704.000	702.000	699.000	696.000
20.500	693.000	691.000	688.000	685.000	683.000
20.750	680.000	677.000	675.000	672.000	669.000
21.000	667.000	664.000	662.000	660.000	657.000
21.250	655.000	652.000	650.000	647.000	644.000
21.500	642.000	639.000	637.000	634.000	631.000
21.750	629.000	626.000	624.000	621.000	619.000
22.000	616.000	614.000	611.000	609.000	606.000
22.250	604.000	601.000	598.000	596.000	593.000
22.500	590.000	588.000	585.000	583.000	580.000
22.750	578.000	575.000	573.000	570.000	567.000
23.000	565.000	562.000	559.000	557.000	554.000
23.250	551.000	549.000	546.000	543.000	541.000
23.500	538.000	536.000	534.000	531.000	528.000
23.750	526.000	523.000	520.000	518.000	515.000
24.000	512.000	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume
Return Event: 2 years
Label: Reach EDA-1C
Storm Event: 2 year
Scenario: Pre-Development 2 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000

Existing Hydrologic Calculations Report

Subsection: Time vs. Volume — Return Event: 2 years
Label: Reach EDA-1C — Storm Event: 2 year
Scenario: Pre-Development 2 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.250	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
5.750	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.250	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
6.750	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.250	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
7.750	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.250	0.000	0.000	0.000	0.000	2.000
8.500	5.000	10.000	18.000	29.000	43.000
8.750	60.000	81.000	105.000	129.000	150.000
9.000	170.000	188.000	205.000	222.000	239.000
9.250	256.000	274.000	292.000	310.000	329.000
9.500	349.000	369.000	390.000	411.000	433.000
9.750	455.000	478.000	501.000	525.000	550.000
10.000	575.000	600.000	626.000	654.000	682.000
10.250	712.000	743.000	777.000	812.000	849.000
10.500	888.000	925.000	956.000	983.000	1,010.000
10.750	1,036.000	1,062.000	1,090.000	1,117.000	1,146.000
11.000	1,175.000	1,205.000	1,237.000	1,272.000	1,311.000
11.250	1,357.000	1,411.000	1,472.000	1,541.000	1,617.000
11.500	1,699.000	1,789.000	1,894.000	2,023.000	2,200.000
11.750	2,448.000	2,780.000	3,169.000	3,608.000	4,131.000
12.000	4,799.000	5,654.000	6,636.000	7,580.000	8,278.000
12.250	8,568.000	8,465.000	8,117.000	7,638.000	7,122.000
12.500	6,611.000	6,105.000	5,603.000	5,114.000	4,661.000
12.750	4,257.000	3,921.000	3,650.000	3,426.000	3,242.000
13.000	3,088.000	2,958.000	2,845.000	2,744.000	2,651.000
13.250	2,570.000	2,502.000	2,446.000	2,399.000	2,360.000

Existing Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 2 years
Label: Reach EDA-1C | Storm Event: 2 year
Scenario: Pre-Development 2 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
13.500	2,326.000	2,296.000	2,268.000	2,242.000	2,216.000
13.750	2,190.000	2,165.000	2,141.000	2,116.000	2,092.000
14.000	2,067.000	2,042.000	2,018.000	1,994.000	1,972.000
14.250	1,952.000	1,934.000	1,917.000	1,902.000	1,888.000
14.500	1,874.000	1,861.000	1,849.000	1,837.000	1,823.000
14.750	1,808.000	1,792.000	1,776.000	1,760.000	1,743.000
15.000	1,727.000	1,710.000	1,694.000	1,677.000	1,661.000
15.250	1,644.000	1,627.000	1,610.000	1,594.000	1,577.000
15.500	1,560.000	1,543.000	1,526.000	1,509.000	1,492.000
15.750	1,475.000	1,458.000	1,441.000	1,424.000	1,406.000
16.000	1,389.000	1,372.000	1,355.000	1,339.000	1,323.000
16.250	1,309.000	1,296.000	1,284.000	1,274.000	1,264.000
16.500	1,255.000	1,246.000	1,238.000	1,230.000	1,222.000
16.750	1,215.000	1,207.000	1,200.000	1,192.000	1,184.000
17.000	1,177.000	1,169.000	1,162.000	1,154.000	1,147.000
17.250	1,139.000	1,132.000	1,124.000	1,116.000	1,109.000
17.500	1,101.000	1,094.000	1,086.000	1,078.000	1,071.000
17.750	1,063.000	1,056.000	1,048.000	1,040.000	1,033.000
18.000	1,025.000	1,017.000	1,010.000	1,002.000	995.000
18.250	989.000	984.000	980.000	976.000	972.000
18.500	969.000	967.000	964.000	961.000	959.000
18.750	957.000	954.000	952.000	950.000	947.000
19.000	945.000	943.000	941.000	938.000	936.000
19.250	934.000	932.000	929.000	927.000	925.000
19.500	923.000	920.000	918.000	916.000	913.000
19.750	911.000	909.000	907.000	904.000	902.000
20.000	900.000	897.000	894.000	890.000	886.000
20.250	882.000	879.000	875.000	872.000	868.000
20.500	864.000	861.000	858.000	854.000	851.000
20.750	847.000	844.000	840.000	837.000	834.000
21.000	830.000	827.000	824.000	821.000	818.000
21.250	815.000	811.000	808.000	805.000	801.000
21.500	798.000	795.000	791.000	788.000	784.000
21.750	781.000	778.000	775.000	771.000	768.000
22.000	765.000	762.000	759.000	755.000	752.000
22.250	748.000	745.000	742.000	738.000	735.000
22.500	731.000	728.000	725.000	721.000	718.000
22.750	715.000	712.000	709.000	705.000	702.000
23.000	698.000	695.000	692.000	688.000	685.000
23.250	681.000	678.000	674.000	671.000	668.000
23.500	665.000	662.000	658.000	655.000	652.000
23.750	648.000	645.000	641.000	638.000	634.000
24.000	631.000	(N/A)	(N/A)	(N/A)	(N/A)

Existing Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 10 years
Label: Reach EDA-1C | Storm Event: 10 year
Scenario: Pre-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.250	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
5.750	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.250	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
6.750	1.000	4.000	8.000	14.000	23.000
7.000	34.000	48.000	65.000	85.000	107.000
7.250	129.000	148.000	165.000	180.000	194.000
7.500	208.000	222.000	236.000	250.000	264.000
7.750	278.000	293.000	308.000	323.000	338.000
8.000	354.000	370.000	386.000	403.000	421.000
8.250	439.000	459.000	479.000	501.000	523.000
8.500	547.000	572.000	598.000	625.000	652.000
8.750	681.000	710.000	741.000	772.000	804.000
9.000	837.000	871.000	905.000	935.000	959.000
9.250	980.000	1,002.000	1,023.000	1,044.000	1,066.000
9.500	1,088.000	1,111.000	1,134.000	1,157.000	1,181.000
9.750	1,205.000	1,230.000	1,255.000	1,280.000	1,306.000
10.000	1,332.000	1,359.000	1,386.000	1,414.000	1,444.000
10.250	1,476.000	1,511.000	1,548.000	1,588.000	1,629.000
10.500	1,672.000	1,717.000	1,763.000	1,810.000	1,856.000
10.750	1,898.000	1,937.000	1,975.000	2,013.000	2,052.000
11.000	2,092.000	2,133.000	2,177.000	2,226.000	2,283.000

Existing Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 10 years
Label: Reach EDA-1C | Storm Event: 10 year
Scenario: Pre-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
11.250	2,350.000	2,430.000	2,522.000	2,624.000	2,735.000
11.500	2,849.000	2,966.000	3,106.000	3,305.000	3,597.000
11.750	4,000.000	4,502.000	5,090.000	5,754.000	6,524.000
12.000	7,504.000	8,757.000	10,178.000	11,499.000	12,410.000
12.250	12,703.000	12,429.000	11,814.000	11,035.000	10,217.000
12.500	9,432.000	8,663.000	7,905.000	7,184.000	6,516.000
12.750	5,936.000	5,450.000	5,056.000	4,749.000	4,492.000
13.000	4,270.000	4,079.000	3,915.000	3,773.000	3,646.000
13.250	3,535.000	3,443.000	3,367.000	3,305.000	3,252.000
13.500	3,206.000	3,164.000	3,125.000	3,088.000	3,052.000
13.750	3,017.000	2,982.000	2,948.000	2,914.000	2,880.000
14.000	2,846.000	2,812.000	2,776.000	2,738.000	2,702.000
14.250	2,668.000	2,637.000	2,609.000	2,583.000	2,559.000
14.500	2,536.000	2,515.000	2,493.000	2,473.000	2,452.000
14.750	2,432.000	2,411.000	2,391.000	2,371.000	2,351.000
15.000	2,331.000	2,310.000	2,290.000	2,270.000	2,250.000
15.250	2,230.000	2,209.000	2,189.000	2,168.000	2,148.000
15.500	2,127.000	2,107.000	2,087.000	2,066.000	2,045.000
15.750	2,025.000	2,004.000	1,984.000	1,963.000	1,942.000
16.000	1,922.000	1,901.000	1,881.000	1,861.000	1,843.000
16.250	1,826.000	1,808.000	1,790.000	1,773.000	1,757.000
16.500	1,742.000	1,728.000	1,715.000	1,702.000	1,689.000
16.750	1,676.000	1,664.000	1,651.000	1,639.000	1,626.000
17.000	1,614.000	1,601.000	1,589.000	1,577.000	1,564.000
17.250	1,552.000	1,540.000	1,527.000	1,515.000	1,502.000
17.500	1,490.000	1,477.000	1,465.000	1,452.000	1,440.000
17.750	1,427.000	1,415.000	1,403.000	1,390.000	1,378.000
18.000	1,365.000	1,353.000	1,340.000	1,328.000	1,317.000
18.250	1,307.000	1,299.000	1,291.000	1,285.000	1,279.000
18.500	1,274.000	1,270.000	1,265.000	1,261.000	1,257.000
18.750	1,253.000	1,250.000	1,246.000	1,242.000	1,238.000
19.000	1,235.000	1,231.000	1,227.000	1,223.000	1,220.000
19.250	1,216.000	1,212.000	1,209.000	1,205.000	1,201.000
19.500	1,197.000	1,194.000	1,190.000	1,186.000	1,182.000
19.750	1,179.000	1,175.000	1,171.000	1,168.000	1,164.000
20.000	1,160.000	1,156.000	1,153.000	1,149.000	1,145.000
20.250	1,142.000	1,139.000	1,136.000	1,133.000	1,130.000
20.500	1,127.000	1,124.000	1,121.000	1,118.000	1,115.000
20.750	1,112.000	1,109.000	1,106.000	1,103.000	1,100.000
21.000	1,098.000	1,095.000	1,093.000	1,090.000	1,087.000
21.250	1,084.000	1,081.000	1,079.000	1,076.000	1,073.000
21.500	1,070.000	1,067.000	1,064.000	1,061.000	1,058.000
21.750	1,055.000	1,053.000	1,050.000	1,047.000	1,045.000
22.000	1,042.000	1,039.000	1,036.000	1,033.000	1,031.000
22.250	1,028.000	1,025.000	1,022.000	1,019.000	1,016.000

Existing Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 10 years
Label: Reach EDA-1C | Storm Event: 10 year
Scenario: Pre-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
22.500	1,013.000	1,010.000	1,007.000	1,005.000	1,002.000
22.750	1,000.000	997.000	994.000	991.000	988.000
23.000	985.000	982.000	980.000	977.000	973.000
23.250	970.000	968.000	965.000	962.000	959.000
23.500	957.000	954.000	951.000	948.000	945.000
23.750	943.000	940.000	937.000	934.000	931.000
24.000	928.000	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume | Return Event: 25 years
Label: Reach EDA-1C | Storm Event: 25 year
Scenario: Pre-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.250	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
5.750	1.000	3.000	6.000	12.000	20.000
6.000	30.000	44.000	59.000	77.000	98.000
6.250	119.000	139.000	156.000	171.000	185.000
6.500	199.000	212.000	226.000	239.000	253.000

Existing Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 25 years
Label: Reach EDA-1C | Storm Event: 25 year
Scenario: Pre-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
6.750	268.000	282.000	297.000	313.000	328.000
7.000	345.000	361.000	378.000	395.000	413.000
7.250	431.000	450.000	468.000	488.000	507.000
7.500	527.000	548.000	569.000	590.000	611.000
7.750	633.000	656.000	679.000	702.000	725.000
8.000	749.000	773.000	798.000	824.000	850.000
8.250	878.000	907.000	933.000	955.000	976.000
8.500	997.000	1,019.000	1,041.000	1,064.000	1,087.000
8.750	1,111.000	1,135.000	1,160.000	1,186.000	1,212.000
9.000	1,239.000	1,266.000	1,294.000	1,322.000	1,351.000
9.250	1,380.000	1,410.000	1,440.000	1,471.000	1,502.000
9.500	1,534.000	1,567.000	1,599.000	1,633.000	1,666.000
9.750	1,701.000	1,735.000	1,771.000	1,806.000	1,841.000
10.000	1,873.000	1,902.000	1,931.000	1,960.000	1,991.000
10.250	2,024.000	2,061.000	2,100.000	2,141.000	2,185.000
10.500	2,230.000	2,276.000	2,323.000	2,372.000	2,421.000
10.750	2,472.000	2,523.000	2,575.000	2,628.000	2,682.000
11.000	2,736.000	2,792.000	2,849.000	2,907.000	2,973.000
11.250	3,052.000	3,145.000	3,253.000	3,372.000	3,500.000
11.500	3,636.000	3,787.000	3,969.000	4,219.000	4,586.000
11.750	5,090.000	5,721.000	6,451.000	7,268.000	8,222.000
12.000	9,431.000	10,963.000	12,688.000	14,270.000	15,329.000
12.250	15,618.000	15,214.000	14,404.000	13,408.000	12,377.000
12.500	11,389.000	10,436.000	9,505.000	8,611.000	7,793.000
12.750	7,088.000	6,498.000	6,025.000	5,652.000	5,341.000
13.000	5,079.000	4,855.000	4,653.000	4,469.000	4,315.000
13.250	4,188.000	4,085.000	4,000.000	3,930.000	3,870.000
13.500	3,818.000	3,768.000	3,719.000	3,670.000	3,622.000
13.750	3,576.000	3,530.000	3,484.000	3,439.000	3,395.000
14.000	3,349.000	3,304.000	3,260.000	3,218.000	3,178.000
14.250	3,142.000	3,109.000	3,079.000	3,051.000	3,026.000
14.500	3,002.000	2,978.000	2,956.000	2,933.000	2,911.000
14.750	2,889.000	2,867.000	2,846.000	2,824.000	2,802.000
15.000	2,778.000	2,752.000	2,726.000	2,699.000	2,673.000
15.250	2,646.000	2,620.000	2,593.000	2,566.000	2,539.000
15.500	2,513.000	2,486.000	2,459.000	2,432.000	2,405.000
15.750	2,378.000	2,351.000	2,325.000	2,298.000	2,271.000
16.000	2,244.000	2,217.000	2,190.000	2,165.000	2,142.000
16.250	2,120.000	2,100.000	2,082.000	2,066.000	2,052.000
16.500	2,038.000	2,025.000	2,012.000	2,000.000	1,988.000
16.750	1,976.000	1,964.000	1,952.000	1,940.000	1,928.000
17.000	1,916.000	1,905.000	1,893.000	1,881.000	1,869.000
17.250	1,858.000	1,846.000	1,834.000	1,821.000	1,806.000
17.500	1,790.000	1,774.000	1,758.000	1,742.000	1,726.000
17.750	1,709.000	1,693.000	1,677.000	1,661.000	1,644.000

Existing Hydrologic Calculations Report

Subsection: Time vs. Volume
Label: Reach EDA-1C
Scenario: Pre-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
18.000	1,628.000	1,612.000	1,596.000	1,580.000	1,566.000
18.250	1,553.000	1,542.000	1,532.000	1,524.000	1,517.000
18.500	1,510.000	1,504.000	1,499.000	1,493.000	1,488.000
18.750	1,483.000	1,478.000	1,473.000	1,468.000	1,463.000
19.000	1,458.000	1,453.000	1,449.000	1,444.000	1,439.000
19.250	1,434.000	1,429.000	1,424.000	1,420.000	1,415.000
19.500	1,410.000	1,405.000	1,400.000	1,395.000	1,390.000
19.750	1,386.000	1,381.000	1,376.000	1,371.000	1,366.000
20.000	1,361.000	1,356.000	1,352.000	1,347.000	1,342.000
20.250	1,338.000	1,334.000	1,330.000	1,326.000	1,322.000
20.500	1,318.000	1,314.000	1,310.000	1,306.000	1,303.000
20.750	1,299.000	1,295.000	1,291.000	1,287.000	1,284.000
21.000	1,280.000	1,277.000	1,273.000	1,270.000	1,267.000
21.250	1,263.000	1,259.000	1,255.000	1,252.000	1,248.000
21.500	1,244.000	1,240.000	1,236.000	1,233.000	1,229.000
21.750	1,225.000	1,222.000	1,218.000	1,215.000	1,212.000
22.000	1,208.000	1,204.000	1,200.000	1,197.000	1,193.000
22.250	1,189.000	1,186.000	1,182.000	1,178.000	1,174.000
22.500	1,170.000	1,167.000	1,163.000	1,160.000	1,156.000
22.750	1,153.000	1,149.000	1,146.000	1,142.000	1,138.000
23.000	1,134.000	1,130.000	1,127.000	1,123.000	1,119.000
23.250	1,115.000	1,111.000	1,108.000	1,104.000	1,101.000
23.500	1,097.000	1,094.000	1,090.000	1,087.000	1,083.000
23.750	1,079.000	1,075.000	1,071.000	1,068.000	1,064.000
24.000	1,060.000	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume
Label: Reach EDA-1C
Scenario: Pre-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000

Existing Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 100 years
Label: Reach EDA-1C | Storm Event: 100 year
Scenario: Pre-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	2.000
4.500	5.000	11.000	20.000	32.000	49.000
4.750	69.000	93.000	119.000	144.000	165.000
5.000	185.000	203.000	220.000	237.000	253.000
5.250	269.000	286.000	302.000	318.000	335.000
5.500	351.000	368.000	385.000	401.000	418.000
5.750	435.000	452.000	469.000	486.000	504.000
6.000	521.000	539.000	556.000	574.000	593.000
6.250	612.000	632.000	653.000	676.000	699.000
6.500	723.000	748.000	774.000	800.000	828.000
6.750	856.000	884.000	912.000	935.000	954.000
7.000	972.000	989.000	1,007.000	1,024.000	1,042.000
7.250	1,060.000	1,078.000	1,097.000	1,115.000	1,134.000
7.500	1,154.000	1,173.000	1,193.000	1,213.000	1,234.000
7.750	1,254.000	1,275.000	1,296.000	1,318.000	1,339.000
8.000	1,361.000	1,383.000	1,406.000	1,430.000	1,455.000
8.250	1,482.000	1,511.000	1,543.000	1,576.000	1,612.000
8.500	1,648.000	1,686.000	1,725.000	1,765.000	1,806.000
8.750	1,847.000	1,884.000	1,917.000	1,950.000	1,983.000
9.000	2,016.000	2,050.000	2,084.000	2,119.000	2,154.000
9.250	2,190.000	2,226.000	2,262.000	2,300.000	2,337.000
9.500	2,375.000	2,413.000	2,452.000	2,491.000	2,530.000
9.750	2,570.000	2,610.000	2,651.000	2,692.000	2,733.000
10.000	2,774.000	2,816.000	2,855.000	2,893.000	2,933.000
10.250	2,977.000	3,025.000	3,076.000	3,131.000	3,188.000
10.500	3,247.000	3,307.000	3,368.000	3,431.000	3,495.000
10.750	3,560.000	3,625.000	3,691.000	3,758.000	3,824.000
11.000	3,888.000	3,950.000	4,016.000	4,091.000	4,180.000
11.250	4,289.000	4,419.000	4,568.000	4,732.000	4,906.000
11.500	5,080.000	5,266.000	5,509.000	5,865.000	6,376.000
11.750	7,069.000	7,932.000	8,921.000	10,018.000	11,292.000
12.000	12,914.000	14,969.000	17,191.000	18,972.000	20,400.000
12.250	20,855.000	20,380.000	19,299.000	17,931.000	16,443.000
12.500	14,894.000	13,633.000	12,366.000	11,171.000	10,083.000
12.750	9,146.000	8,372.000	7,751.000	7,262.000	6,863.000
13.000	6,517.000	6,215.000	5,956.000	5,726.000	5,526.000
13.250	5,360.000	5,225.000	5,114.000	5,022.000	4,943.000

Existing Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 100 years
Label: Reach EDA-1C | Storm Event: 100 year
Scenario: Pre-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
13.500	4,874.000	4,810.000	4,746.000	4,684.000	4,623.000
13.750	4,563.000	4,504.000	4,446.000	4,388.000	4,330.000
14.000	4,272.000	4,215.000	4,158.000	4,104.000	4,053.000
14.250	4,007.000	3,966.000	3,928.000	3,893.000	3,860.000
14.500	3,829.000	3,799.000	3,767.000	3,734.000	3,702.000
14.750	3,669.000	3,637.000	3,605.000	3,573.000	3,541.000
15.000	3,509.000	3,476.000	3,444.000	3,412.000	3,380.000
15.250	3,348.000	3,316.000	3,284.000	3,252.000	3,219.000
15.500	3,187.000	3,155.000	3,123.000	3,091.000	3,058.000
15.750	3,026.000	2,994.000	2,962.000	2,929.000	2,897.000
16.000	2,864.000	2,832.000	2,800.000	2,767.000	2,734.000
16.250	2,702.000	2,673.000	2,648.000	2,624.000	2,603.000
16.500	2,582.000	2,563.000	2,545.000	2,527.000	2,509.000
16.750	2,491.000	2,474.000	2,457.000	2,439.000	2,422.000
17.000	2,405.000	2,387.000	2,370.000	2,353.000	2,336.000
17.250	2,319.000	2,301.000	2,284.000	2,267.000	2,250.000
17.500	2,232.000	2,215.000	2,198.000	2,181.000	2,163.000
17.750	2,146.000	2,129.000	2,112.000	2,094.000	2,077.000
18.000	2,060.000	2,042.000	2,025.000	2,009.000	1,994.000
18.250	1,981.000	1,969.000	1,960.000	1,951.000	1,944.000
18.500	1,938.000	1,931.000	1,926.000	1,920.000	1,914.000
18.750	1,909.000	1,904.000	1,899.000	1,893.000	1,888.000
19.000	1,883.000	1,878.000	1,873.000	1,867.000	1,862.000
19.250	1,857.000	1,852.000	1,847.000	1,842.000	1,835.000
19.500	1,831.000	1,825.000	1,818.000	1,811.000	1,804.000
19.750	1,797.000	1,790.000	1,783.000	1,775.000	1,768.000
20.000	1,761.000	1,754.000	1,747.000	1,740.000	1,733.000
20.250	1,727.000	1,721.000	1,715.000	1,709.000	1,704.000
20.500	1,698.000	1,692.000	1,687.000	1,681.000	1,676.000
20.750	1,670.000	1,664.000	1,659.000	1,653.000	1,648.000
21.000	1,643.000	1,638.000	1,633.000	1,628.000	1,623.000
21.250	1,617.000	1,612.000	1,606.000	1,601.000	1,596.000
21.500	1,590.000	1,585.000	1,579.000	1,573.000	1,568.000
21.750	1,563.000	1,557.000	1,552.000	1,548.000	1,543.000
22.000	1,537.000	1,532.000	1,527.000	1,521.000	1,516.000
22.250	1,510.000	1,505.000	1,499.000	1,494.000	1,488.000
22.500	1,483.000	1,477.000	1,472.000	1,467.000	1,462.000
22.750	1,457.000	1,452.000	1,447.000	1,441.000	1,435.000
23.000	1,430.000	1,425.000	1,419.000	1,414.000	1,408.000
23.250	1,402.000	1,397.000	1,391.000	1,386.000	1,381.000
23.500	1,376.000	1,371.000	1,366.000	1,361.000	1,355.000
23.750	1,350.000	1,344.000	1,339.000	1,333.000	1,328.000
24.000	1,322.000	(N/A)	(N/A)	(N/A)	(N/A)

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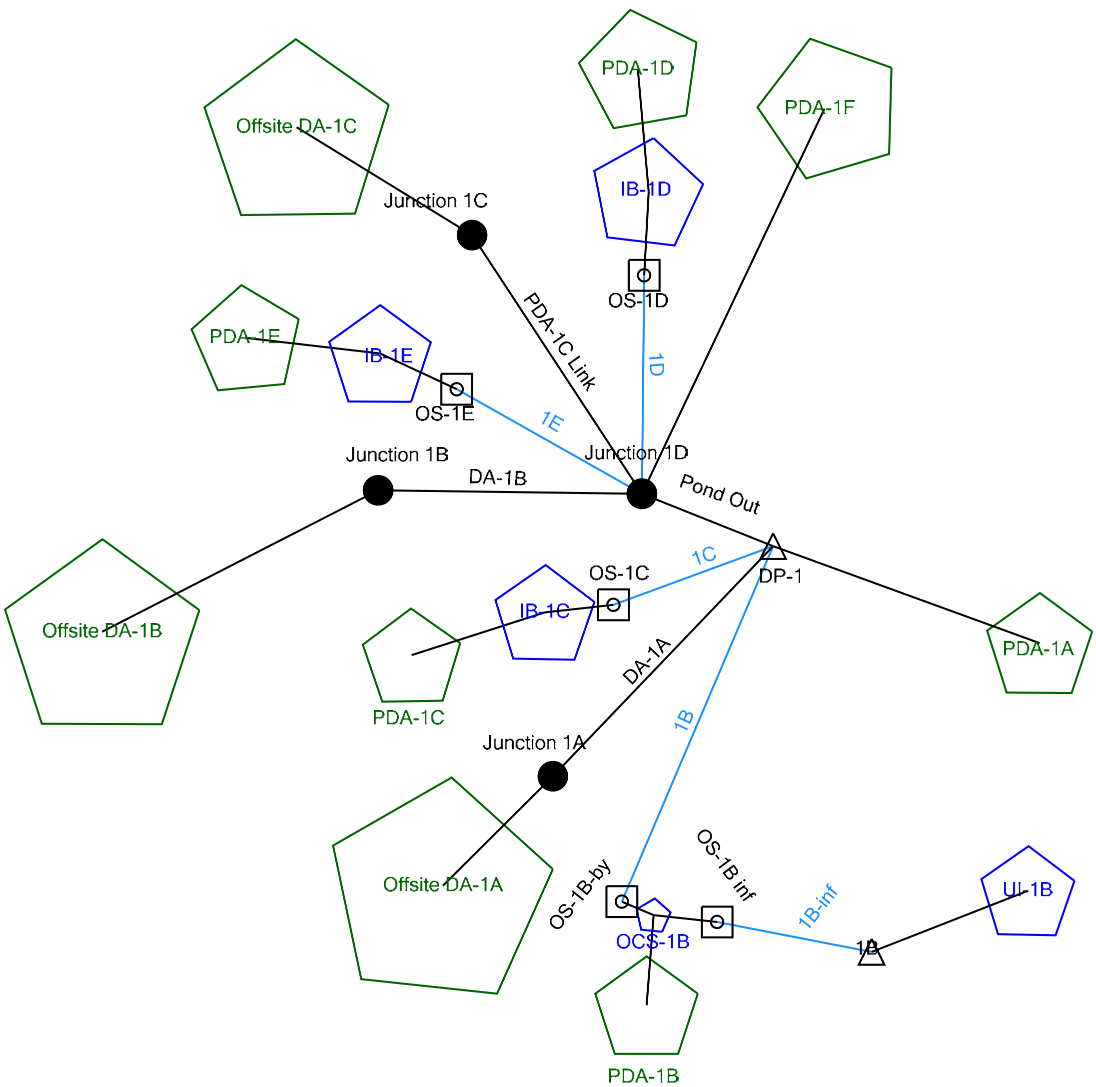
Existing Hydrologic Calculations Report

APPENDIX B

PROPOSED HYDROLOGIC CALCULATIONS

Scenario: Post-Development 1 year



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Proposed Hydrologic Calculations Report

Project Summary

Title	Stormwater Hydrologic Calculations
Engineer	
Company	JMC
Date	5/26/2021

Notes

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
Offsite DA-1B	Post-Development 1 year	1	367,980.000	12.450	60.74
Offsite DA-1B	Post-Development 2 year	2	510,913.000	12.450	85.17
Offsite DA-1B	Post-Development 10 year	10	944,849.000	12.400	158.77
Offsite DA-1B	Post-Development 25 year	25	1,305,044.000	12.400	218.35
Offsite DA-1B	Post-Development 100 year	100	2,056,966.000	12.400	339.37
Offsite DA-1C	Post-Development 1 year	1	236,049.000	12.250	50.25
Offsite DA-1C	Post-Development 2 year	2	322,266.000	12.250	68.95
Offsite DA-1C	Post-Development 10 year	10	580,112.000	12.250	123.37
Offsite DA-1C	Post-Development 25 year	25	791,783.000	12.200	166.76
Offsite DA-1C	Post-Development 100 year	100	1,230,411.000	12.200	255.25
Offsite DA-1A	Post-Development 1 year	1	40,968.000	12.250	7.75
Offsite DA-1A	Post-Development 2 year	2	62,784.000	12.250	12.79
Offsite DA-1A	Post-Development 10 year	10	135,054.000	12.250	29.18
Offsite DA-1A	Post-Development 25 year	25	199,059.000	12.200	43.61
Offsite DA-1A	Post-Development 100 year	100	338,842.000	12.200	74.74
PDA-1A	Post-Development 1 year	1	4,878.000	12.100	1.05
PDA-1A	Post-Development 2 year	2	8,001.000	12.100	2.02
PDA-1A	Post-Development 10 year	10	18,933.000	12.100	5.33
PDA-1A	Post-Development 25 year	25	29,005.000	12.100	8.31

Proposed Hydrologic Calculations Report

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
PDA-1A	Post-Development 100 year	100	51,631.000	12.100	14.82
PDA-1B	Post-Development 1 year	1	28,620.000	12.100	7.89
PDA-1B	Post-Development 2 year	2	36,442.000	12.100	9.91
PDA-1B	Post-Development 10 year	10	58,587.000	12.100	15.45
PDA-1B	Post-Development 25 year	25	76,074.000	12.100	19.72
PDA-1B	Post-Development 100 year	100	111,437.000	12.100	28.22
PDA-1C	Post-Development 1 year	1	6,887.000	12.100	1.94
PDA-1C	Post-Development 2 year	2	8,903.000	12.100	2.47
PDA-1C	Post-Development 10 year	10	14,668.000	12.100	3.95
PDA-1C	Post-Development 25 year	25	19,251.000	12.100	5.09
PDA-1C	Post-Development 100 year	100	28,558.000	12.100	7.37
PDA-1D	Post-Development 1 year	1	27,862.000	12.100	8.01
PDA-1D	Post-Development 2 year	2	37,428.000	12.100	10.69
PDA-1D	Post-Development 10 year	10	65,635.000	12.100	18.36
PDA-1D	Post-Development 25 year	25	88,555.000	12.100	24.37
PDA-1D	Post-Development 100 year	100	135,732.000	12.100	36.37
PDA-1F	Post-Development 1 year	1	50,665.000	12.250	9.80
PDA-1F	Post-Development 2 year	2	75,893.000	12.250	15.53
PDA-1F	Post-Development 10 year	10	157,848.000	12.250	33.82
PDA-1F	Post-Development 25 year	25	229,393.000	12.250	49.46
PDA-1F	Post-Development 100 year	100	384,050.000	12.250	82.39
PDA-1E	Post-Development 1 year	1	37,090.000	12.100	10.67
PDA-1E	Post-Development 2 year	2	50,628.000	12.100	14.54
PDA-1E	Post-Development 10 year	10	91,110.000	12.100	25.74
PDA-1E	Post-Development 25 year	25	124,339.000	12.100	34.61

Proposed Hydrologic Calculations Report

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
PDA-1E	Post-Development 100 year	100	193,191.000	12.100	52.42

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
DP-1	Post-Development 1 year	1	702,724.000	12.400	119.79
DP-1	Post-Development 2 year	2	999,069.000	12.400	176.55
DP-1	Post-Development 10 year	10	1,922,207.000	12.350	343.32
DP-1	Post-Development 25 year	25	2,696,126.000	12.350	483.41
DP-1	Post-Development 100 year	100	4,326,273.000	12.350	765.25
Junction 1B	Post-Development 1 year	1	367,980.000	12.450	60.74
Junction 1B	Post-Development 2 year	2	510,913.000	12.450	85.17
Junction 1B	Post-Development 10 year	10	944,849.000	12.400	158.77
Junction 1B	Post-Development 25 year	25	1,305,044.000	12.400	218.35
Junction 1B	Post-Development 100 year	100	2,056,966.000	12.400	339.37
Junction 1C	Post-Development 1 year	1	236,049.000	12.250	50.25
Junction 1C	Post-Development 2 year	2	322,266.000	12.250	68.95
Junction 1C	Post-Development 10 year	10	580,112.000	12.250	123.37
Junction 1C	Post-Development 25 year	25	791,783.000	12.200	166.76
Junction 1C	Post-Development 100 year	100	1,230,411.000	12.200	255.25
Junction 1D	Post-Development 1 year	1	654,213.000	12.350	111.96
Junction 1D	Post-Development 2 year	2	920,227.000	12.350	159.61
Junction 1D	Post-Development 10 year	10	1,742,233.000	12.350	310.87
Junction 1D	Post-Development 25 year	25	2,428,705.000	12.350	432.40
Junction 1D	Post-Development 100 year	100	3,869,661.000	12.350	675.32
Junction 1A	Post-Development 1 year	1	40,968.000	12.250	7.75

Proposed Hydrologic Calculations Report

Subsection: Master Network Summary

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)
Junction 1A	Post-Development 2 year	2	62,784.000	12.250	12.79
Junction 1A	Post-Development 10 year	10	135,054.000	12.250	29.18
Junction 1A	Post-Development 25 year	25	199,059.000	12.200	43.61
Junction 1A	Post-Development 100 year	100	338,842.000	12.200	74.74

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
IB-1C (IN)	Post-Development 1 year	1	6,887.000	12.100	1.94	(N/A)	(N/A)
IB-1C (OUT)	Post-Development 1 year	1	0.000	0.000	0.00	212.38	1,204.000
IB-1C (IN)	Post-Development 2 year	2	8,903.000	12.100	2.47	(N/A)	(N/A)
IB-1C (OUT)	Post-Development 2 year	2	57.000	12.200	0.11	212.49	1,562.000
IB-1C (IN)	Post-Development 10 year	10	14,668.000	12.100	3.95	(N/A)	(N/A)
IB-1C (OUT)	Post-Development 10 year	10	1,687.000	12.150	1.79	212.67	2,177.000
IB-1C (IN)	Post-Development 25 year	25	19,251.000	12.100	5.09	(N/A)	(N/A)
IB-1C (OUT)	Post-Development 25 year	25	3,325.000	12.150	2.89	212.79	2,578.000
IB-1C (IN)	Post-Development 100 year	100	28,558.000	12.100	7.37	(N/A)	(N/A)
IB-1C (OUT)	Post-Development 100 year	100	7,022.000	12.150	4.93	213.00	3,341.000
IB-1D (IN)	Post-Development 1 year	1	27,862.000	12.100	8.01	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
IB-1D (OUT)	Post-Development 1 year	1	0.000	0.000	0.00	215.73	11,441.000
IB-1D (IN)	Post-Development 2 year	2	37,428.000	12.100	10.69	(N/A)	(N/A)
IB-1D (OUT)	Post-Development 2 year	2	4,230.000	12.550	1.23	216.19	14,949.000
IB-1D (IN)	Post-Development 10 year	10	65,635.000	12.100	18.36	(N/A)	(N/A)
IB-1D (OUT)	Post-Development 10 year	10	22,895.000	12.350	6.40	217.06	22,177.000
IB-1D (IN)	Post-Development 25 year	25	88,555.000	12.100	24.37	(N/A)	(N/A)
IB-1D (OUT)	Post-Development 25 year	25	39,630.000	12.250	10.95	217.66	27,529.000
IB-1D (IN)	Post-Development 100 year	100	135,732.000	12.100	36.37	(N/A)	(N/A)
IB-1D (OUT)	Post-Development 100 year	100	77,027.000	12.250	17.89	218.82	38,975.000
IB-1E (IN)	Post-Development 1 year	1	37,090.000	12.100	10.67	(N/A)	(N/A)
IB-1E (OUT)	Post-Development 1 year	1	0.000	0.000	0.00	239.81	16,860.000
IB-1E (IN)	Post-Development 2 year	2	50,628.000	12.100	14.54	(N/A)	(N/A)
IB-1E (OUT)	Post-Development 2 year	2	7,544.000	12.550	1.80	240.24	21,402.000
IB-1E (IN)	Post-Development 10 year	10	91,110.000	12.100	25.74	(N/A)	(N/A)
IB-1E (OUT)	Post-Development 10 year	10	37,530.000	12.300	10.06	241.11	31,350.000
IB-1E (IN)	Post-Development 25 year	25	124,339.000	12.100	34.61	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
IB-1E (OUT)	Post-Development 25 year	25	64,154.000	12.250	17.45	241.73	38,878.000
IB-1E (IN)	Post-Development 100 year	100	193,191.000	12.100	52.42	(N/A)	(N/A)
IB-1E (OUT)	Post-Development 100 year	100	123,095.000	12.200	29.23	242.84	53,848.000
UI-1B (IN)	Post-Development 1 year	1	28,763.000	12.100	7.76	(N/A)	(N/A)
UI-1B (OUT)	Post-Development 1 year	1	0.000	0.000	0.00	206.38	10,726.000
UI-1B (IN)	Post-Development 2 year	2	32,397.000	12.100	9.75	(N/A)	(N/A)
UI-1B (Reverse)	Post-Development 2 year	2	-102.000	12.400	-0.95	(N/A)	(N/A)
UI-1B (OUT)	Post-Development 2 year	2	0.000	0.000	0.00	206.93	11,773.000
UI-1B (IN)	Post-Development 10 year	10	41,901.000	12.000	11.71	(N/A)	(N/A)
UI-1B (Reverse)	Post-Development 10 year	10	-998.000	12.200	-3.54	(N/A)	(N/A)
UI-1B (OUT)	Post-Development 10 year	10	0.000	0.000	0.00	207.90	13,292.000
UI-1B (IN)	Post-Development 25 year	25	48,249.000	11.900	8.89	(N/A)	(N/A)
UI-1B (Reverse)	Post-Development 25 year	25	-1,253.000	12.250	-3.95	(N/A)	(N/A)
UI-1B (OUT)	Post-Development 25 year	25	0.000	0.000	0.00	208.00	13,449.000
UI-1B (IN)	Post-Development 100 year	100	60,854.000	12.100	11.26	(N/A)	(N/A)
UI-1B (Reverse)	Post-Development 100 year	100	-851.000	12.350	-2.54	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ft³)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ft³)
UI-1B (OUT)	Post-Development 100 year	100	0.000	0.000	0.00	208.00	13,449.000
OCS-1B (IN)	Post-Development 1 year	1	28,620.000	12.100	7.89	(N/A)	(N/A)
OCS-1B (OUT)	Post-Development 1 year	1	29,066.000	12.100	7.76	206.44	66.000
OCS-1B (IN)	Post-Development 2 year	2	36,442.000	12.100	9.91	(N/A)	(N/A)
OCS-1B (OUT)	Post-Development 2 year	2	36,840.000	12.100	9.75	206.89	71.000
OCS-1B (IN)	Post-Development 10 year	10	58,587.000	12.100	15.45	(N/A)	(N/A)
OCS-1B (OUT)	Post-Development 10 year	10	59,517.000	12.100	15.25	207.71	82.000
OCS-1B (IN)	Post-Development 25 year	25	76,074.000	12.100	19.72	(N/A)	(N/A)
OCS-1B (OUT)	Post-Development 25 year	25	77,246.000	12.100	19.49	208.18	88.000
OCS-1B (IN)	Post-Development 100 year	100	111,437.000	12.100	28.22	(N/A)	(N/A)
OCS-1B (OUT)	Post-Development 100 year	100	112,142.000	12.100	27.96	209.16	100.000

Subsection: Time-Depth Curve
Label: Time-Depth - 1
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Time-Depth Curve: 1 year	
Label	1 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	1 years

Proposed Hydrologic Calculations Report

Subsection: Time-Depth Curve | Return Event: 1 years
Label: Time-Depth - 1 | Storm Event: 1 year
Scenario: Post-Development 1 year

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.00	0.00	0.01	0.01	0.01
0.500	0.01	0.02	0.02	0.02	0.02
1.000	0.03	0.03	0.03	0.03	0.04
1.500	0.04	0.04	0.04	0.05	0.05
2.000	0.05	0.05	0.06	0.06	0.06
2.500	0.07	0.07	0.07	0.07	0.08
3.000	0.08	0.08	0.09	0.09	0.09
3.500	0.10	0.10	0.10	0.11	0.11
4.000	0.11	0.12	0.12	0.12	0.13
4.500	0.13	0.13	0.14	0.14	0.14
5.000	0.15	0.15	0.16	0.16	0.16
5.500	0.17	0.17	0.18	0.18	0.18
6.000	0.19	0.19	0.20	0.20	0.21
6.500	0.21	0.22	0.22	0.23	0.23
7.000	0.24	0.24	0.25	0.25	0.26
7.500	0.27	0.27	0.28	0.28	0.29
8.000	0.30	0.30	0.31	0.32	0.33
8.500	0.34	0.34	0.35	0.36	0.37
9.000	0.38	0.39	0.40	0.41	0.42
9.500	0.43	0.44	0.46	0.47	0.48
10.000	0.49	0.51	0.52	0.53	0.55
10.500	0.57	0.58	0.60	0.62	0.63
11.000	0.65	0.67	0.70	0.72	0.75
11.500	0.78	0.82	0.89	0.97	1.09
12.000	1.30	1.52	1.64	1.72	1.79
12.500	1.83	1.86	1.89	1.91	1.94
13.000	1.96	1.98	1.99	2.01	2.03
13.500	2.04	2.06	2.08	2.09	2.10
14.000	2.12	2.13	2.14	2.15	2.17
14.500	2.18	2.19	2.20	2.21	2.22
15.000	2.23	2.24	2.25	2.26	2.27
15.500	2.27	2.28	2.29	2.30	2.31
16.000	2.31	2.32	2.33	2.33	2.34
16.500	2.34	2.35	2.36	2.36	2.37
17.000	2.37	2.38	2.38	2.39	2.39
17.500	2.40	2.40	2.41	2.41	2.42
18.000	2.42	2.43	2.43	2.43	2.44
18.500	2.44	2.45	2.45	2.45	2.46
19.000	2.46	2.47	2.47	2.47	2.48
19.500	2.48	2.48	2.49	2.49	2.49
20.000	2.50	2.50	2.50	2.51	2.51
20.500	2.51	2.52	2.52	2.52	2.53
21.000	2.53	2.53	2.54	2.54	2.54
21.500	2.55	2.55	2.55	2.55	2.56
22.000	2.56	2.56	2.57	2.57	2.57
22.500	2.57	2.58	2.58	2.58	2.58

Proposed Hydrologic Calculations Report

Subsection: Time-Depth Curve | Return Event: 1 years
Label: Time-Depth - 1 | Storm Event: 1 year
Scenario: Post-Development 1 year

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
23.000	2.59	2.59	2.59	2.59	2.60
23.500	2.60	2.60	2.60	2.61	2.61
24.000	2.61	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time-Depth Curve | Return Event: 10 years
Label: Time-Depth - 1 | Storm Event: 10 year
Scenario: Post-Development 10 year

Time-Depth Curve: 10 year	
Label	10 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	10 years

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.00	0.00	0.01	0.01	0.02
0.500	0.02	0.03	0.03	0.04	0.04
1.000	0.05	0.05	0.06	0.06	0.07
1.500	0.07	0.07	0.08	0.08	0.09
2.000	0.09	0.10	0.10	0.11	0.11
2.500	0.12	0.12	0.13	0.13	0.14
3.000	0.14	0.15	0.15	0.16	0.16
3.500	0.17	0.18	0.18	0.19	0.19
4.000	0.20	0.21	0.21	0.22	0.22
4.500	0.23	0.24	0.24	0.25	0.26
5.000	0.26	0.27	0.28	0.28	0.29
5.500	0.30	0.31	0.31	0.32	0.33
6.000	0.33	0.34	0.35	0.36	0.37
6.500	0.37	0.38	0.39	0.40	0.41
7.000	0.42	0.43	0.44	0.45	0.46
7.500	0.47	0.48	0.49	0.51	0.52
8.000	0.53	0.54	0.56	0.57	0.58
8.500	0.60	0.61	0.63	0.64	0.66
9.000	0.68	0.70	0.71	0.73	0.75
9.500	0.77	0.79	0.81	0.83	0.86
10.000	0.88	0.90	0.93	0.95	0.98
10.500	1.01	1.04	1.07	1.10	1.13
11.000	1.16	1.20	1.24	1.28	1.33
11.500	1.39	1.46	1.58	1.74	1.93
12.000	2.32	2.72	2.91	3.07	3.19

Proposed Hydrologic Calculations Report

Subsection: Time-Depth Curve — Return Event: 10 years
Label: Time-Depth - 1 — Storm Event: 10 year
Scenario: Post-Development 10 year

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
12.500	3.26	3.32	3.37	3.41	3.45
13.000	3.49	3.52	3.55	3.58	3.61
13.500	3.64	3.67	3.70	3.72	3.75
14.000	3.77	3.79	3.82	3.84	3.86
14.500	3.88	3.90	3.92	3.94	3.95
15.000	3.97	3.99	4.01	4.02	4.04
15.500	4.05	4.07	4.08	4.09	4.11
16.000	4.12	4.13	4.14	4.16	4.17
16.500	4.18	4.19	4.20	4.21	4.22
17.000	4.23	4.24	4.25	4.26	4.27
17.500	4.28	4.28	4.29	4.30	4.31
18.000	4.32	4.32	4.33	4.34	4.34
18.500	4.35	4.36	4.37	4.37	4.38
19.000	4.39	4.39	4.40	4.41	4.41
19.500	4.42	4.43	4.43	4.44	4.44
20.000	4.45	4.46	4.46	4.47	4.47
20.500	4.48	4.49	4.49	4.50	4.50
21.000	4.51	4.51	4.52	4.52	4.53
21.500	4.53	4.54	4.55	4.55	4.56
22.000	4.56	4.57	4.57	4.58	4.58
22.500	4.58	4.59	4.59	4.60	4.60
23.000	4.61	4.61	4.62	4.62	4.63
23.500	4.63	4.63	4.64	4.64	4.65
24.000	4.65	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time-Depth Curve — Return Event: 100 years
Label: Time-Depth - 1 — Storm Event: 100 year
Scenario: Post-Development 100 year

Time-Depth Curve: 100 year	
Label	100 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	100 years

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.00	0.01	0.02	0.02	0.03
0.500	0.04	0.05	0.06	0.07	0.07
1.000	0.08	0.09	0.10	0.11	0.11
1.500	0.12	0.13	0.14	0.15	0.16

Proposed Hydrologic Calculations Report

Subsection: Time-Depth Curve Return Event: 100 years
Label: Time-Depth - 1 Storm Event: 100 year
Scenario: Post-Development 100 year

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
2.000	0.16	0.17	0.18	0.19	0.20
2.500	0.21	0.21	0.22	0.23	0.24
3.000	0.25	0.26	0.27	0.28	0.29
3.500	0.30	0.31	0.32	0.33	0.34
4.000	0.35	0.36	0.37	0.38	0.39
4.500	0.41	0.42	0.43	0.44	0.45
5.000	0.46	0.48	0.49	0.50	0.51
5.500	0.52	0.54	0.55	0.56	0.58
6.000	0.59	0.60	0.62	0.63	0.64
6.500	0.66	0.67	0.69	0.71	0.72
7.000	0.74	0.76	0.77	0.79	0.81
7.500	0.83	0.85	0.87	0.89	0.91
8.000	0.93	0.95	0.98	1.00	1.02
8.500	1.05	1.08	1.10	1.13	1.16
9.000	1.19	1.22	1.25	1.29	1.32
9.500	1.36	1.39	1.43	1.47	1.50
10.000	1.54	1.59	1.63	1.67	1.72
10.500	1.77	1.82	1.87	1.93	1.98
11.000	2.04	2.11	2.18	2.26	2.34
11.500	2.43	2.57	2.77	3.05	3.40
12.000	4.08	4.77	5.12	5.40	5.60
12.500	5.74	5.83	5.91	5.99	6.06
13.000	6.13	6.19	6.24	6.30	6.35
13.500	6.40	6.45	6.50	6.54	6.58
14.000	6.63	6.67	6.70	6.74	6.78
14.500	6.81	6.85	6.88	6.92	6.95
15.000	6.98	7.01	7.04	7.07	7.09
15.500	7.12	7.15	7.17	7.19	7.22
16.000	7.24	7.26	7.28	7.30	7.32
16.500	7.34	7.36	7.38	7.40	7.41
17.000	7.43	7.45	7.46	7.48	7.50
17.500	7.51	7.53	7.54	7.55	7.57
18.000	7.58	7.59	7.61	7.62	7.63
18.500	7.65	7.66	7.67	7.68	7.69
19.000	7.71	7.72	7.73	7.74	7.75
19.500	7.76	7.78	7.79	7.80	7.81
20.000	7.82	7.83	7.84	7.85	7.86
20.500	7.87	7.88	7.89	7.90	7.91
21.000	7.92	7.93	7.94	7.95	7.96
21.500	7.97	7.98	7.99	7.99	8.00
22.000	8.01	8.02	8.03	8.04	8.05
22.500	8.06	8.06	8.07	8.08	8.09
23.000	8.10	8.10	8.11	8.12	8.13
23.500	8.13	8.14	8.15	8.16	8.16
24.000	8.17	(N/A)	(N/A)	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Time-Depth Curve | Return Event: 2 years
Label: Time-Depth - 1 | Storm Event: 2 year
Scenario: Post-Development 2 year

Time-Depth Curve: 2 year	
Label	2 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	2 years

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.00	0.00	0.01	0.01	0.01
0.500	0.02	0.02	0.02	0.03	0.03
1.000	0.03	0.03	0.04	0.04	0.04
1.500	0.05	0.05	0.05	0.06	0.06
2.000	0.06	0.07	0.07	0.07	0.08
2.500	0.08	0.08	0.09	0.09	0.09
3.000	0.10	0.10	0.10	0.11	0.11
3.500	0.12	0.12	0.12	0.13	0.13
4.000	0.14	0.14	0.14	0.15	0.15
4.500	0.16	0.16	0.17	0.17	0.17
5.000	0.18	0.18	0.19	0.19	0.20
5.500	0.20	0.21	0.21	0.22	0.22
6.000	0.23	0.23	0.24	0.24	0.25
6.500	0.25	0.26	0.27	0.27	0.28
7.000	0.29	0.29	0.30	0.31	0.31
7.500	0.32	0.33	0.34	0.34	0.35
8.000	0.36	0.37	0.38	0.39	0.39
8.500	0.40	0.41	0.43	0.44	0.45
9.000	0.46	0.47	0.48	0.50	0.51
9.500	0.52	0.54	0.55	0.57	0.58
10.000	0.60	0.61	0.63	0.65	0.66
10.500	0.68	0.70	0.72	0.74	0.76
11.000	0.79	0.81	0.84	0.87	0.90
11.500	0.94	0.99	1.07	1.18	1.31
12.000	1.57	1.84	1.97	2.08	2.16
12.500	2.21	2.25	2.28	2.31	2.34
13.000	2.36	2.39	2.41	2.43	2.45
13.500	2.47	2.49	2.50	2.52	2.54
14.000	2.55	2.57	2.58	2.60	2.61
14.500	2.63	2.64	2.65	2.67	2.68
15.000	2.69	2.70	2.71	2.72	2.74
15.500	2.75	2.76	2.76	2.77	2.78
16.000	2.79	2.80	2.81	2.81	2.82
16.500	2.83	2.84	2.84	2.85	2.86
17.000	2.86	2.87	2.88	2.88	2.89
17.500	2.90	2.90	2.91	2.91	2.92
18.000	2.92	2.93	2.93	2.94	2.94
18.500	2.95	2.95	2.96	2.96	2.97

Subsection: Time-Depth Curve — Return Event: 2 years
Label: Time-Depth - 1 — Storm Event: 2 year
Scenario: Post-Development 2 year

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
19.000	2.97	2.98	2.98	2.98	2.99
19.500	2.99	3.00	3.00	3.01	3.01
20.000	3.01	3.02	3.02	3.03	3.03
20.500	3.03	3.04	3.04	3.05	3.05
21.000	3.05	3.06	3.06	3.06	3.07
21.500	3.07	3.08	3.08	3.08	3.09
22.000	3.09	3.09	3.10	3.10	3.10
22.500	3.11	3.11	3.11	3.12	3.12
23.000	3.12	3.12	3.13	3.13	3.13
23.500	3.14	3.14	3.14	3.14	3.15
24.000	3.15	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time-Depth Curve — Return Event: 25 years
Label: Time-Depth - 1 — Storm Event: 25 year
Scenario: Post-Development 25 year

Time-Depth Curve: 25 year	
Label	25 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	25 years

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.00	0.01	0.01	0.02	0.02
0.500	0.03	0.03	0.04	0.05	0.05
1.000	0.06	0.06	0.07	0.08	0.08
1.500	0.09	0.09	0.10	0.10	0.11
2.000	0.12	0.12	0.13	0.13	0.14
2.500	0.15	0.15	0.16	0.17	0.17
3.000	0.18	0.19	0.19	0.20	0.21
3.500	0.21	0.22	0.23	0.24	0.24
4.000	0.25	0.26	0.27	0.27	0.28
4.500	0.29	0.30	0.31	0.31	0.32
5.000	0.33	0.34	0.35	0.36	0.36
5.500	0.37	0.38	0.39	0.40	0.41
6.000	0.42	0.43	0.44	0.45	0.46
6.500	0.47	0.48	0.49	0.50	0.51
7.000	0.53	0.54	0.55	0.56	0.58
7.500	0.59	0.61	0.62	0.63	0.65
8.000	0.66	0.68	0.70	0.71	0.73

Proposed Hydrologic Calculations Report

Subsection: Time-Depth Curve — Return Event: 25 years
Label: Time-Depth - 1 — Storm Event: 25 year
Scenario: Post-Development 25 year

CUMULATIVE RAINFALL (in)
Output Time Increment = 0.100 hours
Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
8.500	0.75	0.77	0.79	0.81	0.83
9.000	0.85	0.87	0.89	0.92	0.94
9.500	0.97	0.99	1.02	1.04	1.07
10.000	1.10	1.13	1.16	1.19	1.23
10.500	1.26	1.30	1.33	1.37	1.41
11.000	1.45	1.50	1.55	1.61	1.67
11.500	1.73	1.83	1.98	2.17	2.42
12.000	2.91	3.40	3.65	3.84	3.99
12.500	4.09	4.15	4.21	4.27	4.32
13.000	4.36	4.41	4.45	4.49	4.52
13.500	4.56	4.59	4.63	4.66	4.69
14.000	4.72	4.75	4.78	4.80	4.83
14.500	4.85	4.88	4.90	4.93	4.95
15.000	4.97	4.99	5.01	5.03	5.05
15.500	5.07	5.09	5.11	5.12	5.14
16.000	5.16	5.17	5.19	5.20	5.21
16.500	5.23	5.24	5.26	5.27	5.28
17.000	5.29	5.31	5.32	5.33	5.34
17.500	5.35	5.36	5.37	5.38	5.39
18.000	5.40	5.41	5.42	5.43	5.44
18.500	5.45	5.46	5.46	5.47	5.48
19.000	5.49	5.50	5.51	5.51	5.52
19.500	5.53	5.54	5.55	5.55	5.56
20.000	5.57	5.58	5.58	5.59	5.60
20.500	5.61	5.61	5.62	5.63	5.64
21.000	5.64	5.65	5.66	5.66	5.67
21.500	5.68	5.68	5.69	5.70	5.70
22.000	5.71	5.71	5.72	5.73	5.73
22.500	5.74	5.74	5.75	5.76	5.76
23.000	5.77	5.77	5.78	5.78	5.79
23.500	5.79	5.80	5.80	5.81	5.81
24.000	5.82	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time of Concentration Calculations — Return Event: 1 years
Label: Offsite DA-1A — Storm Event: 1 year
Scenario: Post-Development 1 year

Time of Concentration Results

Segment #1: TR-55 Sheet Flow

Hydraulic Length	150.00 ft
Manning's n	0.170
Slope	0.067 ft/ft
2 Year 24 Hour Depth	3.20 in
Average Velocity	0.27 ft/s

Proposed Hydrologic Calculations Report

Subsection: Time of Concentration Calculations
Label: Offsite DA-1A
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Segment #1: TR-55 Sheet Flow	
Segment Time of Concentration	0.154 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	1,141.00 ft
Is Paved?	False
Slope	0.080 ft/ft
Average Velocity	4.56 ft/s
Segment Time of Concentration	0.069 hours

Segment #3: TR-55 Channel Flow	
Flow Area	40.0 ft²
Hydraulic Length	1,226.00 ft
Manning's n	0.170
Slope	0.040 ft/ft
Wetted Perimeter	10.00 ft
Average Velocity	4.42 ft/s
Segment Time of Concentration	0.077 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.300 hours

==== SCS Channel Flow

Tc =
R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc =
Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Proposed Hydrologic Calculations Report

Subsection: Time of Concentration Calculations — Return Event: 1 years
Label: Offsite DA-1A — Storm Event: 1 year
Scenario: Post-Development 1 year

==== SCS TR-55 Shallow Concentration Flow

Where:	V= Velocity, ft/sec Sf= Slope, ft/ft Tc= Time of concentration, hours Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =	(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))
Where:	Tc= Time of concentration, hours n= Manning's n Lf= Flow length, feet P= 2yr, 24hr Rain depth, inches Sf= Slope, %

Subsection: Time of Concentration Calculations — Return Event: 1 years
Label: Offsite DA-1B — Storm Event: 1 year
Scenario: Post-Development 1 year

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	150.00 ft
Manning's n	0.170
Slope	0.053 ft/ft
2 Year 24 Hour Depth	3.20 in
Average Velocity	0.25 ft/s
Segment Time of Concentration	0.169 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	305.00 ft
Is Paved?	False
Slope	0.085 ft/ft
Average Velocity	4.70 ft/s
Segment Time of Concentration	0.018 hours

Segment #3: TR-55 Channel Flow	
Flow Area	36.0 ft^2
Hydraulic Length	4,837.50 ft
Manning's n	0.170
Slope	0.058 ft/ft
Wetted Perimeter	18.00 ft
Average Velocity	3.35 ft/s
Segment Time of Concentration	0.401 hours

Time of Concentration (Composite)

Subsection: Time of Concentration Calculations Return Event: 1 years
Label: Offsite DA-1B Storm Event: 1 year
Scenario: Post-Development 1 year

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.588 hours

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where: R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where: V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where: Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Subsection: Time of Concentration Calculations Return Event: 1 years
Label: Offsite DA-1C Storm Event: 1 year
Scenario: Post-Development 1 year

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	150.00 ft
Manning's n	0.170
Slope	0.053 ft/ft
2 Year 24 Hour Depth	3.20 in
Average Velocity	0.25 ft/s

Proposed Hydrologic Calculations Report

Subsection: Time of Concentration Calculations | Return Event: 1 years
Label: Offsite DA-1C | Storm Event: 1 year
Scenario: Post-Development 1 year

Segment #1: TR-55 Sheet Flow	
Segment Time of Concentration	0.169 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	523.00 ft
Is Paved?	False
Slope	0.050 ft/ft
Average Velocity	3.61 ft/s
Segment Time of Concentration	0.040 hours

Segment #3: TR-55 Channel Flow	
Flow Area	36.0 ft²
Hydraulic Length	1,536.00 ft
Manning's n	0.170
Slope	0.070 ft/ft
Wetted Perimeter	18.00 ft
Average Velocity	3.68 ft/s
Segment Time of Concentration	0.116 hours

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.325 hours

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Proposed Hydrologic Calculations Report

Subsection: Time of Concentration Calculations	Return Event: 1 years
Label: Offsite DA-1C	Storm Event: 1 year
Scenario: Post-Development 1 year	

==== SCS TR-55 Shallow Concentration Flow

Where:	V= Velocity, ft/sec
	Sf= Slope, ft/ft
	Tc= Time of concentration, hours
	Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc =	(0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))
Where:	Tc= Time of concentration, hours
	n= Manning's n
	Lf= Flow length, feet
	P= 2yr, 24hr Rain depth, inches
	Sf= Slope, %

Subsection: Time of Concentration Calculations	Return Event: 1 years
Label: PDA-1F	Storm Event: 1 year
Scenario: Post-Development 1 year	

Time of Concentration Results

Segment #1: TR-55 Sheet Flow	
Hydraulic Length	150.00 ft
Manning's n	0.170
Slope	0.040 ft/ft
2 Year 24 Hour Depth	3.20 in
Average Velocity	0.22 ft/s
Segment Time of Concentration	0.189 hours

Segment #2: TR-55 Shallow Concentrated Flow	
Hydraulic Length	716.00 ft
Is Paved?	False
Slope	0.090 ft/ft
Average Velocity	4.84 ft/s
Segment Time of Concentration	0.041 hours

Segment #3: TR-55 Channel Flow	
Flow Area	36.0 ft²
Hydraulic Length	1,334.00 ft
Manning's n	0.170
Slope	0.088 ft/ft
Wetted Perimeter	18.00 ft
Average Velocity	4.13 ft/s
Segment Time of Concentration	0.090 hours

Time of Concentration (Composite)

Proposed Hydrologic Calculations Report

Subsection: Time of Concentration Calculations
Label: PDA-1F
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Time of Concentration (Composite)	
Time of Concentration (Composite)	0.320 hours

==== SCS Channel Flow

Tc = R = Qa / Wp
V = (1.49 * (R**(2/3)) * (Sf**-0.5)) / n

(Lf / V) / 3600

Where:
R= Hydraulic radius
Aq= Flow area, square feet
Wp= Wetted perimeter, feet
V= Velocity, ft/sec
Sf= Slope, ft/ft
n= Manning's n
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Shallow Concentration Flow

Tc = Unpaved surface:
V = 16.1345 * (Sf**0.5)

Paved Surface:
V = 20.3282 * (Sf**0.5)

(Lf / V) / 3600

Where:
V= Velocity, ft/sec
Sf= Slope, ft/ft
Tc= Time of concentration, hours
Lf= Flow length, feet

==== SCS TR-55 Sheet Flow

Tc = (0.007 * ((n * Lf)**0.8)) / ((P**0.5) * (Sf**0.4))

Where:
Tc= Time of concentration, hours
n= Manning's n
Lf= Flow length, feet
P= 2yr, 24hr Rain depth, inches
Sf= Slope, %

Subsection: Runoff CN-Area
Label: Offsite DA-1A
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Farmsteads - ---- - Soil A	59.000	8.308	0.0	0.0	59.000
Farmsteads - ---- - Soil C	82.000	11.022	0.0	0.0	82.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	19.330	(N/A)	(N/A)	72.115

Proposed Hydrologic Calculations Report

Subsection: Runoff CN-Area | Return Event: 1 years
Label: Offsite DA-1B | Storm Event: 1 year
Scenario: Post-Development 1 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Farmsteads - ---- - Soil C	82.000	80.133	0.0	0.0	82.000
Farmsteads - ---- - Soil D	86.000	13.674	0.0	0.0	86.000
CN Description	59.000	0.809	0.0	0.0	59.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	94.616	(N/A)	(N/A)	82.381

Subsection: Runoff CN-Area | Return Event: 1 years
Label: Offsite DA-1C | Storm Event: 1 year
Scenario: Post-Development 1 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Farmsteads - ---- - Soil C	82.000	31.050	0.0	0.0	82.000
Farmsteads - ---- - Soil D	86.000	23.267	0.0	0.0	86.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	54.317	(N/A)	(N/A)	83.713

Subsection: Runoff CN-Area | Return Event: 1 years
Label: PDA-1A | Storm Event: 1 year
Scenario: Post-Development 1 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C	74.000	1.799	0.0	0.0	74.000
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	0.540	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	1.001	0.0	0.0	39.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	3.340	(N/A)	(N/A)	67.391

Subsection: Runoff CN-Area | Return Event: 1 years
Label: PDA-1B | Storm Event: 1 year
Scenario: Post-Development 1 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious Areas - Paved parking lots, roofs, driveways, Streets and roads - Soil A	98.000	3.260	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C	74.000	0.930	0.0	0.0	74.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	4.190	(N/A)	(N/A)	92.673

Proposed Hydrologic Calculations Report

Subsection: Runoff CN-Area | Return Event: 1 years
Label: PDA-1C | Storm Event: 1 year
Scenario: Post-Development 1 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
CN Description	98.000	0.830	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C	74.000	0.241	0.0	0.0	74.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	0.039	0.0	0.0	39.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	1.110	(N/A)	(N/A)	90.716

Subsection: Runoff CN-Area | Return Event: 1 years
Label: PDA-1D | Storm Event: 1 year
Scenario: Post-Development 1 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
CN Description	98.000	2.900	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	0.018	0.0	0.0	39.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C	74.000	2.643	0.0	0.0	74.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil D	80.000	0.199	0.0	0.0	80.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	5.760	(N/A)	(N/A)	86.181

Subsection: Runoff CN-Area | Return Event: 1 years
Label: PDA-1E | Storm Event: 1 year
Scenario: Post-Development 1 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
CN Description	98.000	4.530	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	0.725	0.0	0.0	39.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C	74.000	2.605	0.0	0.0	74.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil D	80.000	0.650	0.0	0.0	80.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	8.510	(N/A)	(N/A)	84.252

Subsection: Runoff CN-Area | Return Event: 1 years
Label: PDA-1F | Storm Event: 1 year
Scenario: Post-Development 1 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN

Proposed Hydrologic Calculations Report

Subsection: Runoff CN-Area — Return Event: 1 years
Label: PDA-1F — Storm Event: 1 year
Scenario: Post-Development 1 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
CN Description	98.000	0.110	0.0	0.0	98.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil A	39.000	0.371	0.0	0.0	39.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil C	74.000	17.915	0.0	0.0	74.000
Open space (Lawns,parks etc.) - Good condition; grass cover > 75% - Soil D	80.000	2.504	0.0	0.0	80.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	20.900	(N/A)	(N/A)	74.224

Subsection: Unit Hydrograph Summary — Return Event: 1 years
Label: Offsite DA-1A — Storm Event: 1 year
Scenario: Post-Development 1 year

Storm Event	1 year
Return Event	1 years
Duration	24.000 hours
Depth	2.61 in
Time of Concentration (Composite)	0.300 hours
Area (User Defined)	19.330 acres

Computational Time Increment	0.040 hours
Time to Peak (Computed)	12.260 hours
Flow (Peak, Computed)	7.79 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	7.75 ft³/s

Drainage Area

SCS CN (Composite)	72.000
Area (User Defined)	19.330 acres
Maximum Retention (Pervious)	3.89 in
Maximum Retention (Pervious, 20 percent)	0.78 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	0.59 in
Runoff Volume (Pervious)	41,173.184 ft³

Hydrograph Volume (Area under Hydrograph curve)

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary
Label: Offsite DA-1A
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Hydrograph Volume (Area under Hydrograph curve)	
Volume	40,968.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.300 hours
Computational Time Increment	0.040 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	72.89 ft³/s
Unit peak time, Tp	0.200 hours
Unit receding limb, Tr	0.801 hours
Total unit time, Tb	1.002 hours

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 2 years
Label: Offsite DA-1A — Storm Event: 2 year
Scenario: Post-Development 2 year

Storm Event	2 year
Return Event	2 years
Duration	24.000 hours
Depth	3.15 in
Time of Concentration (Composite)	0.300 hours
Area (User Defined)	19.330 acres

Computational Time Increment	0.040 hours
Time to Peak (Computed)	12.260 hours
Flow (Peak, Computed)	12.80 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	12.79 ft³/s

Drainage Area

SCS CN (Composite)	72.000
Area (User Defined)	19.330 acres
Maximum Retention (Pervious)	3.89 in
Maximum Retention (Pervious, 20 percent)	0.78 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	0.90 in
Runoff Volume (Pervious)	63,066.374 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	62,784.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.300 hours
Computational Time Increment	0.040 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	72.89 ft³/s
Unit peak time, Tp	0.200 hours
Unit receding limb, Tr	0.801 hours
Total unit time, Tb	1.002 hours

Proposed Hydrologic Calculations Report

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 10 years
Label: Offsite DA-1A — Storm Event: 10 year
Scenario: Post-Development 10 year

Storm Event	10 year
Return Event	10 years
Duration	24.000 hours
Depth	4.65 in
Time of Concentration (Composite)	0.300 hours
Area (User Defined)	19.330 acres

Computational Time Increment	0.040 hours
Time to Peak (Computed)	12.220 hours
Flow (Peak, Computed)	29.56 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	29.18 ft³/s

Drainage Area	
SCS CN (Composite)	72.000
Area (User Defined)	19.330 acres
Maximum Retention (Pervious)	3.89 in
Maximum Retention (Pervious, 20 percent)	0.78 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.93 in
Runoff Volume (Pervious)	135,561.108 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	135,054.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.300 hours
Computational Time Increment	0.040 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	72.89 ft³/s
Unit peak time, Tp	0.200 hours
Unit receding limb, Tr	0.801 hours
Total unit time, Tb	1.002 hours

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary
Label: Offsite DA-1A
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 25 years
Label: Offsite DA-1A | Storm Event: 25 year
Scenario: Post-Development 25 year

Storm Event	25 year
Return Event	25 years
Duration	24.000 hours
Depth	5.82 in
Time of Concentration (Composite)	0.300 hours
Area (User Defined)	19.330 acres

Computational Time Increment	0.040 hours
Time to Peak (Computed)	12.220 hours
Flow (Peak, Computed)	44.18 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	43.61 ft³/s

Drainage Area	
SCS CN (Composite)	72.000
Area (User Defined)	19.330 acres
Maximum Retention (Pervious)	3.89 in
Maximum Retention (Pervious, 20 percent)	0.78 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.85 in
Runoff Volume (Pervious)	199,745.495 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	199,059.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.300 hours
Computational Time Increment	0.040 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	72.89 ft³/s
Unit peak time, Tp	0.200 hours
Unit receding limb, Tr	0.801 hours
Total unit time, Tb	1.002 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 100 years
Label: Offsite DA-1A — Storm Event: 100 year
Scenario: Post-Development 100 year

Storm Event	100 year
Return Event	100 years
Duration	24.000 hours
Depth	8.17 in
Time of Concentration (Composite)	0.300 hours
Area (User Defined)	19.330 acres

Computational Time Increment	0.040 hours
Time to Peak (Computed)	12.220 hours
Flow (Peak, Computed)	75.39 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	74.74 ft³/s

Drainage Area

SCS CN (Composite)	72.000
Area (User Defined)	19.330 acres
Maximum Retention (Pervious)	3.89 in
Maximum Retention (Pervious, 20 percent)	0.78 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	4.84 in
Runoff Volume (Pervious)	339,888.655 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	338,842.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.300 hours
Computational Time Increment	0.040 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	72.89 ft³/s
Unit peak time, Tp	0.200 hours
Unit receding limb, Tr	0.801 hours
Total unit time, Tb	1.002 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Storm Event	1 year
Return Event	1 years
Duration	24.000 hours
Depth	2.61 in
Time of Concentration (Composite)	0.588 hours
Area (User Defined)	94.616 acres

Computational Time Increment	0.078 hours
Time to Peak (Computed)	12.468 hours
Flow (Peak, Computed)	60.86 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.450 hours
Flow (Peak Interpolated Output)	60.74 ft³/s

Drainage Area	
SCS CN (Composite)	82.000
Area (User Defined)	94.616 acres
Maximum Retention (Pervious)	2.20 in
Maximum Retention (Pervious, 20 percent)	0.44 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.08 in
Runoff Volume (Pervious)	370,755.591 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	367,980.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.588 hours
Computational Time Increment	0.078 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	182.29 ft³/s
Unit peak time, Tp	0.392 hours
Unit receding limb, Tr	1.568 hours
Total unit time, Tb	1.960 hours

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary

Return Event: 1 years

Label: Offsite DA-1B

Storm Event: 1 year

Scenario: Post-Development 1 year

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 2 years
Label: Offsite DA-1B | Storm Event: 2 year
Scenario: Post-Development 2 year

Storm Event	2 year
Return Event	2 years
Duration	24.000 hours
Depth	3.15 in
Time of Concentration (Composite)	0.588 hours
Area (User Defined)	94.616 acres

Computational Time Increment	0.078 hours
Time to Peak (Computed)	12.468 hours
Flow (Peak, Computed)	85.18 ft^3/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.450 hours
Flow (Peak Interpolated Output)	85.17 ft^3/s

Drainage Area	
SCS CN (Composite)	82.000
Area (User Defined)	94.616 acres
Maximum Retention (Pervious)	2.20 in
Maximum Retention (Pervious, 20 percent)	0.44 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.50 in
Runoff Volume (Pervious)	514,501.082 ft^3

Hydrograph Volume (Area under Hydrograph curve)	
Volume	510,913.000 ft^3

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.588 hours
Computational Time Increment	0.078 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	182.29 ft^3/s
Unit peak time, Tp	0.392 hours
Unit receding limb, Tr	1.568 hours
Total unit time, Tb	1.960 hours

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary	Return Event: 2 years
Label: Offsite DA-1B	Storm Event: 2 year
Scenario: Post-Development 2 year	

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Storm Event	10 year
Return Event	10 years
Duration	24.000 hours
Depth	4.65 in
Time of Concentration (Composite)	0.588 hours
Area (User Defined)	94.616 acres

Computational Time Increment	0.078 hours
Time to Peak (Computed)	12.389 hours
Flow (Peak, Computed)	159.03 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.400 hours
Flow (Peak Interpolated Output)	158.77 ft³/s

Drainage Area

SCS CN (Composite)	82.000
Area (User Defined)	94.616 acres
Maximum Retention (Pervious)	2.20 in
Maximum Retention (Pervious, 20 percent)	0.44 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	2.77 in
Runoff Volume (Pervious)	950,699.249 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	944,849.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.588 hours
Computational Time Increment	0.078 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	182.29 ft³/s
Unit peak time, Tp	0.392 hours
Unit receding limb, Tr	1.568 hours
Total unit time, Tb	1.960 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 25 years
Label: Offsite DA-1B | Storm Event: 25 year
Scenario: Post-Development 25 year

Storm Event	25 year
Return Event	25 years
Duration	24.000 hours
Depth	5.82 in
Time of Concentration (Composite)	0.588 hours
Area (User Defined)	94.616 acres

Computational Time Increment	0.078 hours
Time to Peak (Computed)	12.389 hours
Flow (Peak, Computed)	218.86 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.400 hours
Flow (Peak Interpolated Output)	218.35 ft³/s

Drainage Area

SCS CN (Composite)	82.000
Area (User Defined)	94.616 acres
Maximum Retention (Pervious)	2.20 in
Maximum Retention (Pervious, 20 percent)	0.44 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	3.82 in
Runoff Volume (Pervious)	1,312,646.344 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	1,305,044.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.588 hours
Computational Time Increment	0.078 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	182.29 ft³/s
Unit peak time, Tp	0.392 hours
Unit receding limb, Tr	1.568 hours
Total unit time, Tb	1.960 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 100 years
Label: Offsite DA-1B | Storm Event: 100 year
Scenario: Post-Development 100 year

Storm Event	100 year
Return Event	100 years
Duration	24.000 hours
Depth	8.17 in
Time of Concentration (Composite)	0.588 hours
Area (User Defined)	94.616 acres

Computational Time Increment	0.078 hours
Time to Peak (Computed)	12.389 hours
Flow (Peak, Computed)	340.42 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.400 hours
Flow (Peak Interpolated Output)	339.37 ft³/s

Drainage Area

SCS CN (Composite)	82.000
Area (User Defined)	94.616 acres
Maximum Retention (Pervious)	2.20 in
Maximum Retention (Pervious, 20 percent)	0.44 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	6.02 in
Runoff Volume (Pervious)	2,068,051.307 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	2,056,966.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.588 hours
Computational Time Increment	0.078 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	182.29 ft³/s
Unit peak time, Tp	0.392 hours
Unit receding limb, Tr	1.568 hours
Total unit time, Tb	1.960 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 1 years
Label: Offsite DA-1C | Storm Event: 1 year
Scenario: Post-Development 1 year

Storm Event	1 year
Return Event	1 years
Duration	24.000 hours
Depth	2.61 in
Time of Concentration (Composite)	0.325 hours
Area (User Defined)	54.317 acres

Computational Time Increment	0.043 hours
Time to Peak (Computed)	12.229 hours
Flow (Peak, Computed)	50.57 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	50.25 ft³/s

Drainage Area

SCS CN (Composite)	84.000
Area (User Defined)	54.317 acres
Maximum Retention (Pervious)	1.90 in
Maximum Retention (Pervious, 20 percent)	0.38 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	1.20 in
Runoff Volume (Pervious)	236,990.357 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	236,049.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.325 hours
Computational Time Increment	0.043 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	189.23 ft³/s
Unit peak time, Tp	0.217 hours
Unit receding limb, Tr	0.867 hours
Total unit time, Tb	1.084 hours

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 1 years
Label: Offsite DA-1C | Storm Event: 1 year
Scenario: Post-Development 1 year

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 2 years
Label: Offsite DA-1C | Storm Event: 2 year
Scenario: Post-Development 2 year

Storm Event	2 year
Return Event	2 years
Duration	24.000 hours
Depth	3.15 in
Time of Concentration (Composite)	0.325 hours
Area (User Defined)	54.317 acres

Computational Time Increment	0.043 hours
Time to Peak (Computed)	12.229 hours
Flow (Peak, Computed)	69.58 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	68.95 ft³/s

Drainage Area	
SCS CN (Composite)	84.000
Area (User Defined)	54.317 acres
Maximum Retention (Pervious)	1.90 in
Maximum Retention (Pervious, 20 percent)	0.38 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.64 in
Runoff Volume (Pervious)	323,468.713 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	322,266.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.325 hours
Computational Time Increment	0.043 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	189.23 ft³/s
Unit peak time, Tp	0.217 hours
Unit receding limb, Tr	0.867 hours
Total unit time, Tb	1.084 hours

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 2 years
Label: Offsite DA-1C | Storm Event: 2 year
Scenario: Post-Development 2 year

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 10 years
Label: Offsite DA-1C | Storm Event: 10 year
Scenario: Post-Development 10 year

Storm Event	10 year
Return Event	10 years
Duration	24.000 hours
Depth	4.65 in
Time of Concentration (Composite)	0.325 hours
Area (User Defined)	54.317 acres

Computational Time Increment	0.043 hours
Time to Peak (Computed)	12.229 hours
Flow (Peak, Computed)	125.00 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	123.37 ft³/s

Drainage Area

SCS CN (Composite)	84.000
Area (User Defined)	54.317 acres
Maximum Retention (Pervious)	1.90 in
Maximum Retention (Pervious, 20 percent)	0.38 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	2.95 in
Runoff Volume (Pervious)	582,037.825 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	580,112.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.325 hours
Computational Time Increment	0.043 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	189.23 ft³/s
Unit peak time, Tp	0.217 hours
Unit receding limb, Tr	0.867 hours
Total unit time, Tb	1.084 hours

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 10 years

Label: Offsite DA-1C — Storm Event: 10 year

Scenario: Post-Development 10 year

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 25 years
Label: Offsite DA-1C — Storm Event: 25 year
Scenario: Post-Development 25 year

Storm Event	25 year
Return Event	25 years
Duration	24.000 hours
Depth	5.82 in
Time of Concentration (Composite)	0.325 hours
Area (User Defined)	54.317 acres

Computational Time Increment	0.043 hours
Time to Peak (Computed)	12.229 hours
Flow (Peak, Computed)	169.21 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	166.76 ft³/s

Drainage Area	
SCS CN (Composite)	84.000
Area (User Defined)	54.317 acres
Maximum Retention (Pervious)	1.90 in
Maximum Retention (Pervious, 20 percent)	0.38 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.03 in
Runoff Volume (Pervious)	794,267.323 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	791,783.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.325 hours
Computational Time Increment	0.043 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	189.23 ft³/s
Unit peak time, Tp	0.217 hours
Unit receding limb, Tr	0.867 hours
Total unit time, Tb	1.084 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 100 years
Label: Offsite DA-1C | Storm Event: 100 year
Scenario: Post-Development 100 year

Storm Event	100 year
Return Event	100 years
Duration	24.000 hours
Depth	8.17 in
Time of Concentration (Composite)	0.325 hours
Area (User Defined)	54.317 acres

Computational Time Increment	0.043 hours
Time to Peak (Computed)	12.229 hours
Flow (Peak, Computed)	258.22 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.200 hours
Flow (Peak Interpolated Output)	255.25 ft³/s

Drainage Area

SCS CN (Composite)	84.000
Area (User Defined)	54.317 acres
Maximum Retention (Pervious)	1.90 in
Maximum Retention (Pervious, 20 percent)	0.38 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	6.26 in
Runoff Volume (Pervious)	1,234,004.288 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	1,230,411.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.325 hours
Computational Time Increment	0.043 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	189.23 ft³/s
Unit peak time, Tp	0.217 hours
Unit receding limb, Tr	0.867 hours
Total unit time, Tb	1.084 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 1 years
Label: PDA-1A | Storm Event: 1 year
Scenario: Post-Development 1 year

Storm Event	1 year
Return Event	1 years
Duration	24.000 hours
Depth	2.61 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	3.340 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.122 hours
Flow (Peak, Computed)	1.12 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.05 ft³/s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	3.340 acres
Maximum Retention (Pervious)	4.93 in
Maximum Retention (Pervious, 20 percent)	0.99 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.40 in
Runoff Volume (Pervious)	4,887.180 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	4,878.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	45.41 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 2 years
Label: PDA-1A — Storm Event: 2 year
Scenario: Post-Development 2 year

Storm Event	2 year
Return Event	2 years
Duration	24.000 hours
Depth	3.15 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	3.340 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.122 hours
Flow (Peak, Computed)	2.09 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.02 ft³/s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	3.340 acres
Maximum Retention (Pervious)	4.93 in
Maximum Retention (Pervious, 20 percent)	0.99 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.66 in
Runoff Volume (Pervious)	8,014.464 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,001.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	45.41 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 10 years
Label: PDA-1A — Storm Event: 10 year
Scenario: Post-Development 10 year

Storm Event	10 year
Return Event	10 years
Duration	24.000 hours
Depth	4.65 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	3.340 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.111 hours
Flow (Peak, Computed)	5.40 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	5.33 ft³/s

Drainage Area

SCS CN (Composite)	67.000
Area (User Defined)	3.340 acres
Maximum Retention (Pervious)	4.93 in
Maximum Retention (Pervious, 20 percent)	0.99 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	1.56 in
Runoff Volume (Pervious)	18,957.242 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	18,933.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	45.41 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 25 years
Label: PDA-1A | Storm Event: 25 year
Scenario: Post-Development 25 year

Storm Event	25 year
Return Event	25 years
Duration	24.000 hours
Depth	5.82 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	3.340 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.111 hours
Flow (Peak, Computed)	8.38 ft^3/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	8.31 ft^3/s

Drainage Area

SCS CN (Composite)	67.000
Area (User Defined)	3.340 acres
Maximum Retention (Pervious)	4.93 in
Maximum Retention (Pervious, 20 percent)	0.99 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	2.40 in
Runoff Volume (Pervious)	29,038.192 ft^3

Hydrograph Volume (Area under Hydrograph curve)

Volume	29,005.000 ft^3

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	45.41 ft^3/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 100 years
Label: PDA-1A | Storm Event: 100 year
Scenario: Post-Development 100 year

Storm Event	100 year
Return Event	100 years
Duration	24.000 hours
Depth	8.17 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	3.340 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.111 hours
Flow (Peak, Computed)	14.87 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	14.82 ft³/s

Drainage Area	
SCS CN (Composite)	67.000
Area (User Defined)	3.340 acres
Maximum Retention (Pervious)	4.93 in
Maximum Retention (Pervious, 20 percent)	0.99 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.26 in
Runoff Volume (Pervious)	51,682.413 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	51,631.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	45.41 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary
Label: PDA-1B
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Storm Event	1 year
Return Event	1 years
Duration	24.000 hours
Depth	2.61 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	4.190 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	7.89 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	7.89 ft³/s

Drainage Area	
SCS CN (Composite)	93.000
Area (User Defined)	4.190 acres
Maximum Retention (Pervious)	0.75 in
Maximum Retention (Pervious, 20 percent)	0.15 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.88 in
Runoff Volume (Pervious)	28,642.101 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	28,620.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	56.97 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 2 years
Label: PDA-1B — Storm Event: 2 year
Scenario: Post-Development 2 year

Storm Event	2 year
Return Event	2 years
Duration	24.000 hours
Depth	3.15 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	4.190 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	9.91 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	9.91 ft³/s

Drainage Area	
SCS CN (Composite)	93.000
Area (User Defined)	4.190 acres
Maximum Retention (Pervious)	0.75 in
Maximum Retention (Pervious, 20 percent)	0.15 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.40 in
Runoff Volume (Pervious)	36,469.275 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	36,442.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	56.97 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Storm Event	10 year
Return Event	10 years
Duration	24.000 hours
Depth	4.65 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	4.190 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	15.45 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	15.45 ft³/s

Drainage Area

SCS CN (Composite)	93.000
Area (User Defined)	4.190 acres
Maximum Retention (Pervious)	0.75 in
Maximum Retention (Pervious, 20 percent)	0.15 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	3.85 in
Runoff Volume (Pervious)	58,627.942 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	58,587.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	56.97 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 10 years

Label: PDA-1B — Storm Event: 10 year

Scenario: Post-Development 10 year

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Storm Event	25 year
Return Event	25 years
Duration	24.000 hours
Depth	5.82 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	4.190 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	19.72 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	19.72 ft³/s

Drainage Area	
SCS CN (Composite)	93.000
Area (User Defined)	4.190 acres
Maximum Retention (Pervious)	0.75 in
Maximum Retention (Pervious, 20 percent)	0.15 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.00 in
Runoff Volume (Pervious)	76,124.410 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	76,074.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	56.97 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 25 years
Label: PDA-1B — Storm Event: 25 year
Scenario: Post-Development 25 year

SCS Unit Hydrograph Parameters

Storm Event	100 year
Return Event	100 years
Duration	24.000 hours
Depth	8.17 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	4.190 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	28.22 ft^3/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	28.22 ft^3/s

Drainage Area	
SCS CN (Composite)	93.000
Area (User Defined)	4.190 acres
Maximum Retention (Pervious)	0.75 in
Maximum Retention (Pervious, 20 percent)	0.15 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.33 in
Runoff Volume (Pervious)	111,507.764 ft^3

Hydrograph Volume (Area under Hydrograph curve)	
Volume	111,437.000 ft^3

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	56.97 ft^3/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Storm Event	1 year
Return Event	1 years
Duration	24.000 hours
Depth	2.61 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	1.110 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	1.94 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	1.94 ft³/s

Drainage Area

SCS CN (Composite)	91.000
Area (User Defined)	1.110 acres
Maximum Retention (Pervious)	0.99 in
Maximum Retention (Pervious, 20 percent)	0.20 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	1.71 in
Runoff Volume (Pervious)	6,893.218 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	6,887.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	15.09 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 1 years
Label: PDA-1C — Storm Event: 1 year
Scenario: Post-Development 1 year

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 2 years
Label: PDA-1C — Storm Event: 2 year
Scenario: Post-Development 2 year

Storm Event	2 year
Return Event	2 years
Duration	24.000 hours
Depth	3.15 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	1.110 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	2.47 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	2.47 ft³/s

Drainage Area	
SCS CN (Composite)	91.000
Area (User Defined)	1.110 acres
Maximum Retention (Pervious)	0.99 in
Maximum Retention (Pervious, 20 percent)	0.20 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.21 in
Runoff Volume (Pervious)	8,910.273 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	8,903.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	15.09 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary
Label: PDA-1C
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 10 years
Label: PDA-1C | Storm Event: 10 year
Scenario: Post-Development 10 year

Storm Event	10 year
Return Event	10 years
Duration	24.000 hours
Depth	4.65 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	1.110 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	3.95 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	3.95 ft³/s

Drainage Area	
SCS CN (Composite)	91.000
Area (User Defined)	1.110 acres
Maximum Retention (Pervious)	0.99 in
Maximum Retention (Pervious, 20 percent)	0.20 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.64 in
Runoff Volume (Pervious)	14,678.547 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	14,668.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	15.09 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

SCS Unit Hydrograph Parameters

Storm Event	25 year
Return Event	25 years
Duration	24.000 hours
Depth	5.82 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	1.110 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	5.09 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	5.09 ft³/s

Drainage Area

SCS CN (Composite)	91.000
Area (User Defined)	1.110 acres
Maximum Retention (Pervious)	0.99 in
Maximum Retention (Pervious, 20 percent)	0.20 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	4.78 in
Runoff Volume (Pervious)	19,264.642 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	19,251.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	15.09 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 100 years

Label: PDA-1C — Storm Event: 100 year

Scenario: Post-Development 100 year

Storm Event	100 year
Return Event	100 years
Duration	24.000 hours
Depth	8.17 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	1.110 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	7.37 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	7.37 ft³/s

Drainage Area	
SCS CN (Composite)	91.000
Area (User Defined)	1.110 acres
Maximum Retention (Pervious)	0.99 in
Maximum Retention (Pervious, 20 percent)	0.20 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	7.09 in
Runoff Volume (Pervious)	28,577.166 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	28,558.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	15.09 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 1 years
Label: PDA-1D | Storm Event: 1 year
Scenario: Post-Development 1 year

Storm Event	1 year
Return Event	1 years
Duration	24.000 hours
Depth	2.61 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	5.760 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.111 hours
Flow (Peak, Computed)	8.03 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	8.01 ft³/s

Drainage Area	
SCS CN (Composite)	86.000
Area (User Defined)	5.760 acres
Maximum Retention (Pervious)	1.63 in
Maximum Retention (Pervious, 20 percent)	0.33 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.33 in
Runoff Volume (Pervious)	27,889.804 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	27,862.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	78.32 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 2 years
Label: PDA-1D | Storm Event: 2 year
Scenario: Post-Development 2 year

Storm Event	2 year
Return Event	2 years
Duration	24.000 hours
Depth	3.15 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	5.760 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.111 hours
Flow (Peak, Computed)	10.71 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	10.69 ft³/s

Drainage Area	
SCS CN (Composite)	86.000
Area (User Defined)	5.760 acres
Maximum Retention (Pervious)	1.63 in
Maximum Retention (Pervious, 20 percent)	0.33 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.79 in
Runoff Volume (Pervious)	37,462.793 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	37,428.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	78.32 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 10 years
Label: PDA-1D | Storm Event: 10 year
Scenario: Post-Development 10 year

Storm Event	10 year
Return Event	10 years
Duration	24.000 hours
Depth	4.65 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	5.760 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	18.36 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	18.36 ft³/s

Drainage Area	
SCS CN (Composite)	86.000
Area (User Defined)	5.760 acres
Maximum Retention (Pervious)	1.63 in
Maximum Retention (Pervious, 20 percent)	0.33 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.14 in
Runoff Volume (Pervious)	65,689.784 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	65,635.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	78.32 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary
Label: PDA-1D
Scenario: Post-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Storm Event	25 year
Return Event	25 years
Duration	24.000 hours
Depth	5.82 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	5.760 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	24.37 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	24.37 ft³/s

Drainage Area	
SCS CN (Composite)	86.000
Area (User Defined)	5.760 acres
Maximum Retention (Pervious)	1.63 in
Maximum Retention (Pervious, 20 percent)	0.33 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.24 in
Runoff Volume (Pervious)	88,623.877 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	88,555.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	78.32 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 25 years
Label: PDA-1D | Storm Event: 25 year
Scenario: Post-Development 25 year

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 100 years
Label: PDA-1D — Storm Event: 100 year
Scenario: Post-Development 100 year

Storm Event	100 year
Return Event	100 years
Duration	24.000 hours
Depth	8.17 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	5.760 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	36.37 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	36.37 ft³/s

Drainage Area	
SCS CN (Composite)	86.000
Area (User Defined)	5.760 acres
Maximum Retention (Pervious)	1.63 in
Maximum Retention (Pervious, 20 percent)	0.33 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.50 in
Runoff Volume (Pervious)	135,829.482 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	135,732.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	78.32 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 1 years
Label: PDA-1E — Storm Event: 1 year
Scenario: Post-Development 1 year

Storm Event	1 year
Return Event	1 years
Duration	24.000 hours
Depth	2.61 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	8.510 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.111 hours
Flow (Peak, Computed)	10.72 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	10.67 ft³/s

Drainage Area

SCS CN (Composite)	84.000
Area (User Defined)	8.510 acres
Maximum Retention (Pervious)	1.90 in
Maximum Retention (Pervious, 20 percent)	0.38 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	1.20 in
Runoff Volume (Pervious)	37,129.953 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	37,090.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	115.71 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary
Return Event: 1 years
Label: PDA-1E
Storm Event: 1 year
Scenario: Post-Development 1 year

SCS Unit Hydrograph Parameters

Storm Event	2 year
Return Event	2 years
Duration	24.000 hours
Depth	3.15 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	8.510 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.111 hours
Flow (Peak, Computed)	14.58 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	14.54 ft³/s

Drainage Area	
SCS CN (Composite)	84.000
Area (User Defined)	8.510 acres
Maximum Retention (Pervious)	1.90 in
Maximum Retention (Pervious, 20 percent)	0.38 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.64 in
Runoff Volume (Pervious)	50,678.742 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	50,628.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	115.71 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

SCS Unit Hydrograph Parameters

Storm Event	10 year
Return Event	10 years
Duration	24.000 hours
Depth	4.65 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	8.510 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	25.74 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	25.74 ft³/s

Drainage Area

SCS CN (Composite)	84.000
Area (User Defined)	8.510 acres
Maximum Retention (Pervious)	1.90 in
Maximum Retention (Pervious, 20 percent)	0.38 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	2.95 in
Runoff Volume (Pervious)	91,189.525 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	91,110.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	115.71 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 25 years
Label: PDA-1E | Storm Event: 25 year
Scenario: Post-Development 25 year

Storm Event	25 year
Return Event	25 years
Duration	24.000 hours
Depth	5.82 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	8.510 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	34.61 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	34.61 ft³/s

Drainage Area	
SCS CN (Composite)	84.000
Area (User Defined)	8.510 acres
Maximum Retention (Pervious)	1.90 in
Maximum Retention (Pervious, 20 percent)	0.38 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.03 in
Runoff Volume (Pervious)	124,440.149 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	124,339.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	115.71 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Storm Event	100 year
Return Event	100 years
Duration	24.000 hours
Depth	8.17 in
Time of Concentration (Composite)	0.083 hours
Area (User Defined)	8.510 acres

Computational Time Increment	0.011 hours
Time to Peak (Computed)	12.100 hours
Flow (Peak, Computed)	52.42 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.100 hours
Flow (Peak Interpolated Output)	52.42 ft³/s

Drainage Area	
SCS CN (Composite)	84.000
Area (User Defined)	8.510 acres
Maximum Retention (Pervious)	1.90 in
Maximum Retention (Pervious, 20 percent)	0.38 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	6.26 in
Runoff Volume (Pervious)	193,334.985 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	193,191.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.083 hours
Computational Time Increment	0.011 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	115.71 ft³/s
Unit peak time, Tp	0.056 hours
Unit receding limb, Tr	0.222 hours
Total unit time, Tb	0.278 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Storm Event	1 year
Return Event	1 years
Duration	24.000 hours
Depth	2.61 in
Time of Concentration (Composite)	0.320 hours
Area (User Defined)	20.900 acres

Computational Time Increment	0.043 hours
Time to Peak (Computed)	12.248 hours
Flow (Peak, Computed)	9.80 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	9.80 ft³/s

Drainage Area	
SCS CN (Composite)	74.000
Area (User Defined)	20.900 acres
Maximum Retention (Pervious)	3.51 in
Maximum Retention (Pervious, 20 percent)	0.70 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	0.67 in
Runoff Volume (Pervious)	50,912.627 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	50,665.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.320 hours
Computational Time Increment	0.043 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	73.98 ft³/s
Unit peak time, Tp	0.213 hours
Unit receding limb, Tr	0.854 hours
Total unit time, Tb	1.067 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary — Return Event: 2 years
Label: PDA-1F — Storm Event: 2 year
Scenario: Post-Development 2 year

Storm Event	2 year
Return Event	2 years
Duration	24.000 hours
Depth	3.15 in
Time of Concentration (Composite)	0.320 hours
Area (User Defined)	20.900 acres

Computational Time Increment	0.043 hours
Time to Peak (Computed)	12.248 hours
Flow (Peak, Computed)	15.54 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	15.53 ft³/s

Drainage Area	
SCS CN (Composite)	74.000
Area (User Defined)	20.900 acres
Maximum Retention (Pervious)	3.51 in
Maximum Retention (Pervious, 20 percent)	0.70 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	1.00 in
Runoff Volume (Pervious)	76,229.152 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	75,893.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.320 hours
Computational Time Increment	0.043 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	73.98 ft³/s
Unit peak time, Tp	0.213 hours
Unit receding limb, Tr	0.854 hours
Total unit time, Tb	1.067 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary | Return Event: 10 years
Label: PDA-1F | Storm Event: 10 year
Scenario: Post-Development 10 year

Storm Event	10 year
Return Event	10 years
Duration	24.000 hours
Depth	4.65 in
Time of Concentration (Composite)	0.320 hours
Area (User Defined)	20.900 acres

Computational Time Increment	0.043 hours
Time to Peak (Computed)	12.248 hours
Flow (Peak, Computed)	33.87 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	33.82 ft³/s

Drainage Area	
SCS CN (Composite)	74.000
Area (User Defined)	20.900 acres
Maximum Retention (Pervious)	3.51 in
Maximum Retention (Pervious, 20 percent)	0.70 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.09 in
Runoff Volume (Pervious)	158,440.645 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	157,848.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.320 hours
Computational Time Increment	0.043 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	73.98 ft³/s
Unit peak time, Tp	0.213 hours
Unit receding limb, Tr	0.854 hours
Total unit time, Tb	1.067 hours

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary
Label: PDA-1F
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Storm Event	25 year
Return Event	25 years
Duration	24.000 hours
Depth	5.82 in
Time of Concentration (Composite)	0.320 hours
Area (User Defined)	20.900 acres

Computational Time Increment	0.043 hours
Time to Peak (Computed)	12.248 hours
Flow (Peak, Computed)	49.54 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	49.46 ft³/s

Drainage Area

SCS CN (Composite)	74.000
Area (User Defined)	20.900 acres
Maximum Retention (Pervious)	3.51 in
Maximum Retention (Pervious, 20 percent)	0.70 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	3.03 in
Runoff Volume (Pervious)	230,187.986 ft³

Hydrograph Volume (Area under Hydrograph curve)

Volume	229,393.000 ft³

SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	0.320 hours
Computational Time Increment	0.043 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	73.98 ft³/s
Unit peak time, Tp	0.213 hours
Unit receding limb, Tr	0.854 hours
Total unit time, Tb	1.067 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Unit Hydrograph Summary
Label: PDA-1F
Scenario: Post-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Storm Event	100 year
Return Event	100 years
Duration	24.000 hours
Depth	8.17 in
Time of Concentration (Composite)	0.320 hours
Area (User Defined)	20.900 acres

Computational Time Increment	0.043 hours
Time to Peak (Computed)	12.206 hours
Flow (Peak, Computed)	82.68 ft³/s
Output Increment	0.050 hours
Time to Flow (Peak Interpolated Output)	12.250 hours
Flow (Peak Interpolated Output)	82.39 ft³/s

Drainage Area	
SCS CN (Composite)	74.000
Area (User Defined)	20.900 acres
Maximum Retention (Pervious)	3.51 in
Maximum Retention (Pervious, 20 percent)	0.70 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.08 in
Runoff Volume (Pervious)	385,252.447 ft³

Hydrograph Volume (Area under Hydrograph curve)	
Volume	384,050.000 ft³

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.320 hours
Computational Time Increment	0.043 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670
Unit peak, qp	73.98 ft³/s
Unit peak time, Tp	0.213 hours
Unit receding limb, Tr	0.854 hours
Total unit time, Tb	1.067 hours

SCS Unit Hydrograph Parameters

Proposed Hydrologic Calculations Report

Subsection: Channel Routing Summary — Return Event: 1 years
Label: DA-1A — Storm Event: 1 year
Scenario: Post-Development 1 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.250	12.300
Peak Flow (ft³/s)...	7.75	7.75

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	40,968.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	40,968.000 ft³

Subsection: Channel Routing Summary — Return Event: 2 years
Label: DA-1A — Storm Event: 2 year
Scenario: Post-Development 2 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.250	12.300
Peak Flow (ft³/s)...	12.79	12.79

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	62,784.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	62,784.000 ft³

Proposed Hydrologic Calculations Report

Subsection: Channel Routing Summary	Return Event: 10 years
Label: DA-1A	Storm Event: 10 year
Scenario: Post-Development 10 year	

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.250	12.300
Peak Flow (ft³/s)...	29.18	29.18

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	135,054.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	135,054.000 ft³

Subsection: Channel Routing Summary	Return Event: 25 years
Label: DA-1A	Storm Event: 25 year
Scenario: Post-Development 25 year	

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.200	12.250
Peak Flow (ft³/s)...	43.61	43.61

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	199,059.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	199,059.000 ft³

Proposed Hydrologic Calculations Report

Subsection: Channel Routing Summary — Return Event: 100 years
Label: DA-1A — Storm Event: 100 year
Scenario: Post-Development 100 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.200	12.250
Peak Flow (ft^3/s)...	74.74	74.74

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	338,842.000 ft^3
Volume (Routing, Unrouted)	0.000 ft^3
Volume (Routing, Base Flow)	0.000 ft^3
Volume (Routing, Infiltration)	0.000 ft^3
Volume (Routing, Outflow)	338,842.000 ft^3

Subsection: Channel Routing Summary — Return Event: 1 years
Label: DA-1B — Storm Event: 1 year
Scenario: Post-Development 1 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.450	12.500
Peak Flow (ft^3/s)...	60.74	60.74

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	367,980.000 ft^3
Volume (Routing, Unrouted)	0.000 ft^3
Volume (Routing, Base Flow)	0.000 ft^3
Volume (Routing, Infiltration)	0.000 ft^3
Volume (Routing, Outflow)	367,980.000 ft^3

Proposed Hydrologic Calculations Report

Subsection: Channel Routing Summary	Return Event: 2 years
Label: DA-1B	Storm Event: 2 year
Scenario: Post-Development 2 year	

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.450	12.500
Peak Flow (ft³/s)...	85.17	85.17

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	510,913.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	510,913.000 ft³

Subsection: Channel Routing Summary	Return Event: 10 years
Label: DA-1B	Storm Event: 10 year
Scenario: Post-Development 10 year	

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.400	12.450
Peak Flow (ft³/s)...	158.77	158.77

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	944,849.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	944,849.000 ft³

Proposed Hydrologic Calculations Report

Subsection: Channel Routing Summary — Return Event: 25 years
Label: DA-1B — Storm Event: 25 year
Scenario: Post-Development 25 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.400	12.450
Peak Flow (ft³/s)...	218.35	218.35

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	1,305,044.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	1,305,044.000 ft³

Subsection: Channel Routing Summary — Return Event: 100 years
Label: DA-1B — Storm Event: 100 year
Scenario: Post-Development 100 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.400	12.450
Peak Flow (ft³/s)...	339.37	339.37

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	2,056,966.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	2,056,966.000 ft³

Proposed Hydrologic Calculations Report

Subsection: Channel Routing Summary	Return Event: 1 years
Label: PDA-1C Link	Storm Event: 1 year
Scenario: Post-Development 1 year	

Infiltration

Infiltration Method	No Infiltration

Translation Routing Summary

Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.250	12.300
Peak Flow (ft³/s)...	50.25	50.25

Inflow/Outflow Volumes

Volume (Routing, Inflow)	236,049.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	236,049.000 ft³

Subsection: Channel Routing Summary	Return Event: 2 years
Label: PDA-1C Link	Storm Event: 2 year
Scenario: Post-Development 2 year	

Infiltration

Infiltration Method	No Infiltration

Translation Routing Summary

Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.250	12.300
Peak Flow (ft³/s)...	68.95	68.95

Inflow/Outflow Volumes

Volume (Routing, Inflow)	322,266.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	322,266.000 ft³

Proposed Hydrologic Calculations Report

Subsection: Channel Routing Summary — Return Event: 10 years
Label: PDA-1C Link — Storm Event: 10 year
Scenario: Post-Development 10 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.250	12.300
Peak Flow (ft³/s)...	123.37	123.37

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	580,112.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	580,112.000 ft³

Subsection: Channel Routing Summary — Return Event: 25 years
Label: PDA-1C Link — Storm Event: 25 year
Scenario: Post-Development 25 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.200	12.250
Peak Flow (ft³/s)...	166.76	166.76

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	791,783.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	791,783.000 ft³

Proposed Hydrologic Calculations Report

Subsection: Channel Routing Summary — Return Event: 100 years
Label: PDA-1C Link — Storm Event: 100 year
Scenario: Post-Development 100 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.200	12.250
Peak Flow (ft³/s)...	255.25	255.25

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	1,230,411.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	1,230,411.000 ft³

Subsection: Channel Routing Summary — Return Event: 1 years
Label: Pond Out — Storm Event: 1 year
Scenario: Post-Development 1 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.350	12.400
Peak Flow (ft³/s)...	111.96	111.96

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	654,213.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	654,213.000 ft³

Proposed Hydrologic Calculations Report

Subsection: Channel Routing Summary | Return Event: 2 years
Label: Pond Out | Storm Event: 2 year
Scenario: Post-Development 2 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.350	12.400
Peak Flow (ft³/s)...	159.61	159.61

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	920,227.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	920,227.000 ft³

Subsection: Channel Routing Summary | Return Event: 10 years
Label: Pond Out | Storm Event: 10 year
Scenario: Post-Development 10 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft³/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.350	12.400
Peak Flow (ft³/s)...	310.87	310.87

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	1,742,233.000 ft³
Volume (Routing, Unrouted)	0.000 ft³
Volume (Routing, Base Flow)	0.000 ft³
Volume (Routing, Infiltration)	0.000 ft³
Volume (Routing, Outflow)	1,742,233.000 ft³

Proposed Hydrologic Calculations Report

Subsection: Channel Routing Summary — Return Event: 25 years
Label: Pond Out — Storm Event: 25 year
Scenario: Post-Development 25 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft^3/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.350	12.400
Peak Flow (ft^3/s)...	432.40	432.40

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	2,428,705.000 ft^3
Volume (Routing, Unrouted)	0.000 ft^3
Volume (Routing, Base Flow)	0.000 ft^3
Volume (Routing, Infiltration)	0.000 ft^3
Volume (Routing, Outflow)	2,428,705.000 ft^3

Subsection: Channel Routing Summary — Return Event: 100 years
Label: Pond Out — Storm Event: 100 year
Scenario: Post-Development 100 year

Infiltration	
Infiltration Method	No Infiltration

Translation Routing Summary	
Flow (Base)	0.00 ft^3/s
Translate	0.050 hours

	Inflow Hydrograph	Outflow Hydrograph
Time Start (hours)...	0.000	0.050
Time Step (hours)...	0.050	0.050
Time End (hours)...	24.000	24.050
Peak Time (hours)...	12.350	12.400
Peak Flow (ft^3/s)...	675.32	675.32

Inflow/Outflow Volumes	
Volume (Routing, Inflow)	3,869,661.000 ft^3
Volume (Routing, Unrouted)	0.000 ft^3
Volume (Routing, Base Flow)	0.000 ft^3
Volume (Routing, Infiltration)	0.000 ft^3
Volume (Routing, Outflow)	3,869,661.000 ft^3

Proposed Hydrologic Calculations Report

Subsection: Addition Summary
Label: DP-1
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Summary for Hydrograph Addition at 'DP-1'

Upstream Link	Upstream Node
1C	IB-1C
DA-1A	Junction 1A
Pond Out	Junction 1D
1B	OCS-1B
<Catchment to Outflow Node>	PDA-1A

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	1C	0.000	0.000	0.00
Flow (From)	DA-1A	40,968.471	12.300	7.75
Flow (From)	Pond Out	654,212.870	12.400	111.96
Flow (From)	1B	3,241.926	12.800	0.95
Flow (From)	PDA-1A	4,878.070	12.100	1.05
Flow (In)	DP-1	702,723.576	12.400	119.79

Subsection: Addition Summary
Label: DP-1
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Summary for Hydrograph Addition at 'DP-1'

Upstream Link	Upstream Node
1C	IB-1C
DA-1A	Junction 1A
Pond Out	Junction 1D
1B	OCS-1B
<Catchment to Outflow Node>	PDA-1A

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	1C	57.077	12.200	0.11
Flow (From)	DA-1A	62,784.416	12.300	12.79
Flow (From)	Pond Out	920,226.898	12.400	159.61
Flow (From)	1B	8,750.548	12.400	4.46
Flow (From)	PDA-1A	8,001.423	12.100	2.02
Flow (In)	DP-1	999,069.213	12.400	176.55

Subsection: Addition Summary
Label: DP-1
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Summary for Hydrograph Addition at 'DP-1'

Upstream Link	Upstream Node
1C	IB-1C

Proposed Hydrologic Calculations Report

Subsection: Addition Summary — Return Event: 10 years
Label: DP-1 — Storm Event: 10 year
Scenario: Post-Development 10 year

Summary for Hydrograph Addition at 'DP-1'

Upstream Link	Upstream Node
DA-1A	Junction 1A
Pond Out	Junction 1D
1B	OCS-1B
<Catchment to Outflow Node>	PDA-1A

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	1C	1,686.668	12.150	1.79
Flow (From)	DA-1A	135,054.065	12.300	29.18
Flow (From)	Pond Out	1,742,232.798	12.400	310.87
Flow (From)	1B	25,537.737	12.200	14.45
Flow (From)	PDA-1A	18,932.846	12.100	5.33
Flow (In)	DP-1	1,922,206.952	12.350	343.32

Subsection: Addition Summary — Return Event: 25 years
Label: DP-1 — Storm Event: 25 year
Scenario: Post-Development 25 year

Summary for Hydrograph Addition at 'DP-1'

Upstream Link	Upstream Node
1C	IB-1C
DA-1A	Junction 1A
Pond Out	Junction 1D
1B	OCS-1B
<Catchment to Outflow Node>	PDA-1A

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	1C	3,325.285	12.150	2.89
Flow (From)	DA-1A	199,059.083	12.250	43.61
Flow (From)	Pond Out	2,428,704.853	12.400	432.40
Flow (From)	1B	37,647.254	12.100	15.39
Flow (From)	PDA-1A	29,004.742	12.100	8.31
Flow (In)	DP-1	2,696,125.891	12.350	483.41

Subsection: Addition Summary — Return Event: 100 years
Label: DP-1 — Storm Event: 100 year
Scenario: Post-Development 100 year

Summary for Hydrograph Addition at 'DP-1'

Upstream Link	Upstream Node
1C	IB-1C
DA-1A	Junction 1A

Proposed Hydrologic Calculations Report

Subsection: Addition Summary | Return Event: 100 years
Label: DP-1 | Storm Event: 100 year
Scenario: Post-Development 100 year

Summary for Hydrograph Addition at 'DP-1'

Upstream Link	Upstream Node
Pond Out	Junction 1D
1B	OCS-1B
<Catchment to Outflow Node>	PDA-1A

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	1C	7,022.077	12.150	4.93
Flow (From)	DA-1A	338,841.633	12.250	74.74
Flow (From)	Pond Out	3,869,660.525	12.400	675.32
Flow (From)	1B	61,486.323	12.100	16.70
Flow (From)	PDA-1A	51,630.866	12.100	14.82
Flow (In)	DP-1	4,326,273.020	12.350	765.25

Subsection: Addition Summary | Return Event: 1 years
Label: Junction 1A | Storm Event: 1 year
Scenario: Post-Development 1 year

Summary for Hydrograph Addition at 'Junction 1A'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1A

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Offsite DA-1A	40,968.471	12.250	7.75
Flow (In)	Junction 1A	40,968.471	12.250	7.75

Subsection: Addition Summary | Return Event: 2 years
Label: Junction 1A | Storm Event: 2 year
Scenario: Post-Development 2 year

Summary for Hydrograph Addition at 'Junction 1A'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1A

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Offsite DA-1A	62,784.416	12.250	12.79
Flow (In)	Junction 1A	62,784.416	12.250	12.79

Proposed Hydrologic Calculations Report

Subsection: Addition Summary
Label: Junction 1A
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Summary for Hydrograph Addition at 'Junction 1A'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1A

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Offsite DA-1A	135,054.065	12.250	29.18
Flow (In)	Junction 1A	135,054.065	12.250	29.18

Subsection: Addition Summary
Label: Junction 1A
Scenario: Post-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Summary for Hydrograph Addition at 'Junction 1A'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1A

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Offsite DA-1A	199,059.083	12.200	43.61
Flow (In)	Junction 1A	199,059.083	12.200	43.61

Subsection: Addition Summary
Label: Junction 1A
Scenario: Post-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Summary for Hydrograph Addition at 'Junction 1A'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1A

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Offsite DA-1A	338,841.633	12.200	74.74
Flow (In)	Junction 1A	338,841.633	12.200	74.74

Subsection: Addition Summary
Label: Junction 1B
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Summary for Hydrograph Addition at 'Junction 1B'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1B

Proposed Hydrologic Calculations Report

Subsection: Addition Summary | Return Event: 1 years
Label: Junction 1B | Storm Event: 1 year
Scenario: Post-Development 1 year

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Offsite DA-1B	367,979.567	12.450	60.74
Flow (In)	Junction 1B	367,979.567	12.450	60.74

Subsection: Addition Summary | Return Event: 2 years
Label: Junction 1B | Storm Event: 2 year
Scenario: Post-Development 2 year

Summary for Hydrograph Addition at 'Junction 1B'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1B

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Offsite DA-1B	510,912.936	12.450	85.17
Flow (In)	Junction 1B	510,912.936	12.450	85.17

Subsection: Addition Summary | Return Event: 10 years
Label: Junction 1B | Storm Event: 10 year
Scenario: Post-Development 10 year

Summary for Hydrograph Addition at 'Junction 1B'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1B

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Offsite DA-1B	944,849.005	12.400	158.77
Flow (In)	Junction 1B	944,849.005	12.400	158.77

Subsection: Addition Summary | Return Event: 25 years
Label: Junction 1B | Storm Event: 25 year
Scenario: Post-Development 25 year

Summary for Hydrograph Addition at 'Junction 1B'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1B

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Offsite DA-1B	1,305,043.559	12.400	218.35

Proposed Hydrologic Calculations Report

Subsection: Addition Summary | Return Event: 25 years
Label: Junction 1B | Storm Event: 25 year
Scenario: Post-Development 25 year

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (In)	Junction 1B	1,305,043.559	12.400	218.35

Subsection: Addition Summary | Return Event: 100 years
Label: Junction 1B | Storm Event: 100 year
Scenario: Post-Development 100 year

Summary for Hydrograph Addition at 'Junction 1B'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1B

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Offsite DA-1B	2,056,965.625	12.400	339.37
Flow (In)	Junction 1B	2,056,965.625	12.400	339.37

Subsection: Addition Summary | Return Event: 1 years
Label: Junction 1C | Storm Event: 1 year
Scenario: Post-Development 1 year

Summary for Hydrograph Addition at 'Junction 1C'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1C

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Offsite DA-1C	236,048.853	12.250	50.25
Flow (In)	Junction 1C	236,048.853	12.250	50.25

Subsection: Addition Summary | Return Event: 2 years
Label: Junction 1C | Storm Event: 2 year
Scenario: Post-Development 2 year

Summary for Hydrograph Addition at 'Junction 1C'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1C

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Offsite DA-1C	322,265.720	12.250	68.95
Flow (In)	Junction 1C	322,265.720	12.250	68.95

Proposed Hydrologic Calculations Report

Subsection: Addition Summary — Return Event: 10 years
Label: Junction 1C — Storm Event: 10 year
Scenario: Post-Development 10 year

Summary for Hydrograph Addition at 'Junction 1C'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1C

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Offsite DA-1C	580,111.627	12.250	123.37
Flow (In)	Junction 1C	580,111.627	12.250	123.37

Subsection: Addition Summary — Return Event: 25 years
Label: Junction 1C — Storm Event: 25 year
Scenario: Post-Development 25 year

Summary for Hydrograph Addition at 'Junction 1C'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1C

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Offsite DA-1C	791,782.996	12.200	166.76
Flow (In)	Junction 1C	791,782.996	12.200	166.76

Subsection: Addition Summary — Return Event: 100 years
Label: Junction 1C — Storm Event: 100 year
Scenario: Post-Development 100 year

Summary for Hydrograph Addition at 'Junction 1C'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Offsite DA-1C

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	Offsite DA-1C	1,230,411.493	12.200	255.25
Flow (In)	Junction 1C	1,230,411.493	12.200	255.25

Subsection: Addition Summary — Return Event: 1 years
Label: Junction 1D — Storm Event: 1 year
Scenario: Post-Development 1 year

Summary for Hydrograph Addition at 'Junction 1D'

Upstream Link	Upstream Node
1D	IB-1D
DA-1B	Junction 1B

Proposed Hydrologic Calculations Report

Subsection: Addition Summary
Label: Junction 1D
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Summary for Hydrograph Addition at 'Junction 1D'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-1F
PDA-1C Link	Junction 1C
1E	IB-1E

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	1D	0.000	0.000	0.00
Flow (From)	DA-1B	367,979.567	12.500	60.74
Flow (From)	PDA-1F	50,665.097	12.250	9.80
Flow (From)	PDA-1C Link	236,048.853	12.300	50.25
Flow (From)	1E	0.000	0.000	0.00
Flow (In)	Junction 1D	654,212.870	12.350	111.96

Subsection: Addition Summary
Label: Junction 1D
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Summary for Hydrograph Addition at 'Junction 1D'

Upstream Link	Upstream Node
1D	IB-1D
DA-1B	Junction 1B
<Catchment to Outflow Node>	PDA-1F
PDA-1C Link	Junction 1C
1E	IB-1E

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	1D	4,230.361	12.550	1.23
Flow (From)	DA-1B	510,912.936	12.500	85.17
Flow (From)	PDA-1F	75,892.860	12.250	15.53
Flow (From)	PDA-1C Link	322,265.720	12.300	68.95
Flow (From)	1E	7,543.607	12.550	1.80
Flow (In)	Junction 1D	920,226.898	12.350	159.61

Subsection: Addition Summary
Label: Junction 1D
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Summary for Hydrograph Addition at 'Junction 1D'

Upstream Link	Upstream Node
1D	IB-1D
DA-1B	Junction 1B
<Catchment to Outflow Node>	PDA-1F

Proposed Hydrologic Calculations Report

Subsection: Addition Summary | Return Event: 10 years
Label: Junction 1D | Storm Event: 10 year
Scenario: Post-Development 10 year

Summary for Hydrograph Addition at 'Junction 1D'

Upstream Link	Upstream Node
PDA-1C Link	Junction 1C
1E	IB-1E

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	1D	22,895.448	12.350	6.40
Flow (From)	DA-1B	944,849.005	12.450	158.77
Flow (From)	PDA-1F	157,848.179	12.250	33.82
Flow (From)	PDA-1C Link	580,111.627	12.300	123.37
Flow (From)	1E	37,530.454	12.300	10.06
Flow (In)	Junction 1D	1,742,232.798	12.350	310.87

Subsection: Addition Summary | Return Event: 25 years
Label: Junction 1D | Storm Event: 25 year
Scenario: Post-Development 25 year

Summary for Hydrograph Addition at 'Junction 1D'

Upstream Link	Upstream Node
1D	IB-1D
DA-1B	Junction 1B
<Catchment to Outflow Node>	PDA-1F
PDA-1C Link	Junction 1C
1E	IB-1E

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	1D	39,630.188	12.250	10.95
Flow (From)	DA-1B	1,305,043.559	12.450	218.35
Flow (From)	PDA-1F	229,392.625	12.250	49.46
Flow (From)	PDA-1C Link	791,782.996	12.250	166.76
Flow (From)	1E	64,154.064	12.250	17.45
Flow (In)	Junction 1D	2,428,704.853	12.350	432.40

Subsection: Addition Summary | Return Event: 100 years
Label: Junction 1D | Storm Event: 100 year
Scenario: Post-Development 100 year

Summary for Hydrograph Addition at 'Junction 1D'

Upstream Link	Upstream Node
1D	IB-1D
DA-1B	Junction 1B
<Catchment to Outflow Node>	PDA-1F
PDA-1C Link	Junction 1C

Subsection: Addition Summary | Return Event: 100 years
Label: Junction 1D | Storm Event: 100 year
Scenario: Post-Development 100 year

Summary for Hydrograph Addition at 'Junction 1D'

Upstream Link	Upstream Node
1E	IB-1E

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (From)	1D	77,026.740	12.250	17.89
Flow (From)	DA-1B	2,056,965.625	12.450	339.37
Flow (From)	PDA-1F	384,050.150	12.250	82.39
Flow (From)	PDA-1C Link	1,230,411.493	12.250	255.25
Flow (From)	1E	123,094.586	12.200	29.23
Flow (In)	Junction 1D	3,869,660.525	12.350	675.32

Subsection: Time vs. Elevation | Return Event: 1 years
Label: IB-1C (IN) | Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	212.00	212.00	212.00	212.00	212.00
0.250	212.00	212.00	212.00	212.00	212.00
0.500	212.00	212.00	212.00	212.00	212.00
0.750	212.00	212.00	212.00	212.00	212.00
1.000	212.00	212.00	212.00	212.00	212.00
1.250	212.00	212.00	212.00	212.00	212.00
1.500	212.00	212.00	212.00	212.00	212.00
1.750	212.00	212.00	212.00	212.00	212.00
2.000	212.00	212.00	212.00	212.00	212.00
2.250	212.00	212.00	212.00	212.00	212.00
2.500	212.00	212.00	212.00	212.00	212.00
2.750	212.00	212.00	212.00	212.00	212.00
3.000	212.00	212.00	212.00	212.00	212.00
3.250	212.00	212.00	212.00	212.00	212.00
3.500	212.00	212.00	212.00	212.00	212.00
3.750	212.00	212.00	212.00	212.00	212.00
4.000	212.00	212.00	212.00	212.00	212.00
4.250	212.00	212.00	212.00	212.00	212.00
4.500	212.00	212.00	212.00	212.00	212.00
4.750	212.00	212.00	212.00	212.00	212.00
5.000	212.00	212.00	212.00	212.00	212.00
5.250	212.00	212.00	212.00	212.00	212.00
5.500	212.00	212.00	212.00	212.00	212.00
5.750	212.00	212.00	212.00	212.00	212.00
6.000	212.00	212.00	212.00	212.00	212.00

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation Return Event: 1 years
Label: IB-1C (IN) Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
6.250	212.00	212.00	212.00	212.00	212.00
6.500	212.00	212.00	212.00	212.00	212.00
6.750	212.00	212.00	212.00	212.00	212.00
7.000	212.00	212.00	212.00	212.00	212.00
7.250	212.00	212.00	212.00	212.00	212.00
7.500	212.00	212.00	212.00	212.00	212.00
7.750	212.00	212.00	212.00	212.00	212.00
8.000	212.00	212.00	212.00	212.00	212.00
8.250	212.00	212.00	212.00	212.00	212.00
8.500	212.01	212.01	212.01	212.01	212.01
8.750	212.01	212.01	212.01	212.01	212.01
9.000	212.01	212.01	212.01	212.01	212.01
9.250	212.01	212.01	212.01	212.01	212.01
9.500	212.01	212.01	212.01	212.01	212.01
9.750	212.01	212.01	212.01	212.01	212.02
10.000	212.02	212.02	212.02	212.02	212.02
10.250	212.02	212.02	212.02	212.02	212.02
10.500	212.02	212.02	212.02	212.02	212.02
10.750	212.03	212.03	212.03	212.03	212.03
11.000	212.03	212.03	212.03	212.03	212.03
11.250	212.04	212.04	212.04	212.04	212.05
11.500	212.05	212.05	212.06	212.06	212.07
11.750	212.09	212.10	212.12	212.14	212.17
12.000	212.22	212.28	212.33	212.37	212.38
12.250	212.38	212.36	212.35	212.33	212.30
12.500	212.28	212.26	212.23	212.21	212.19
12.750	212.17	212.16	212.14	212.13	212.12
13.000	212.11	212.10	212.10	212.09	212.09
13.250	212.08	212.08	212.07	212.07	212.07
13.500	212.06	212.06	212.06	212.06	212.06
13.750	212.06	212.05	212.05	212.05	212.05
14.000	212.05	212.05	212.05	212.05	212.04
14.250	212.04	212.04	212.04	212.04	212.04
14.500	212.04	212.04	212.04	212.04	212.04
14.750	212.04	212.04	212.04	212.04	212.04
15.000	212.03	212.03	212.03	212.03	212.03
15.250	212.03	212.03	212.03	212.03	212.03
15.500	212.03	212.03	212.03	212.03	212.03
15.750	212.03	212.03	212.03	212.03	212.03
16.000	212.03	212.02	212.02	212.02	212.02
16.250	212.02	212.02	212.02	212.02	212.02
16.500	212.02	212.02	212.02	212.02	212.02
16.750	212.02	212.02	212.02	212.02	212.02
17.000	212.02	212.02	212.02	212.02	212.02
17.250	212.02	212.02	212.02	212.02	212.02

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation	Return Event: 1 years
Label: IB-1C (IN)	Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
17.500	212.02	212.02	212.02	212.02	212.02
17.750	212.02	212.02	212.02	212.02	212.02
18.000	212.01	212.01	212.01	212.01	212.01
18.250	212.01	212.01	212.01	212.01	212.01
18.500	212.01	212.01	212.01	212.01	212.01
18.750	212.01	212.01	212.01	212.01	212.01
19.000	212.01	212.01	212.01	212.01	212.01
19.250	212.01	212.01	212.01	212.01	212.01
19.500	212.01	212.01	212.01	212.01	212.01
19.750	212.01	212.01	212.01	212.01	212.01
20.000	212.01	212.01	212.01	212.01	212.01
20.250	212.01	212.01	212.01	212.01	212.01
20.500	212.01	212.01	212.01	212.01	212.01
20.750	212.01	212.01	212.01	212.01	212.01
21.000	212.01	212.01	212.01	212.01	212.01
21.250	212.01	212.01	212.01	212.01	212.01
21.500	212.01	212.01	212.01	212.01	212.01
21.750	212.01	212.01	212.01	212.01	212.01
22.000	212.01	212.01	212.01	212.01	212.01
22.250	212.01	212.01	212.01	212.01	212.01
22.500	212.01	212.01	212.01	212.01	212.01
22.750	212.01	212.01	212.01	212.01	212.01
23.000	212.01	212.01	212.01	212.01	212.01
23.250	212.01	212.01	212.01	212.01	212.01
23.500	212.01	212.01	212.01	212.01	212.01
23.750	212.01	212.01	212.01	212.01	212.01
24.000	212.01	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation	Return Event: 2 years
Label: IB-1C (IN)	Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	212.00	212.00	212.00	212.00	212.00
0.250	212.00	212.00	212.00	212.00	212.00
0.500	212.00	212.00	212.00	212.00	212.00
0.750	212.00	212.00	212.00	212.00	212.00
1.000	212.00	212.00	212.00	212.00	212.00
1.250	212.00	212.00	212.00	212.00	212.00
1.500	212.00	212.00	212.00	212.00	212.00

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 2 years
Label: IB-1C (IN) | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
1.750	212.00	212.00	212.00	212.00	212.00
2.000	212.00	212.00	212.00	212.00	212.00
2.250	212.00	212.00	212.00	212.00	212.00
2.500	212.00	212.00	212.00	212.00	212.00
2.750	212.00	212.00	212.00	212.00	212.00
3.000	212.00	212.00	212.00	212.00	212.00
3.250	212.00	212.00	212.00	212.00	212.00
3.500	212.00	212.00	212.00	212.00	212.00
3.750	212.00	212.00	212.00	212.00	212.00
4.000	212.00	212.00	212.00	212.00	212.00
4.250	212.00	212.00	212.00	212.00	212.00
4.500	212.00	212.00	212.00	212.00	212.00
4.750	212.00	212.00	212.00	212.00	212.00
5.000	212.00	212.00	212.00	212.00	212.00
5.250	212.00	212.00	212.00	212.00	212.00
5.500	212.00	212.00	212.00	212.00	212.00
5.750	212.00	212.00	212.00	212.00	212.00
6.000	212.00	212.00	212.00	212.00	212.00
6.250	212.00	212.00	212.00	212.00	212.00
6.500	212.00	212.00	212.00	212.00	212.00
6.750	212.00	212.00	212.00	212.00	212.00
7.000	212.00	212.00	212.00	212.00	212.00
7.250	212.00	212.00	212.00	212.00	212.00
7.500	212.00	212.00	212.00	212.00	212.00
7.750	212.01	212.01	212.01	212.01	212.01
8.000	212.01	212.01	212.01	212.01	212.01
8.250	212.01	212.01	212.01	212.01	212.01
8.500	212.01	212.01	212.01	212.01	212.01
8.750	212.01	212.01	212.01	212.01	212.01
9.000	212.01	212.01	212.01	212.01	212.01
9.250	212.01	212.02	212.02	212.02	212.02
9.500	212.02	212.02	212.02	212.02	212.02
9.750	212.02	212.02	212.02	212.02	212.02
10.000	212.02	212.02	212.02	212.02	212.03
10.250	212.03	212.03	212.03	212.03	212.03
10.500	212.03	212.03	212.03	212.03	212.03
10.750	212.04	212.04	212.04	212.04	212.04
11.000	212.04	212.04	212.04	212.05	212.05
11.250	212.05	212.05	212.06	212.06	212.06
11.500	212.07	212.07	212.08	212.09	212.10
11.750	212.12	212.14	212.16	212.19	212.23
12.000	212.29	212.36	212.43	212.48	212.49
12.250	212.48	212.47	212.45	212.42	212.39
12.500	212.36	212.33	212.30	212.27	212.24
12.750	212.22	212.20	212.18	212.17	212.15

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 2 years
Label: IB-1C (IN) | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
13.000	212.14	212.13	212.12	212.11	212.11
13.250	212.10	212.10	212.09	212.09	212.08
13.500	212.08	212.08	212.08	212.07	212.07
13.750	212.07	212.07	212.07	212.06	212.06
14.000	212.06	212.06	212.06	212.06	212.06
14.250	212.05	212.05	212.05	212.05	212.05
14.500	212.05	212.05	212.05	212.05	212.05
14.750	212.05	212.05	212.04	212.04	212.04
15.000	212.04	212.04	212.04	212.04	212.04
15.250	212.04	212.04	212.04	212.04	212.04
15.500	212.04	212.04	212.04	212.04	212.03
15.750	212.03	212.03	212.03	212.03	212.03
16.000	212.03	212.03	212.03	212.03	212.03
16.250	212.03	212.03	212.03	212.03	212.03
16.500	212.03	212.03	212.03	212.03	212.03
16.750	212.03	212.02	212.02	212.02	212.02
17.000	212.02	212.02	212.02	212.02	212.02
17.250	212.02	212.02	212.02	212.02	212.02
17.500	212.02	212.02	212.02	212.02	212.02
17.750	212.02	212.02	212.02	212.02	212.02
18.000	212.02	212.02	212.02	212.02	212.02
18.250	212.02	212.02	212.02	212.02	212.02
18.500	212.02	212.02	212.02	212.02	212.02
18.750	212.02	212.02	212.02	212.02	212.02
19.000	212.02	212.02	212.02	212.02	212.02
19.250	212.02	212.02	212.02	212.02	212.02
19.500	212.01	212.01	212.01	212.01	212.01
19.750	212.01	212.01	212.01	212.01	212.01
20.000	212.01	212.01	212.01	212.01	212.01
20.250	212.01	212.01	212.01	212.01	212.01
20.500	212.01	212.01	212.01	212.01	212.01
20.750	212.01	212.01	212.01	212.01	212.01
21.000	212.01	212.01	212.01	212.01	212.01
21.250	212.01	212.01	212.01	212.01	212.01
21.500	212.01	212.01	212.01	212.01	212.01
21.750	212.01	212.01	212.01	212.01	212.01
22.000	212.01	212.01	212.01	212.01	212.01
22.250	212.01	212.01	212.01	212.01	212.01
22.500	212.01	212.01	212.01	212.01	212.01
22.750	212.01	212.01	212.01	212.01	212.01
23.000	212.01	212.01	212.01	212.01	212.01
23.250	212.01	212.01	212.01	212.01	212.01
23.500	212.01	212.01	212.01	212.01	212.01
23.750	212.01	212.01	212.01	212.01	212.01
24.000	212.01	(N/A)	(N/A)	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation — Return Event: 10 years
Label: IB-1C (IN) — Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	212.00	212.00	212.00	212.00	212.00
0.250	212.00	212.00	212.00	212.00	212.00
0.500	212.00	212.00	212.00	212.00	212.00
0.750	212.00	212.00	212.00	212.00	212.00
1.000	212.00	212.00	212.00	212.00	212.00
1.250	212.00	212.00	212.00	212.00	212.00
1.500	212.00	212.00	212.00	212.00	212.00
1.750	212.00	212.00	212.00	212.00	212.00
2.000	212.00	212.00	212.00	212.00	212.00
2.250	212.00	212.00	212.00	212.00	212.00
2.500	212.00	212.00	212.00	212.00	212.00
2.750	212.00	212.00	212.00	212.00	212.00
3.000	212.00	212.00	212.00	212.00	212.00
3.250	212.00	212.00	212.00	212.00	212.00
3.500	212.00	212.00	212.00	212.00	212.00
3.750	212.00	212.00	212.00	212.00	212.00
4.000	212.00	212.00	212.00	212.00	212.00
4.250	212.00	212.00	212.00	212.00	212.00
4.500	212.00	212.00	212.00	212.00	212.00
4.750	212.00	212.00	212.00	212.00	212.00
5.000	212.00	212.00	212.00	212.00	212.00
5.250	212.00	212.00	212.00	212.00	212.00
5.500	212.00	212.00	212.00	212.00	212.00
5.750	212.00	212.00	212.00	212.00	212.00
6.000	212.00	212.01	212.01	212.01	212.01
6.250	212.01	212.01	212.01	212.01	212.01
6.500	212.01	212.01	212.01	212.01	212.01
6.750	212.01	212.01	212.01	212.01	212.01
7.000	212.01	212.01	212.01	212.01	212.01
7.250	212.01	212.01	212.01	212.01	212.01
7.500	212.01	212.01	212.01	212.01	212.01
7.750	212.01	212.01	212.02	212.02	212.02
8.000	212.02	212.02	212.02	212.02	212.02
8.250	212.02	212.02	212.02	212.02	212.02
8.500	212.02	212.02	212.02	212.02	212.02
8.750	212.02	212.03	212.03	212.03	212.03
9.000	212.03	212.03	212.03	212.03	212.03
9.250	212.03	212.03	212.03	212.04	212.04
9.500	212.04	212.04	212.04	212.04	212.04
9.750	212.04	212.04	212.04	212.04	212.05
10.000	212.05	212.05	212.05	212.05	212.05
10.250	212.05	212.05	212.05	212.06	212.06
10.500	212.06	212.06	212.06	212.06	212.07
10.750	212.07	212.07	212.07	212.07	212.07
11.000	212.08	212.08	212.08	212.08	212.09

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 10 years
Label: IB-1C (IN) | Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
11.250	212.09	212.10	212.10	212.10	212.11
11.500	212.12	212.12	212.13	212.15	212.17
11.750	212.20	212.24	212.28	212.32	212.39
12.000	212.48	212.58	212.65	212.67	212.66
12.250	212.62	212.59	212.55	212.53	212.50
12.500	212.47	212.44	212.40	212.36	212.33
12.750	212.31	212.28	212.26	212.24	212.22
13.000	212.21	212.19	212.18	212.17	212.16
13.250	212.15	212.14	212.14	212.13	212.13
13.500	212.12	212.12	212.12	212.11	212.11
13.750	212.11	212.10	212.10	212.10	212.10
14.000	212.09	212.09	212.09	212.09	212.08
14.250	212.08	212.08	212.08	212.08	212.08
14.500	212.08	212.08	212.07	212.07	212.07
14.750	212.07	212.07	212.07	212.07	212.07
15.000	212.07	212.07	212.06	212.06	212.06
15.250	212.06	212.06	212.06	212.06	212.06
15.500	212.06	212.06	212.06	212.05	212.05
15.750	212.05	212.05	212.05	212.05	212.05
16.000	212.05	212.05	212.05	212.05	212.04
16.250	212.04	212.04	212.04	212.04	212.04
16.500	212.04	212.04	212.04	212.04	212.04
16.750	212.04	212.04	212.04	212.04	212.04
17.000	212.04	212.04	212.04	212.04	212.03
17.250	212.03	212.03	212.03	212.03	212.03
17.500	212.03	212.03	212.03	212.03	212.03
17.750	212.03	212.03	212.03	212.03	212.03
18.000	212.03	212.03	212.03	212.03	212.03
18.250	212.03	212.03	212.03	212.03	212.03
18.500	212.03	212.03	212.03	212.03	212.02
18.750	212.02	212.02	212.02	212.02	212.02
19.000	212.02	212.02	212.02	212.02	212.02
19.250	212.02	212.02	212.02	212.02	212.02
19.500	212.02	212.02	212.02	212.02	212.02
19.750	212.02	212.02	212.02	212.02	212.02
20.000	212.02	212.02	212.02	212.02	212.02
20.250	212.02	212.02	212.02	212.02	212.02
20.500	212.02	212.02	212.02	212.02	212.02
20.750	212.02	212.02	212.02	212.02	212.02
21.000	212.02	212.02	212.02	212.02	212.02
21.250	212.02	212.02	212.02	212.02	212.02
21.500	212.02	212.02	212.02	212.02	212.02
21.750	212.02	212.02	212.02	212.02	212.02
22.000	212.02	212.02	212.02	212.02	212.02
22.250	212.02	212.02	212.02	212.02	212.02

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 10 years
Label: IB-1C (IN) | Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
22.500	212.02	212.02	212.02	212.02	212.02
22.750	212.02	212.02	212.02	212.02	212.02
23.000	212.02	212.02	212.02	212.02	212.02
23.250	212.02	212.02	212.02	212.02	212.02
23.500	212.02	212.02	212.01	212.01	212.01
23.750	212.01	212.01	212.01	212.01	212.01
24.000	212.01	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation | Return Event: 25 years
Label: IB-1C (IN) | Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	212.00	212.00	212.00	212.00	212.00
0.250	212.00	212.00	212.00	212.00	212.00
0.500	212.00	212.00	212.00	212.00	212.00
0.750	212.00	212.00	212.00	212.00	212.00
1.000	212.00	212.00	212.00	212.00	212.00
1.250	212.00	212.00	212.00	212.00	212.00
1.500	212.00	212.00	212.00	212.00	212.00
1.750	212.00	212.00	212.00	212.00	212.00
2.000	212.00	212.00	212.00	212.00	212.00
2.250	212.00	212.00	212.00	212.00	212.00
2.500	212.00	212.00	212.00	212.00	212.00
2.750	212.00	212.00	212.00	212.00	212.00
3.000	212.00	212.00	212.00	212.00	212.00
3.250	212.00	212.00	212.00	212.00	212.00
3.500	212.00	212.00	212.00	212.00	212.00
3.750	212.00	212.00	212.00	212.00	212.00
4.000	212.00	212.00	212.00	212.00	212.00
4.250	212.00	212.00	212.00	212.00	212.00
4.500	212.00	212.00	212.00	212.00	212.00
4.750	212.00	212.00	212.00	212.00	212.01
5.000	212.01	212.01	212.01	212.01	212.01
5.250	212.01	212.01	212.01	212.01	212.01
5.500	212.01	212.01	212.01	212.01	212.01
5.750	212.01	212.01	212.01	212.01	212.01
6.000	212.01	212.01	212.01	212.01	212.01
6.250	212.01	212.01	212.01	212.01	212.01
6.500	212.01	212.01	212.01	212.01	212.01

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 25 years
Label: IB-1C (IN) | Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
6.750	212.01	212.01	212.01	212.02	212.02
7.000	212.02	212.02	212.02	212.02	212.02
7.250	212.02	212.02	212.02	212.02	212.02
7.500	212.02	212.02	212.02	212.02	212.02
7.750	212.02	212.02	212.02	212.02	212.02
8.000	212.03	212.03	212.03	212.03	212.03
8.250	212.03	212.03	212.03	212.03	212.03
8.500	212.03	212.03	212.03	212.04	212.04
8.750	212.04	212.04	212.04	212.04	212.04
9.000	212.04	212.04	212.04	212.05	212.05
9.250	212.05	212.05	212.05	212.05	212.05
9.500	212.05	212.05	212.06	212.06	212.06
9.750	212.06	212.06	212.06	212.06	212.06
10.000	212.07	212.07	212.07	212.07	212.07
10.250	212.07	212.07	212.08	212.08	212.08
10.500	212.08	212.08	212.09	212.09	212.09
10.750	212.09	212.10	212.10	212.10	212.10
11.000	212.11	212.11	212.11	212.11	212.12
11.250	212.12	212.13	212.14	212.14	212.15
11.500	212.16	212.17	212.18	212.20	212.23
11.750	212.27	212.32	212.37	212.43	212.51
12.000	212.61	212.70	212.77	212.79	212.76
12.250	212.71	212.66	212.62	212.58	212.55
12.500	212.52	212.48	212.45	212.42	212.38
12.750	212.36	212.33	212.31	212.29	212.27
13.000	212.25	212.23	212.22	212.21	212.20
13.250	212.19	212.18	212.17	212.17	212.16
13.500	212.15	212.15	212.14	212.14	212.14
13.750	212.13	212.13	212.13	212.12	212.12
14.000	212.12	212.11	212.11	212.11	212.11
14.250	212.11	212.10	212.10	212.10	212.10
14.500	212.10	212.10	212.09	212.09	212.09
14.750	212.09	212.09	212.09	212.09	212.09
15.000	212.08	212.08	212.08	212.08	212.08
15.250	212.08	212.08	212.08	212.07	212.07
15.500	212.07	212.07	212.07	212.07	212.07
15.750	212.07	212.07	212.06	212.06	212.06
16.000	212.06	212.06	212.06	212.06	212.06
16.250	212.06	212.05	212.05	212.05	212.05
16.500	212.05	212.05	212.05	212.05	212.05
16.750	212.05	212.05	212.05	212.05	212.05
17.000	212.05	212.05	212.05	212.04	212.04
17.250	212.04	212.04	212.04	212.04	212.04
17.500	212.04	212.04	212.04	212.04	212.04
17.750	212.04	212.04	212.04	212.04	212.04

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 25 years
Label: IB-1C (IN) | Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
18.000	212.04	212.04	212.03	212.03	212.03
18.250	212.03	212.03	212.03	212.03	212.03
18.500	212.03	212.03	212.03	212.03	212.03
18.750	212.03	212.03	212.03	212.03	212.03
19.000	212.03	212.03	212.03	212.03	212.03
19.250	212.03	212.03	212.03	212.03	212.03
19.500	212.03	212.03	212.03	212.03	212.03
19.750	212.03	212.03	212.03	212.03	212.03
20.000	212.03	212.03	212.03	212.03	212.03
20.250	212.03	212.03	212.03	212.03	212.03
20.500	212.03	212.03	212.03	212.03	212.03
20.750	212.03	212.03	212.03	212.03	212.03
21.000	212.02	212.02	212.02	212.02	212.02
21.250	212.02	212.02	212.02	212.02	212.02
21.500	212.02	212.02	212.02	212.02	212.02
21.750	212.02	212.02	212.02	212.02	212.02
22.000	212.02	212.02	212.02	212.02	212.02
22.250	212.02	212.02	212.02	212.02	212.02
22.500	212.02	212.02	212.02	212.02	212.02
22.750	212.02	212.02	212.02	212.02	212.02
23.000	212.02	212.02	212.02	212.02	212.02
23.250	212.02	212.02	212.02	212.02	212.02
23.500	212.02	212.02	212.02	212.02	212.02
23.750	212.02	212.02	212.02	212.02	212.02
24.000	212.02	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation | Return Event: 100 years
Label: IB-1C (IN) | Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	212.00	212.00	212.00	212.00	212.00
0.250	212.00	212.00	212.00	212.00	212.00
0.500	212.00	212.00	212.00	212.00	212.00
0.750	212.00	212.00	212.00	212.00	212.00
1.000	212.00	212.00	212.00	212.00	212.00
1.250	212.00	212.00	212.00	212.00	212.00
1.500	212.00	212.00	212.00	212.00	212.00
1.750	212.00	212.00	212.00	212.00	212.00
2.000	212.00	212.00	212.00	212.00	212.00

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation Return Event: 100 years
Label: IB-1C (IN) Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
2.250	212.00	212.00	212.00	212.00	212.00
2.500	212.00	212.00	212.00	212.00	212.00
2.750	212.00	212.00	212.00	212.00	212.00
3.000	212.00	212.00	212.00	212.00	212.00
3.250	212.00	212.00	212.00	212.00	212.00
3.500	212.00	212.00	212.00	212.01	212.01
3.750	212.01	212.01	212.01	212.01	212.01
4.000	212.01	212.01	212.01	212.01	212.01
4.250	212.01	212.01	212.01	212.01	212.01
4.500	212.01	212.01	212.01	212.01	212.01
4.750	212.01	212.01	212.01	212.01	212.01
5.000	212.01	212.01	212.01	212.01	212.02
5.250	212.02	212.02	212.02	212.02	212.02
5.500	212.02	212.02	212.02	212.02	212.02
5.750	212.02	212.02	212.02	212.02	212.02
6.000	212.02	212.02	212.02	212.02	212.02
6.250	212.02	212.02	212.02	212.02	212.02
6.500	212.02	212.03	212.03	212.03	212.03
6.750	212.03	212.03	212.03	212.03	212.03
7.000	212.03	212.03	212.03	212.03	212.03
7.250	212.03	212.04	212.04	212.04	212.04
7.500	212.04	212.04	212.04	212.04	212.04
7.750	212.04	212.04	212.04	212.04	212.04
8.000	212.05	212.05	212.05	212.05	212.05
8.250	212.05	212.05	212.05	212.05	212.05
8.500	212.06	212.06	212.06	212.06	212.06
8.750	212.06	212.06	212.07	212.07	212.07
9.000	212.07	212.07	212.07	212.08	212.08
9.250	212.08	212.08	212.08	212.08	212.09
9.500	212.09	212.09	212.09	212.09	212.09
9.750	212.10	212.10	212.10	212.10	212.10
10.000	212.10	212.11	212.11	212.11	212.11
10.250	212.12	212.12	212.12	212.12	212.13
10.500	212.13	212.13	212.14	212.14	212.14
10.750	212.15	212.15	212.15	212.16	212.16
11.000	212.16	212.17	212.17	212.18	212.18
11.250	212.19	212.20	212.21	212.22	212.23
11.500	212.24	212.25	212.27	212.30	212.35
11.750	212.41	212.47	212.54	212.60	212.67
12.000	212.78	212.90	212.98	213.00	212.96
12.250	212.88	212.80	212.74	212.69	212.64
12.500	212.59	212.55	212.52	212.49	212.46
12.750	212.44	212.41	212.39	212.37	212.35
13.000	212.33	212.31	212.29	212.28	212.27
13.250	212.26	212.25	212.24	212.23	212.22

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 100 years
Label: IB-1C (IN) | Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
13.500	212.21	212.21	212.20	212.20	212.19
13.750	212.19	212.18	212.18	212.18	212.17
14.000	212.17	212.16	212.16	212.16	212.15
14.250	212.15	212.15	212.14	212.14	212.14
14.500	212.14	212.14	212.13	212.13	212.13
14.750	212.13	212.13	212.12	212.12	212.12
15.000	212.12	212.12	212.12	212.11	212.11
15.250	212.11	212.11	212.11	212.11	212.10
15.500	212.10	212.10	212.10	212.10	212.10
15.750	212.09	212.09	212.09	212.09	212.09
16.000	212.09	212.08	212.08	212.08	212.08
16.250	212.08	212.08	212.08	212.08	212.07
16.500	212.07	212.07	212.07	212.07	212.07
16.750	212.07	212.07	212.07	212.07	212.07
17.000	212.07	212.06	212.06	212.06	212.06
17.250	212.06	212.06	212.06	212.06	212.06
17.500	212.06	212.06	212.06	212.06	212.06
17.750	212.05	212.05	212.05	212.05	212.05
18.000	212.05	212.05	212.05	212.05	212.05
18.250	212.05	212.05	212.05	212.05	212.05
18.500	212.05	212.05	212.05	212.05	212.04
18.750	212.04	212.04	212.04	212.04	212.04
19.000	212.04	212.04	212.04	212.04	212.04
19.250	212.04	212.04	212.04	212.04	212.04
19.500	212.04	212.04	212.04	212.04	212.04
19.750	212.04	212.04	212.04	212.04	212.04
20.000	212.04	212.04	212.04	212.04	212.04
20.250	212.04	212.04	212.04	212.04	212.04
20.500	212.04	212.04	212.04	212.04	212.04
20.750	212.04	212.04	212.04	212.04	212.04
21.000	212.04	212.04	212.04	212.03	212.03
21.250	212.03	212.03	212.03	212.03	212.03
21.500	212.03	212.03	212.03	212.03	212.03
21.750	212.03	212.03	212.03	212.03	212.03
22.000	212.03	212.03	212.03	212.03	212.03
22.250	212.03	212.03	212.03	212.03	212.03
22.500	212.03	212.03	212.03	212.03	212.03
22.750	212.03	212.03	212.03	212.03	212.03
23.000	212.03	212.03	212.03	212.03	212.03
23.250	212.03	212.03	212.03	212.03	212.03
23.500	212.03	212.03	212.03	212.03	212.03
23.750	212.03	212.03	212.03	212.03	212.03
24.000	212.03	(N/A)	(N/A)	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation
Return Event: 1 years
Label: IB-1D (IN)
Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	214.00	214.00	214.00	214.00	214.00
0.250	214.00	214.00	214.00	214.00	214.00
0.500	214.00	214.00	214.00	214.00	214.00
0.750	214.00	214.00	214.00	214.00	214.00
1.000	214.00	214.00	214.00	214.00	214.00
1.250	214.00	214.00	214.00	214.00	214.00
1.500	214.00	214.00	214.00	214.00	214.00
1.750	214.00	214.00	214.00	214.00	214.00
2.000	214.00	214.00	214.00	214.00	214.00
2.250	214.00	214.00	214.00	214.00	214.00
2.500	214.00	214.00	214.00	214.00	214.00
2.750	214.00	214.00	214.00	214.00	214.00
3.000	214.00	214.00	214.00	214.00	214.00
3.250	214.00	214.00	214.00	214.00	214.00
3.500	214.00	214.00	214.00	214.00	214.00
3.750	214.00	214.00	214.00	214.00	214.00
4.000	214.00	214.00	214.00	214.00	214.00
4.250	214.00	214.00	214.00	214.00	214.00
4.500	214.00	214.00	214.00	214.00	214.00
4.750	214.00	214.00	214.00	214.00	214.00
5.000	214.00	214.00	214.00	214.00	214.00
5.250	214.00	214.00	214.00	214.00	214.00
5.500	214.00	214.00	214.00	214.00	214.00
5.750	214.00	214.00	214.00	214.00	214.00
6.000	214.00	214.00	214.00	214.00	214.00
6.250	214.00	214.00	214.00	214.00	214.00
6.500	214.00	214.00	214.00	214.00	214.00
6.750	214.00	214.00	214.00	214.00	214.00
7.000	214.00	214.00	214.00	214.00	214.00
7.250	214.00	214.00	214.00	214.00	214.00
7.500	214.00	214.00	214.00	214.00	214.00
7.750	214.00	214.00	214.00	214.00	214.00
8.000	214.00	214.00	214.00	214.00	214.00
8.250	214.00	214.00	214.00	214.00	214.00
8.500	214.00	214.00	214.00	214.00	214.00
8.750	214.00	214.00	214.00	214.00	214.00
9.000	214.00	214.00	214.01	214.01	214.01
9.250	214.01	214.01	214.01	214.01	214.01
9.500	214.01	214.02	214.02	214.02	214.02
9.750	214.02	214.02	214.03	214.03	214.03
10.000	214.03	214.03	214.03	214.04	214.04
10.250	214.04	214.04	214.05	214.05	214.05
10.500	214.06	214.06	214.06	214.06	214.07
10.750	214.07	214.08	214.08	214.08	214.09
11.000	214.09	214.10	214.10	214.11	214.11

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation — Return Event: 1 years
Label: IB-1D (IN) — Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
11.250	214.12	214.13	214.13	214.14	214.15
11.500	214.16	214.17	214.19	214.21	214.24
11.750	214.27	214.32	214.37	214.43	214.52
12.000	214.65	214.82	215.01	215.18	215.30
12.250	215.40	215.48	215.54	215.59	215.63
12.500	215.66	215.68	215.70	215.71	215.71
12.750	215.72	215.72	215.72	215.73	215.73
13.000	215.72	215.72	215.72	215.72	215.71
13.250	215.71	215.70	215.70	215.69	215.69
13.500	215.68	215.68	215.67	215.66	215.66
13.750	215.65	215.64	215.64	215.63	215.62
14.000	215.61	215.60	215.59	215.58	215.57
14.250	215.56	215.55	215.54	215.53	215.52
14.500	215.51	215.50	215.49	215.48	215.46
14.750	215.45	215.44	215.43	215.41	215.40
15.000	215.39	215.38	215.36	215.35	215.33
15.250	215.32	215.31	215.29	215.28	215.26
15.500	215.25	215.23	215.22	215.20	215.19
15.750	215.17	215.16	215.14	215.13	215.11
16.000	215.09	215.08	215.06	215.04	215.03
16.250	215.01	214.99	214.97	214.96	214.94
16.500	214.92	214.90	214.88	214.86	214.84
16.750	214.83	214.81	214.79	214.77	214.75
17.000	214.73	214.71	214.69	214.67	214.65
17.250	214.63	214.61	214.59	214.57	214.55
17.500	214.53	214.51	214.49	214.47	214.45
17.750	214.43	214.42	214.40	214.38	214.37
18.000	214.35	214.34	214.33	214.31	214.30
18.250	214.29	214.28	214.27	214.26	214.25
18.500	214.24	214.24	214.23	214.22	214.21
18.750	214.21	214.20	214.20	214.19	214.18
19.000	214.18	214.17	214.17	214.17	214.16
19.250	214.16	214.15	214.15	214.15	214.14
19.500	214.14	214.14	214.14	214.13	214.13
19.750	214.13	214.13	214.12	214.12	214.12
20.000	214.12	214.12	214.11	214.11	214.11
20.250	214.11	214.11	214.11	214.10	214.10
20.500	214.10	214.10	214.10	214.10	214.10
20.750	214.10	214.10	214.09	214.09	214.09
21.000	214.09	214.09	214.09	214.09	214.09
21.250	214.09	214.09	214.09	214.09	214.09
21.500	214.08	214.08	214.08	214.08	214.08
21.750	214.08	214.08	214.08	214.08	214.08
22.000	214.08	214.08	214.08	214.08	214.08
22.250	214.08	214.08	214.08	214.08	214.07

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 1 years
Label: IB-1D (IN) | Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
22.500	214.07	214.07	214.07	214.07	214.07
22.750	214.07	214.07	214.07	214.07	214.07
23.000	214.07	214.07	214.07	214.07	214.07
23.250	214.07	214.07	214.07	214.07	214.07
23.500	214.07	214.07	214.07	214.07	214.06
23.750	214.06	214.06	214.06	214.06	214.06
24.000	214.06	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation | Return Event: 2 years
Label: IB-1D (IN) | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	214.00	214.00	214.00	214.00	214.00
0.250	214.00	214.00	214.00	214.00	214.00
0.500	214.00	214.00	214.00	214.00	214.00
0.750	214.00	214.00	214.00	214.00	214.00
1.000	214.00	214.00	214.00	214.00	214.00
1.250	214.00	214.00	214.00	214.00	214.00
1.500	214.00	214.00	214.00	214.00	214.00
1.750	214.00	214.00	214.00	214.00	214.00
2.000	214.00	214.00	214.00	214.00	214.00
2.250	214.00	214.00	214.00	214.00	214.00
2.500	214.00	214.00	214.00	214.00	214.00
2.750	214.00	214.00	214.00	214.00	214.00
3.000	214.00	214.00	214.00	214.00	214.00
3.250	214.00	214.00	214.00	214.00	214.00
3.500	214.00	214.00	214.00	214.00	214.00
3.750	214.00	214.00	214.00	214.00	214.00
4.000	214.00	214.00	214.00	214.00	214.00
4.250	214.00	214.00	214.00	214.00	214.00
4.500	214.00	214.00	214.00	214.00	214.00
4.750	214.00	214.00	214.00	214.00	214.00
5.000	214.00	214.00	214.00	214.00	214.00
5.250	214.00	214.00	214.00	214.00	214.00
5.500	214.00	214.00	214.00	214.00	214.00
5.750	214.00	214.00	214.00	214.00	214.00
6.000	214.00	214.00	214.00	214.00	214.00
6.250	214.00	214.00	214.00	214.00	214.00
6.500	214.00	214.00	214.00	214.00	214.00

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 2 years
Label: IB-1D (IN) | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
6.750	214.00	214.00	214.00	214.00	214.00
7.000	214.00	214.00	214.00	214.00	214.00
7.250	214.00	214.00	214.00	214.00	214.00
7.500	214.00	214.00	214.00	214.00	214.00
7.750	214.00	214.00	214.00	214.00	214.00
8.000	214.00	214.00	214.00	214.00	214.00
8.250	214.00	214.00	214.01	214.01	214.01
8.500	214.01	214.01	214.01	214.01	214.01
8.750	214.01	214.01	214.02	214.02	214.02
9.000	214.02	214.02	214.02	214.03	214.03
9.250	214.03	214.03	214.03	214.04	214.04
9.500	214.04	214.04	214.04	214.05	214.05
9.750	214.05	214.05	214.06	214.06	214.06
10.000	214.07	214.07	214.07	214.08	214.08
10.250	214.08	214.09	214.09	214.09	214.10
10.500	214.10	214.11	214.11	214.12	214.12
10.750	214.13	214.13	214.14	214.14	214.15
11.000	214.15	214.16	214.17	214.18	214.18
11.250	214.19	214.20	214.21	214.22	214.24
11.500	214.25	214.27	214.29	214.32	214.36
11.750	214.41	214.47	214.54	214.63	214.76
12.000	214.94	215.17	215.42	215.64	215.81
12.250	215.92	216.02	216.09	216.14	216.17
12.500	216.18	216.19	216.18	216.17	216.16
12.750	216.15	216.13	216.12	216.11	216.10
13.000	216.08	216.07	216.06	216.05	216.03
13.250	216.02	216.01	216.00	215.99	215.99
13.500	215.98	215.97	215.96	215.95	215.94
13.750	215.93	215.92	215.91	215.90	215.90
14.000	215.89	215.88	215.87	215.86	215.85
14.250	215.84	215.84	215.83	215.82	215.81
14.500	215.81	215.80	215.79	215.78	215.77
14.750	215.77	215.76	215.75	215.74	215.73
15.000	215.72	215.71	215.70	215.69	215.68
15.250	215.67	215.66	215.65	215.64	215.63
15.500	215.62	215.61	215.60	215.59	215.57
15.750	215.56	215.55	215.54	215.52	215.51
16.000	215.50	215.48	215.47	215.45	215.44
16.250	215.42	215.41	215.39	215.38	215.36
16.500	215.35	215.33	215.32	215.30	215.29
16.750	215.27	215.25	215.24	215.22	215.21
17.000	215.19	215.17	215.16	215.14	215.12
17.250	215.11	215.09	215.07	215.06	215.04
17.500	215.02	215.01	214.99	214.97	214.95
17.750	214.93	214.91	214.89	214.87	214.85

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation
Return Event: 2 years
Label: IB-1D (IN)
Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
18.000	214.84	214.82	214.80	214.78	214.76
18.250	214.74	214.72	214.70	214.68	214.66
18.500	214.64	214.62	214.60	214.58	214.56
18.750	214.54	214.52	214.50	214.48	214.46
19.000	214.44	214.42	214.40	214.39	214.37
19.250	214.36	214.35	214.33	214.32	214.31
19.500	214.30	214.29	214.28	214.27	214.26
19.750	214.25	214.24	214.24	214.23	214.22
20.000	214.22	214.21	214.21	214.20	214.19
20.250	214.19	214.18	214.18	214.18	214.17
20.500	214.17	214.16	214.16	214.16	214.15
20.750	214.15	214.15	214.15	214.14	214.14
21.000	214.14	214.14	214.13	214.13	214.13
21.250	214.13	214.13	214.12	214.12	214.12
21.500	214.12	214.12	214.12	214.12	214.11
21.750	214.11	214.11	214.11	214.11	214.11
22.000	214.11	214.11	214.11	214.10	214.10
22.250	214.10	214.10	214.10	214.10	214.10
22.500	214.10	214.10	214.10	214.10	214.10
22.750	214.09	214.09	214.09	214.09	214.09
23.000	214.09	214.09	214.09	214.09	214.09
23.250	214.09	214.09	214.09	214.09	214.09
23.500	214.09	214.08	214.08	214.08	214.08
23.750	214.08	214.08	214.08	214.08	214.08
24.000	214.08	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation
Return Event: 10 years
Label: IB-1D (IN)
Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	214.00	214.00	214.00	214.00	214.00
0.250	214.00	214.00	214.00	214.00	214.00
0.500	214.00	214.00	214.00	214.00	214.00
0.750	214.00	214.00	214.00	214.00	214.00
1.000	214.00	214.00	214.00	214.00	214.00
1.250	214.00	214.00	214.00	214.00	214.00
1.500	214.00	214.00	214.00	214.00	214.00
1.750	214.00	214.00	214.00	214.00	214.00
2.000	214.00	214.00	214.00	214.00	214.00

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation
Return Event: 10 years
Label: IB-1D (IN)
Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
2.250	214.00	214.00	214.00	214.00	214.00
2.500	214.00	214.00	214.00	214.00	214.00
2.750	214.00	214.00	214.00	214.00	214.00
3.000	214.00	214.00	214.00	214.00	214.00
3.250	214.00	214.00	214.00	214.00	214.00
3.500	214.00	214.00	214.00	214.00	214.00
3.750	214.00	214.00	214.00	214.00	214.00
4.000	214.00	214.00	214.00	214.00	214.00
4.250	214.00	214.00	214.00	214.00	214.00
4.500	214.00	214.00	214.00	214.00	214.00
4.750	214.00	214.00	214.00	214.00	214.00
5.000	214.00	214.00	214.00	214.00	214.00
5.250	214.00	214.00	214.00	214.00	214.00
5.500	214.00	214.00	214.00	214.00	214.00
5.750	214.00	214.00	214.00	214.00	214.00
6.000	214.00	214.00	214.00	214.00	214.00
6.250	214.00	214.00	214.00	214.00	214.00
6.500	214.00	214.00	214.00	214.01	214.01
6.750	214.01	214.01	214.01	214.01	214.01
7.000	214.01	214.01	214.01	214.01	214.02
7.250	214.02	214.02	214.02	214.02	214.02
7.500	214.02	214.03	214.03	214.03	214.03
7.750	214.03	214.03	214.03	214.04	214.04
8.000	214.04	214.04	214.04	214.05	214.05
8.250	214.05	214.05	214.06	214.06	214.06
8.500	214.06	214.07	214.07	214.07	214.08
8.750	214.08	214.08	214.09	214.09	214.09
9.000	214.10	214.10	214.10	214.11	214.11
9.250	214.12	214.12	214.13	214.13	214.13
9.500	214.14	214.14	214.15	214.15	214.16
9.750	214.16	214.17	214.18	214.18	214.19
10.000	214.19	214.20	214.20	214.21	214.22
10.250	214.22	214.23	214.24	214.25	214.26
10.500	214.26	214.27	214.28	214.29	214.30
10.750	214.31	214.32	214.33	214.34	214.35
11.000	214.36	214.37	214.39	214.40	214.41
11.250	214.43	214.45	214.47	214.49	214.51
11.500	214.54	214.57	214.61	214.67	214.75
11.750	214.85	214.98	215.13	215.30	215.53
12.000	215.84	216.20	216.54	216.80	216.95
12.250	217.02	217.06	217.06	217.05	217.02
12.500	216.97	216.92	216.85	216.79	216.73
12.750	216.68	216.63	216.59	216.55	216.51
13.000	216.47	216.44	216.40	216.37	216.34
13.250	216.32	216.29	216.27	216.25	216.23

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation
Return Event: 10 years
Label: IB-1D (IN)
Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
13.500	216.21	216.19	216.17	216.16	216.15
13.750	216.13	216.12	216.11	216.09	216.08
14.000	216.07	216.06	216.05	216.04	216.03
14.250	216.03	216.02	216.01	216.01	216.00
14.500	215.99	215.99	215.98	215.97	215.97
14.750	215.96	215.95	215.95	215.94	215.93
15.000	215.93	215.92	215.91	215.91	215.90
15.250	215.89	215.89	215.88	215.87	215.87
15.500	215.86	215.85	215.85	215.84	215.83
15.750	215.83	215.82	215.81	215.81	215.80
16.000	215.79	215.78	215.78	215.77	215.76
16.250	215.75	215.74	215.73	215.73	215.72
16.500	215.71	215.70	215.69	215.68	215.67
16.750	215.66	215.65	215.64	215.63	215.62
17.000	215.61	215.60	215.59	215.58	215.56
17.250	215.55	215.54	215.53	215.52	215.51
17.500	215.49	215.48	215.47	215.45	215.44
17.750	215.43	215.41	215.40	215.39	215.37
18.000	215.36	215.34	215.33	215.31	215.30
18.250	215.29	215.27	215.26	215.24	215.23
18.500	215.21	215.20	215.18	215.17	215.15
18.750	215.14	215.12	215.10	215.09	215.07
19.000	215.06	215.04	215.03	215.01	215.00
19.250	214.98	214.96	214.95	214.93	214.91
19.500	214.90	214.88	214.86	214.84	214.83
19.750	214.81	214.79	214.77	214.76	214.74
20.000	214.72	214.71	214.69	214.67	214.65
20.250	214.63	214.62	214.60	214.58	214.56
20.500	214.55	214.53	214.51	214.49	214.47
20.750	214.46	214.44	214.42	214.41	214.39
21.000	214.38	214.37	214.36	214.35	214.34
21.250	214.33	214.32	214.31	214.30	214.29
21.500	214.28	214.27	214.27	214.26	214.25
21.750	214.25	214.24	214.24	214.23	214.23
22.000	214.22	214.22	214.21	214.21	214.21
22.250	214.20	214.20	214.19	214.19	214.19
22.500	214.19	214.18	214.18	214.18	214.17
22.750	214.17	214.17	214.17	214.17	214.16
23.000	214.16	214.16	214.16	214.16	214.15
23.250	214.15	214.15	214.15	214.15	214.15
23.500	214.14	214.14	214.14	214.14	214.14
23.750	214.14	214.14	214.13	214.13	214.13
24.000	214.13	(N/A)	(N/A)	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation — Return Event: 25 years
Label: IB-1D (IN) — Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	214.00	214.00	214.00	214.00	214.00
0.250	214.00	214.00	214.00	214.00	214.00
0.500	214.00	214.00	214.00	214.00	214.00
0.750	214.00	214.00	214.00	214.00	214.00
1.000	214.00	214.00	214.00	214.00	214.00
1.250	214.00	214.00	214.00	214.00	214.00
1.500	214.00	214.00	214.00	214.00	214.00
1.750	214.00	214.00	214.00	214.00	214.00
2.000	214.00	214.00	214.00	214.00	214.00
2.250	214.00	214.00	214.00	214.00	214.00
2.500	214.00	214.00	214.00	214.00	214.00
2.750	214.00	214.00	214.00	214.00	214.00
3.000	214.00	214.00	214.00	214.00	214.00
3.250	214.00	214.00	214.00	214.00	214.00
3.500	214.00	214.00	214.00	214.00	214.00
3.750	214.00	214.00	214.00	214.00	214.00
4.000	214.00	214.00	214.00	214.00	214.00
4.250	214.00	214.00	214.00	214.00	214.00
4.500	214.00	214.00	214.00	214.00	214.00
4.750	214.00	214.00	214.00	214.00	214.00
5.000	214.00	214.00	214.00	214.00	214.00
5.250	214.00	214.00	214.00	214.00	214.00
5.500	214.00	214.00	214.00	214.01	214.01
5.750	214.01	214.01	214.01	214.01	214.01
6.000	214.01	214.01	214.01	214.01	214.02
6.250	214.02	214.02	214.02	214.02	214.02
6.500	214.02	214.02	214.03	214.03	214.03
6.750	214.03	214.03	214.03	214.04	214.04
7.000	214.04	214.04	214.04	214.05	214.05
7.250	214.05	214.05	214.05	214.06	214.06
7.500	214.06	214.06	214.07	214.07	214.07
7.750	214.07	214.08	214.08	214.08	214.08
8.000	214.09	214.09	214.09	214.10	214.10
8.250	214.10	214.11	214.11	214.11	214.12
8.500	214.12	214.13	214.13	214.14	214.14
8.750	214.15	214.15	214.16	214.16	214.17
9.000	214.17	214.18	214.18	214.19	214.20
9.250	214.20	214.21	214.21	214.22	214.23
9.500	214.23	214.24	214.25	214.26	214.26
9.750	214.27	214.28	214.29	214.29	214.30
10.000	214.31	214.32	214.33	214.34	214.34
10.250	214.35	214.36	214.38	214.39	214.40
10.500	214.41	214.42	214.43	214.45	214.46
10.750	214.47	214.49	214.50	214.51	214.53
11.000	214.54	214.56	214.58	214.60	214.63

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 25 years
Label: IB-1D (IN) | Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
11.250	214.66	214.69	214.72	214.76	214.80
11.500	214.85	214.90	214.97	215.06	215.17
11.750	215.32	215.49	215.69	215.92	216.19
12.000	216.54	216.92	217.26	217.51	217.63
12.250	217.66	217.65	217.62	217.57	217.50
12.500	217.41	217.31	217.22	217.12	217.04
12.750	216.96	216.89	216.83	216.77	216.71
13.000	216.66	216.62	216.58	216.54	216.51
13.250	216.47	216.44	216.42	216.39	216.37
13.500	216.34	216.32	216.30	216.29	216.27
13.750	216.25	216.24	216.22	216.21	216.19
14.000	216.18	216.17	216.15	216.14	216.13
14.250	216.12	216.11	216.10	216.09	216.09
14.500	216.08	216.07	216.06	216.06	216.05
14.750	216.04	216.04	216.03	216.03	216.02
15.000	216.02	216.01	216.01	216.00	216.00
15.250	215.99	215.99	215.98	215.97	215.97
15.500	215.96	215.96	215.95	215.94	215.94
15.750	215.93	215.92	215.92	215.91	215.90
16.000	215.89	215.89	215.88	215.87	215.87
16.250	215.86	215.85	215.85	215.84	215.83
16.500	215.83	215.82	215.82	215.81	215.80
16.750	215.80	215.79	215.79	215.78	215.77
17.000	215.77	215.76	215.75	215.74	215.74
17.250	215.73	215.72	215.71	215.70	215.69
17.500	215.69	215.68	215.67	215.66	215.65
17.750	215.64	215.63	215.62	215.61	215.60
18.000	215.59	215.58	215.57	215.55	215.54
18.250	215.53	215.52	215.51	215.50	215.49
18.500	215.47	215.46	215.45	215.44	215.42
18.750	215.41	215.40	215.39	215.37	215.36
19.000	215.35	215.34	215.32	215.31	215.30
19.250	215.28	215.27	215.26	215.24	215.23
19.500	215.22	215.20	215.19	215.18	215.16
19.750	215.15	215.14	215.12	215.11	215.09
20.000	215.08	215.07	215.05	215.04	215.02
20.250	215.01	215.00	214.98	214.96	214.95
20.500	214.93	214.92	214.90	214.89	214.87
20.750	214.86	214.84	214.82	214.81	214.79
21.000	214.78	214.76	214.75	214.73	214.71
21.250	214.70	214.68	214.66	214.65	214.63
21.500	214.61	214.60	214.58	214.57	214.55
21.750	214.53	214.52	214.50	214.48	214.46
22.000	214.45	214.43	214.42	214.41	214.39
22.250	214.38	214.37	214.36	214.35	214.34

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 25 years
Label: IB-1D (IN) | Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
22.500	214.33	214.32	214.31	214.31	214.30
22.750	214.29	214.28	214.28	214.27	214.26
23.000	214.26	214.25	214.25	214.24	214.24
23.250	214.23	214.23	214.23	214.22	214.22
23.500	214.21	214.21	214.21	214.20	214.20
23.750	214.20	214.20	214.19	214.19	214.19
24.000	214.19	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation | Return Event: 100 years
Label: IB-1D (IN) | Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	214.00	214.00	214.00	214.00	214.00
0.250	214.00	214.00	214.00	214.00	214.00
0.500	214.00	214.00	214.00	214.00	214.00
0.750	214.00	214.00	214.00	214.00	214.00
1.000	214.00	214.00	214.00	214.00	214.00
1.250	214.00	214.00	214.00	214.00	214.00
1.500	214.00	214.00	214.00	214.00	214.00
1.750	214.00	214.00	214.00	214.00	214.00
2.000	214.00	214.00	214.00	214.00	214.00
2.250	214.00	214.00	214.00	214.00	214.00
2.500	214.00	214.00	214.00	214.00	214.00
2.750	214.00	214.00	214.00	214.00	214.00
3.000	214.00	214.00	214.00	214.00	214.00
3.250	214.00	214.00	214.00	214.00	214.00
3.500	214.00	214.00	214.00	214.00	214.00
3.750	214.00	214.00	214.00	214.00	214.00
4.000	214.00	214.00	214.00	214.00	214.00
4.250	214.00	214.00	214.01	214.01	214.01
4.500	214.01	214.01	214.01	214.01	214.01
4.750	214.01	214.02	214.02	214.02	214.02
5.000	214.02	214.02	214.03	214.03	214.03
5.250	214.03	214.03	214.03	214.04	214.04
5.500	214.04	214.04	214.04	214.05	214.05
5.750	214.05	214.05	214.05	214.06	214.06
6.000	214.06	214.06	214.07	214.07	214.07
6.250	214.07	214.07	214.08	214.08	214.08
6.500	214.09	214.09	214.09	214.09	214.10

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 100 years
Label: IB-1D (IN) | Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
6.750	214.10	214.10	214.11	214.11	214.11
7.000	214.12	214.12	214.13	214.13	214.13
7.250	214.14	214.14	214.15	214.15	214.15
7.500	214.16	214.16	214.17	214.17	214.18
7.750	214.18	214.19	214.19	214.20	214.20
8.000	214.21	214.21	214.22	214.22	214.23
8.250	214.23	214.24	214.24	214.25	214.26
8.500	214.27	214.27	214.28	214.29	214.30
8.750	214.30	214.31	214.32	214.33	214.34
9.000	214.35	214.36	214.37	214.38	214.39
9.250	214.40	214.41	214.42	214.43	214.44
9.500	214.45	214.46	214.47	214.49	214.50
9.750	214.51	214.52	214.53	214.55	214.56
10.000	214.58	214.59	214.61	214.63	214.65
10.250	214.67	214.69	214.72	214.74	214.77
10.500	214.80	214.83	214.86	214.89	214.93
10.750	214.96	215.00	215.03	215.07	215.11
11.000	215.15	215.20	215.24	215.29	215.34
11.250	215.40	215.47	215.53	215.60	215.68
11.500	215.76	215.85	215.95	216.07	216.22
11.750	216.39	216.58	216.78	216.99	217.25
12.000	217.62	218.02	218.39	218.67	218.80
12.250	218.82	218.79	218.72	218.63	218.51
12.500	218.37	218.21	218.05	217.88	217.73
12.750	217.59	217.46	217.35	217.24	217.15
13.000	217.07	216.99	216.92	216.86	216.81
13.250	216.76	216.71	216.67	216.64	216.61
13.500	216.58	216.55	216.53	216.51	216.48
13.750	216.46	216.45	216.43	216.41	216.39
14.000	216.37	216.36	216.34	216.33	216.31
14.250	216.30	216.29	216.27	216.26	216.25
14.500	216.24	216.23	216.22	216.21	216.21
14.750	216.20	216.19	216.18	216.17	216.17
15.000	216.16	216.15	216.14	216.14	216.13
15.250	216.12	216.12	216.11	216.10	216.10
15.500	216.09	216.08	216.08	216.07	216.06
15.750	216.06	216.05	216.05	216.04	216.03
16.000	216.03	216.02	216.02	216.01	216.01
16.250	216.00	216.00	215.99	215.99	215.98
16.500	215.97	215.97	215.96	215.96	215.95
16.750	215.95	215.94	215.94	215.93	215.93
17.000	215.92	215.92	215.91	215.91	215.90
17.250	215.89	215.89	215.88	215.88	215.87
17.500	215.87	215.86	215.86	215.85	215.84
17.750	215.84	215.83	215.83	215.82	215.82

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 100 years
Label: IB-1D (IN) | Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
18.000	215.81	215.81	215.80	215.79	215.79
18.250	215.78	215.78	215.77	215.77	215.76
18.500	215.75	215.75	215.74	215.73	215.73
18.750	215.72	215.71	215.71	215.70	215.69
19.000	215.69	215.68	215.67	215.66	215.66
19.250	215.65	215.64	215.63	215.63	215.62
19.500	215.61	215.60	215.59	215.59	215.58
19.750	215.57	215.56	215.55	215.54	215.54
20.000	215.53	215.52	215.51	215.50	215.49
20.250	215.48	215.47	215.46	215.45	215.44
20.500	215.43	215.42	215.41	215.40	215.39
20.750	215.38	215.37	215.36	215.35	215.34
21.000	215.33	215.32	215.31	215.30	215.29
21.250	215.28	215.26	215.25	215.24	215.23
21.500	215.22	215.21	215.20	215.19	215.17
21.750	215.16	215.15	215.14	215.13	215.12
22.000	215.10	215.09	215.08	215.07	215.06
22.250	215.04	215.03	215.02	215.01	214.99
22.500	214.98	214.97	214.95	214.94	214.93
22.750	214.91	214.90	214.88	214.87	214.86
23.000	214.84	214.83	214.81	214.80	214.78
23.250	214.77	214.76	214.74	214.73	214.71
23.500	214.70	214.68	214.67	214.65	214.64
23.750	214.62	214.61	214.59	214.58	214.56
24.000	214.54	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation | Return Event: 1 years
Label: IB-1E (IN) | Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	238.00	238.00	238.00	238.00	238.00
0.250	238.00	238.00	238.00	238.00	238.00
0.500	238.00	238.00	238.00	238.00	238.00
0.750	238.00	238.00	238.00	238.00	238.00
1.000	238.00	238.00	238.00	238.00	238.00
1.250	238.00	238.00	238.00	238.00	238.00
1.500	238.00	238.00	238.00	238.00	238.00
1.750	238.00	238.00	238.00	238.00	238.00
2.000	238.00	238.00	238.00	238.00	238.00

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 1 years
Label: IB-1E (IN) | Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
2.250	238.00	238.00	238.00	238.00	238.00
2.500	238.00	238.00	238.00	238.00	238.00
2.750	238.00	238.00	238.00	238.00	238.00
3.000	238.00	238.00	238.00	238.00	238.00
3.250	238.00	238.00	238.00	238.00	238.00
3.500	238.00	238.00	238.00	238.00	238.00
3.750	238.00	238.00	238.00	238.00	238.00
4.000	238.00	238.00	238.00	238.00	238.00
4.250	238.00	238.00	238.00	238.00	238.00
4.500	238.00	238.00	238.00	238.00	238.00
4.750	238.00	238.00	238.00	238.00	238.00
5.000	238.00	238.00	238.00	238.00	238.00
5.250	238.00	238.00	238.00	238.00	238.00
5.500	238.00	238.00	238.00	238.00	238.00
5.750	238.00	238.00	238.00	238.00	238.00
6.000	238.00	238.00	238.00	238.00	238.00
6.250	238.00	238.00	238.00	238.00	238.00
6.500	238.00	238.00	238.00	238.00	238.00
6.750	238.00	238.00	238.00	238.00	238.00
7.000	238.00	238.00	238.00	238.00	238.00
7.250	238.00	238.00	238.00	238.00	238.00
7.500	238.00	238.00	238.00	238.00	238.00
7.750	238.00	238.00	238.00	238.00	238.00
8.000	238.00	238.00	238.00	238.00	238.00
8.250	238.00	238.00	238.00	238.00	238.00
8.500	238.00	238.00	238.00	238.00	238.00
8.750	238.00	238.00	238.00	238.00	238.00
9.000	238.00	238.00	238.00	238.00	238.00
9.250	238.00	238.00	238.00	238.00	238.00
9.500	238.00	238.00	238.01	238.01	238.01
9.750	238.01	238.01	238.01	238.01	238.01
10.000	238.02	238.02	238.02	238.02	238.02
10.250	238.03	238.03	238.03	238.03	238.04
10.500	238.04	238.04	238.04	238.05	238.05
10.750	238.05	238.06	238.06	238.07	238.07
11.000	238.08	238.08	238.08	238.09	238.10
11.250	238.10	238.11	238.12	238.13	238.14
11.500	238.15	238.16	238.17	238.19	238.22
11.750	238.25	238.30	238.35	238.41	238.50
12.000	238.63	238.79	238.98	239.14	239.27
12.250	239.37	239.45	239.52	239.58	239.63
12.500	239.66	239.69	239.71	239.72	239.74
12.750	239.75	239.76	239.77	239.78	239.78
13.000	239.79	239.79	239.80	239.80	239.80
13.250	239.80	239.81	239.81	239.81	239.81

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 1 years
Label: IB-1E (IN) | Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
13.500	239.81	239.81	239.81	239.81	239.81
13.750	239.81	239.81	239.81	239.81	239.80
14.000	239.80	239.80	239.80	239.79	239.79
14.250	239.79	239.78	239.78	239.78	239.77
14.500	239.77	239.76	239.76	239.76	239.75
14.750	239.75	239.74	239.74	239.73	239.72
15.000	239.72	239.71	239.71	239.70	239.69
15.250	239.69	239.68	239.67	239.67	239.66
15.500	239.65	239.65	239.64	239.63	239.62
15.750	239.62	239.61	239.60	239.59	239.58
16.000	239.57	239.56	239.55	239.54	239.54
16.250	239.53	239.52	239.51	239.50	239.49
16.500	239.48	239.47	239.46	239.45	239.43
16.750	239.42	239.41	239.40	239.39	239.38
17.000	239.37	239.36	239.35	239.34	239.32
17.250	239.31	239.30	239.29	239.28	239.27
17.500	239.26	239.24	239.23	239.22	239.21
17.750	239.19	239.18	239.17	239.16	239.15
18.000	239.13	239.12	239.11	239.09	239.08
18.250	239.07	239.06	239.04	239.03	239.02
18.500	239.00	238.99	238.98	238.96	238.95
18.750	238.94	238.92	238.91	238.89	238.88
19.000	238.87	238.85	238.84	238.82	238.81
19.250	238.80	238.78	238.77	238.75	238.74
19.500	238.73	238.71	238.70	238.68	238.67
19.750	238.65	238.64	238.63	238.61	238.60
20.000	238.58	238.57	238.55	238.54	238.52
20.250	238.51	238.50	238.48	238.47	238.45
20.500	238.44	238.43	238.41	238.40	238.39
20.750	238.38	238.37	238.36	238.35	238.34
21.000	238.33	238.32	238.31	238.30	238.30
21.250	238.29	238.28	238.27	238.27	238.26
21.500	238.26	238.25	238.24	238.24	238.23
21.750	238.23	238.22	238.22	238.21	238.21
22.000	238.20	238.20	238.20	238.19	238.19
22.250	238.18	238.18	238.18	238.17	238.17
22.500	238.17	238.17	238.16	238.16	238.16
22.750	238.15	238.15	238.15	238.15	238.15
23.000	238.14	238.14	238.14	238.14	238.13
23.250	238.13	238.13	238.13	238.13	238.13
23.500	238.12	238.12	238.12	238.12	238.12
23.750	238.12	238.12	238.11	238.11	238.11
24.000	238.11	(N/A)	(N/A)	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 2 years
Label: IB-1E (IN) | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	238.00	238.00	238.00	238.00	238.00
0.250	238.00	238.00	238.00	238.00	238.00
0.500	238.00	238.00	238.00	238.00	238.00
0.750	238.00	238.00	238.00	238.00	238.00
1.000	238.00	238.00	238.00	238.00	238.00
1.250	238.00	238.00	238.00	238.00	238.00
1.500	238.00	238.00	238.00	238.00	238.00
1.750	238.00	238.00	238.00	238.00	238.00
2.000	238.00	238.00	238.00	238.00	238.00
2.250	238.00	238.00	238.00	238.00	238.00
2.500	238.00	238.00	238.00	238.00	238.00
2.750	238.00	238.00	238.00	238.00	238.00
3.000	238.00	238.00	238.00	238.00	238.00
3.250	238.00	238.00	238.00	238.00	238.00
3.500	238.00	238.00	238.00	238.00	238.00
3.750	238.00	238.00	238.00	238.00	238.00
4.000	238.00	238.00	238.00	238.00	238.00
4.250	238.00	238.00	238.00	238.00	238.00
4.500	238.00	238.00	238.00	238.00	238.00
4.750	238.00	238.00	238.00	238.00	238.00
5.000	238.00	238.00	238.00	238.00	238.00
5.250	238.00	238.00	238.00	238.00	238.00
5.500	238.00	238.00	238.00	238.00	238.00
5.750	238.00	238.00	238.00	238.00	238.00
6.000	238.00	238.00	238.00	238.00	238.00
6.250	238.00	238.00	238.00	238.00	238.00
6.500	238.00	238.00	238.00	238.00	238.00
6.750	238.00	238.00	238.00	238.00	238.00
7.000	238.00	238.00	238.00	238.00	238.00
7.250	238.00	238.00	238.00	238.00	238.00
7.500	238.00	238.00	238.00	238.00	238.00
7.750	238.00	238.00	238.00	238.00	238.00
8.000	238.00	238.00	238.00	238.00	238.00
8.250	238.00	238.00	238.00	238.00	238.00
8.500	238.00	238.00	238.00	238.00	238.00
8.750	238.00	238.00	238.00	238.01	238.01
9.000	238.01	238.01	238.01	238.01	238.01
9.250	238.01	238.02	238.02	238.02	238.02
9.500	238.02	238.03	238.03	238.03	238.03
9.750	238.04	238.04	238.04	238.04	238.05
10.000	238.05	238.05	238.06	238.06	238.06
10.250	238.07	238.07	238.07	238.08	238.08
10.500	238.09	238.09	238.10	238.10	238.11
10.750	238.11	238.12	238.13	238.13	238.14
11.000	238.15	238.15	238.16	238.17	238.18

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 2 years
Label: IB-1E (IN) | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
11.250	238.19	238.20	238.21	238.22	238.24
11.500	238.25	238.27	238.29	238.32	238.36
11.750	238.41	238.47	238.54	238.63	238.75
12.000	238.94	239.17	239.41	239.63	239.81
12.250	239.93	240.04	240.11	240.17	240.21
12.500	240.23	240.24	240.24	240.23	240.23
12.750	240.22	240.21	240.20	240.19	240.18
13.000	240.17	240.16	240.14	240.13	240.12
13.250	240.12	240.11	240.10	240.09	240.08
13.500	240.08	240.07	240.06	240.06	240.05
13.750	240.05	240.04	240.04	240.03	240.03
14.000	240.02	240.02	240.01	240.01	240.01
14.250	240.00	240.00	240.00	239.99	239.99
14.500	239.98	239.98	239.98	239.97	239.97
14.750	239.96	239.96	239.96	239.95	239.95
15.000	239.94	239.94	239.94	239.93	239.93
15.250	239.92	239.92	239.91	239.91	239.91
15.500	239.90	239.90	239.89	239.89	239.88
15.750	239.88	239.87	239.86	239.86	239.85
16.000	239.85	239.84	239.83	239.82	239.82
16.250	239.81	239.80	239.80	239.79	239.78
16.500	239.77	239.76	239.76	239.75	239.74
16.750	239.73	239.72	239.72	239.71	239.70
17.000	239.69	239.68	239.67	239.66	239.65
17.250	239.65	239.64	239.63	239.62	239.61
17.500	239.60	239.59	239.58	239.57	239.56
17.750	239.55	239.54	239.53	239.52	239.51
18.000	239.50	239.49	239.48	239.46	239.45
18.250	239.44	239.43	239.42	239.41	239.40
18.500	239.38	239.37	239.36	239.35	239.34
18.750	239.33	239.31	239.30	239.29	239.28
19.000	239.27	239.26	239.24	239.23	239.22
19.250	239.21	239.20	239.18	239.17	239.16
19.500	239.15	239.14	239.12	239.11	239.10
19.750	239.09	239.07	239.06	239.05	239.04
20.000	239.02	239.01	239.00	238.99	238.97
20.250	238.96	238.95	238.93	238.92	238.91
20.500	238.89	238.88	238.87	238.85	238.84
20.750	238.83	238.81	238.80	238.79	238.77
21.000	238.76	238.74	238.73	238.72	238.70
21.250	238.69	238.68	238.66	238.65	238.63
21.500	238.62	238.61	238.59	238.58	238.56
21.750	238.55	238.54	238.52	238.51	238.49
22.000	238.48	238.47	238.45	238.44	238.43
22.250	238.41	238.40	238.39	238.38	238.37

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation
Label: IB-1E (IN)
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
22.500	238.36	238.35	238.34	238.33	238.32
22.750	238.32	238.31	238.30	238.29	238.29
23.000	238.28	238.27	238.27	238.26	238.25
23.250	238.25	238.24	238.24	238.23	238.23
23.500	238.22	238.22	238.21	238.21	238.21
23.750	238.20	238.20	238.19	238.19	238.19
24.000	238.18	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation
Label: IB-1E (IN)
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	238.00	238.00	238.00	238.00	238.00
0.250	238.00	238.00	238.00	238.00	238.00
0.500	238.00	238.00	238.00	238.00	238.00
0.750	238.00	238.00	238.00	238.00	238.00
1.000	238.00	238.00	238.00	238.00	238.00
1.250	238.00	238.00	238.00	238.00	238.00
1.500	238.00	238.00	238.00	238.00	238.00
1.750	238.00	238.00	238.00	238.00	238.00
2.000	238.00	238.00	238.00	238.00	238.00
2.250	238.00	238.00	238.00	238.00	238.00
2.500	238.00	238.00	238.00	238.00	238.00
2.750	238.00	238.00	238.00	238.00	238.00
3.000	238.00	238.00	238.00	238.00	238.00
3.250	238.00	238.00	238.00	238.00	238.00
3.500	238.00	238.00	238.00	238.00	238.00
3.750	238.00	238.00	238.00	238.00	238.00
4.000	238.00	238.00	238.00	238.00	238.00
4.250	238.00	238.00	238.00	238.00	238.00
4.500	238.00	238.00	238.00	238.00	238.00
4.750	238.00	238.00	238.00	238.00	238.00
5.000	238.00	238.00	238.00	238.00	238.00
5.250	238.00	238.00	238.00	238.00	238.00
5.500	238.00	238.00	238.00	238.00	238.00
5.750	238.00	238.00	238.00	238.00	238.00
6.000	238.00	238.00	238.00	238.00	238.00
6.250	238.00	238.00	238.00	238.00	238.00
6.500	238.00	238.00	238.00	238.00	238.00

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 10 years
Label: IB-1E (IN) | Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
6.750	238.00	238.00	238.00	238.00	238.00
7.000	238.00	238.00	238.00	238.00	238.00
7.250	238.01	238.01	238.01	238.01	238.01
7.500	238.01	238.01	238.01	238.01	238.02
7.750	238.02	238.02	238.02	238.02	238.02
8.000	238.03	238.03	238.03	238.03	238.03
8.250	238.04	238.04	238.04	238.04	238.05
8.500	238.05	238.05	238.05	238.06	238.06
8.750	238.06	238.07	238.07	238.08	238.08
9.000	238.08	238.09	238.09	238.10	238.10
9.250	238.11	238.11	238.12	238.12	238.13
9.500	238.13	238.14	238.14	238.15	238.15
9.750	238.16	238.17	238.17	238.18	238.19
10.000	238.19	238.20	238.21	238.22	238.22
10.250	238.23	238.24	238.25	238.26	238.27
10.500	238.28	238.29	238.30	238.31	238.32
10.750	238.33	238.34	238.36	238.37	238.38
11.000	238.39	238.41	238.42	238.44	238.46
11.250	238.48	238.50	238.52	238.54	238.57
11.500	238.60	238.63	238.68	238.74	238.83
11.750	238.93	239.06	239.21	239.38	239.61
12.000	239.93	240.29	240.63	240.89	241.03
12.250	241.09	241.11	241.11	241.09	241.06
12.500	241.01	240.94	240.88	240.81	240.76
12.750	240.71	240.66	240.62	240.58	240.55
13.000	240.51	240.48	240.46	240.43	240.40
13.250	240.38	240.36	240.34	240.32	240.31
13.500	240.29	240.27	240.26	240.25	240.24
13.750	240.22	240.21	240.20	240.19	240.18
14.000	240.17	240.16	240.15	240.15	240.14
14.250	240.13	240.12	240.12	240.11	240.11
14.500	240.10	240.10	240.09	240.09	240.08
14.750	240.08	240.07	240.07	240.06	240.06
15.000	240.06	240.05	240.05	240.05	240.04
15.250	240.04	240.04	240.03	240.03	240.03
15.500	240.02	240.02	240.02	240.01	240.01
15.750	240.01	240.00	240.00	240.00	239.99
16.000	239.99	239.99	239.98	239.98	239.97
16.250	239.97	239.96	239.96	239.96	239.95
16.500	239.95	239.94	239.94	239.94	239.93
16.750	239.93	239.93	239.92	239.92	239.91
17.000	239.91	239.91	239.90	239.90	239.89
17.250	239.89	239.89	239.88	239.88	239.87
17.500	239.87	239.86	239.86	239.85	239.84
17.750	239.84	239.83	239.83	239.82	239.81

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 10 years
Label: IB-1E (IN) | Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
18.000	239.81	239.80	239.79	239.79	239.78
18.250	239.77	239.77	239.76	239.75	239.74
18.500	239.74	239.73	239.72	239.72	239.71
18.750	239.70	239.69	239.69	239.68	239.67
19.000	239.66	239.65	239.65	239.64	239.63
19.250	239.62	239.62	239.61	239.60	239.59
19.500	239.58	239.57	239.57	239.56	239.55
19.750	239.54	239.53	239.52	239.52	239.51
20.000	239.50	239.49	239.48	239.47	239.46
20.250	239.45	239.44	239.43	239.42	239.41
20.500	239.41	239.40	239.39	239.38	239.37
20.750	239.36	239.35	239.34	239.33	239.32
21.000	239.31	239.30	239.29	239.28	239.27
21.250	239.26	239.25	239.24	239.23	239.22
21.500	239.21	239.20	239.19	239.18	239.17
21.750	239.16	239.15	239.14	239.13	239.11
22.000	239.10	239.09	239.08	239.07	239.06
22.250	239.05	239.04	239.03	239.02	239.01
22.500	239.00	238.98	238.97	238.96	238.95
22.750	238.94	238.93	238.91	238.90	238.89
23.000	238.88	238.87	238.85	238.84	238.83
23.250	238.82	238.80	238.79	238.78	238.77
23.500	238.76	238.74	238.73	238.72	238.71
23.750	238.69	238.68	238.67	238.65	238.64
24.000	238.63	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation | Return Event: 25 years
Label: IB-1E (IN) | Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	238.00	238.00	238.00	238.00	238.00
0.250	238.00	238.00	238.00	238.00	238.00
0.500	238.00	238.00	238.00	238.00	238.00
0.750	238.00	238.00	238.00	238.00	238.00
1.000	238.00	238.00	238.00	238.00	238.00
1.250	238.00	238.00	238.00	238.00	238.00
1.500	238.00	238.00	238.00	238.00	238.00
1.750	238.00	238.00	238.00	238.00	238.00
2.000	238.00	238.00	238.00	238.00	238.00

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 25 years
Label: IB-1E (IN) | Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
2.250	238.00	238.00	238.00	238.00	238.00
2.500	238.00	238.00	238.00	238.00	238.00
2.750	238.00	238.00	238.00	238.00	238.00
3.000	238.00	238.00	238.00	238.00	238.00
3.250	238.00	238.00	238.00	238.00	238.00
3.500	238.00	238.00	238.00	238.00	238.00
3.750	238.00	238.00	238.00	238.00	238.00
4.000	238.00	238.00	238.00	238.00	238.00
4.250	238.00	238.00	238.00	238.00	238.00
4.500	238.00	238.00	238.00	238.00	238.00
4.750	238.00	238.00	238.00	238.00	238.00
5.000	238.00	238.00	238.00	238.00	238.00
5.250	238.00	238.00	238.00	238.00	238.00
5.500	238.00	238.00	238.00	238.00	238.00
5.750	238.00	238.00	238.00	238.00	238.00
6.000	238.00	238.00	238.00	238.00	238.00
6.250	238.00	238.01	238.01	238.01	238.01
6.500	238.01	238.01	238.01	238.01	238.01
6.750	238.02	238.02	238.02	238.02	238.02
7.000	238.02	238.03	238.03	238.03	238.03
7.250	238.03	238.04	238.04	238.04	238.04
7.500	238.05	238.05	238.05	238.05	238.06
7.750	238.06	238.06	238.07	238.07	238.07
8.000	238.08	238.08	238.08	238.09	238.09
8.250	238.09	238.10	238.10	238.11	238.11
8.500	238.12	238.12	238.13	238.13	238.14
8.750	238.14	238.15	238.15	238.16	238.16
9.000	238.17	238.18	238.18	238.19	238.20
9.250	238.21	238.21	238.22	238.23	238.24
9.500	238.24	238.25	238.26	238.27	238.28
9.750	238.29	238.30	238.31	238.32	238.33
10.000	238.34	238.35	238.36	238.37	238.38
10.250	238.39	238.40	238.42	238.43	238.44
10.500	238.46	238.47	238.49	238.50	238.52
10.750	238.53	238.55	238.57	238.59	238.61
11.000	238.63	238.65	238.68	238.70	238.74
11.250	238.77	238.81	238.85	238.89	238.94
11.500	238.99	239.05	239.12	239.21	239.33
11.750	239.48	239.65	239.85	240.08	240.35
12.000	240.69	241.06	241.38	241.61	241.71
12.250	241.73	241.70	241.65	241.59	241.51
12.500	241.41	241.31	241.21	241.11	241.03
12.750	240.95	240.88	240.82	240.77	240.72
13.000	240.67	240.63	240.60	240.57	240.54
13.250	240.51	240.49	240.47	240.45	240.43

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation
Return Event: 25 years
Label: IB-1E (IN)
Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
13.500	240.41	240.39	240.38	240.36	240.35
13.750	240.33	240.32	240.31	240.30	240.28
14.000	240.27	240.26	240.25	240.24	240.23
14.250	240.22	240.21	240.21	240.20	240.19
14.500	240.19	240.18	240.17	240.17	240.16
14.750	240.15	240.15	240.14	240.14	240.13
15.000	240.13	240.12	240.12	240.12	240.11
15.250	240.11	240.10	240.10	240.09	240.09
15.500	240.08	240.08	240.08	240.07	240.07
15.750	240.06	240.06	240.05	240.05	240.05
16.000	240.04	240.04	240.03	240.03	240.03
16.250	240.02	240.02	240.02	240.01	240.01
16.500	240.01	240.01	240.00	240.00	240.00
16.750	240.00	239.99	239.99	239.99	239.99
17.000	239.98	239.98	239.98	239.97	239.97
17.250	239.97	239.96	239.96	239.96	239.95
17.500	239.95	239.95	239.94	239.94	239.93
17.750	239.93	239.93	239.92	239.92	239.92
18.000	239.91	239.91	239.90	239.90	239.90
18.250	239.89	239.89	239.88	239.88	239.87
18.500	239.87	239.87	239.86	239.86	239.85
18.750	239.85	239.84	239.84	239.83	239.83
19.000	239.82	239.82	239.81	239.81	239.80
19.250	239.80	239.79	239.79	239.78	239.78
19.500	239.77	239.76	239.76	239.75	239.75
19.750	239.74	239.73	239.73	239.72	239.72
20.000	239.71	239.70	239.70	239.69	239.68
20.250	239.68	239.67	239.67	239.66	239.65
20.500	239.65	239.64	239.63	239.63	239.62
20.750	239.61	239.60	239.60	239.59	239.58
21.000	239.58	239.57	239.56	239.55	239.55
21.250	239.54	239.53	239.53	239.52	239.51
21.500	239.50	239.49	239.49	239.48	239.47
21.750	239.46	239.45	239.45	239.44	239.43
22.000	239.42	239.41	239.40	239.39	239.39
22.250	239.38	239.37	239.36	239.35	239.34
22.500	239.33	239.32	239.32	239.31	239.30
22.750	239.29	239.28	239.27	239.26	239.25
23.000	239.24	239.23	239.22	239.21	239.20
23.250	239.19	239.18	239.17	239.16	239.15
23.500	239.14	239.13	239.12	239.11	239.10
23.750	239.09	239.08	239.07	239.06	239.05
24.000	239.04	(N/A)	(N/A)	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation — Return Event: 100 years
Label: IB-1E (IN) — Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	238.00	238.00	238.00	238.00	238.00
0.250	238.00	238.00	238.00	238.00	238.00
0.500	238.00	238.00	238.00	238.00	238.00
0.750	238.00	238.00	238.00	238.00	238.00
1.000	238.00	238.00	238.00	238.00	238.00
1.250	238.00	238.00	238.00	238.00	238.00
1.500	238.00	238.00	238.00	238.00	238.00
1.750	238.00	238.00	238.00	238.00	238.00
2.000	238.00	238.00	238.00	238.00	238.00
2.250	238.00	238.00	238.00	238.00	238.00
2.500	238.00	238.00	238.00	238.00	238.00
2.750	238.00	238.00	238.00	238.00	238.00
3.000	238.00	238.00	238.00	238.00	238.00
3.250	238.00	238.00	238.00	238.00	238.00
3.500	238.00	238.00	238.00	238.00	238.00
3.750	238.00	238.00	238.00	238.00	238.00
4.000	238.00	238.00	238.00	238.00	238.00
4.250	238.00	238.00	238.00	238.00	238.00
4.500	238.00	238.00	238.00	238.00	238.00
4.750	238.00	238.00	238.01	238.01	238.01
5.000	238.01	238.01	238.01	238.01	238.01
5.250	238.02	238.02	238.02	238.02	238.02
5.500	238.02	238.03	238.03	238.03	238.03
5.750	238.03	238.04	238.04	238.04	238.04
6.000	238.05	238.05	238.05	238.05	238.06
6.250	238.06	238.06	238.06	238.07	238.07
6.500	238.07	238.08	238.08	238.08	238.09
6.750	238.09	238.09	238.10	238.10	238.11
7.000	238.11	238.11	238.12	238.12	238.13
7.250	238.13	238.14	238.14	238.15	238.15
7.500	238.16	238.16	238.17	238.17	238.18
7.750	238.18	238.19	238.20	238.20	238.21
8.000	238.21	238.22	238.23	238.23	238.24
8.250	238.25	238.25	238.26	238.27	238.28
8.500	238.29	238.30	238.31	238.31	238.32
8.750	238.33	238.34	238.36	238.37	238.38
9.000	238.39	238.40	238.41	238.42	238.44
9.250	238.45	238.46	238.47	238.49	238.50
9.500	238.51	238.53	238.54	238.56	238.58
9.750	238.59	238.61	238.63	238.65	238.67
10.000	238.69	238.71	238.74	238.76	238.79
10.250	238.81	238.84	238.87	238.90	238.94
10.500	238.97	239.01	239.04	239.08	239.12
10.750	239.16	239.20	239.24	239.28	239.33
11.000	239.38	239.43	239.48	239.53	239.59

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
11.250	239.65	239.72	239.79	239.87	239.95
11.500	240.03	240.11	240.20	240.31	240.45
11.750	240.60	240.77	240.96	241.14	241.39
12.000	241.74	242.13	242.49	242.75	242.84
12.250	242.83	242.76	242.66	242.54	242.40
12.500	242.23	242.06	241.89	241.73	241.58
12.750	241.45	241.33	241.23	241.14	241.06
13.000	240.99	240.93	240.87	240.82	240.77
13.250	240.73	240.70	240.67	240.64	240.62
13.500	240.60	240.58	240.56	240.54	240.53
13.750	240.51	240.50	240.49	240.47	240.46
14.000	240.45	240.44	240.42	240.41	240.40
14.250	240.39	240.38	240.37	240.36	240.35
14.500	240.34	240.34	240.33	240.32	240.31
14.750	240.30	240.30	240.29	240.28	240.28
15.000	240.27	240.26	240.26	240.25	240.24
15.250	240.24	240.23	240.22	240.22	240.21
15.500	240.21	240.20	240.19	240.19	240.18
15.750	240.18	240.17	240.16	240.16	240.15
16.000	240.15	240.14	240.13	240.13	240.12
16.250	240.12	240.11	240.11	240.11	240.10
16.500	240.10	240.09	240.09	240.09	240.08
16.750	240.08	240.08	240.07	240.07	240.07
17.000	240.06	240.06	240.06	240.05	240.05
17.250	240.05	240.05	240.04	240.04	240.04
17.500	240.03	240.03	240.03	240.03	240.02
17.750	240.02	240.02	240.02	240.01	240.01
18.000	240.01	240.01	240.00	240.00	240.00
18.250	240.00	239.99	239.99	239.99	239.99
18.500	239.98	239.98	239.98	239.98	239.98
18.750	239.97	239.97	239.97	239.97	239.96
19.000	239.96	239.96	239.96	239.96	239.95
19.250	239.95	239.95	239.95	239.94	239.94
19.500	239.94	239.94	239.94	239.93	239.93
19.750	239.93	239.93	239.93	239.92	239.92
20.000	239.92	239.92	239.91	239.91	239.91
20.250	239.91	239.91	239.90	239.90	239.90
20.500	239.90	239.90	239.89	239.89	239.89
20.750	239.89	239.88	239.88	239.88	239.88
21.000	239.87	239.87	239.87	239.87	239.86
21.250	239.86	239.86	239.85	239.85	239.85
21.500	239.84	239.84	239.84	239.83	239.83
21.750	239.83	239.82	239.82	239.81	239.81
22.000	239.81	239.80	239.80	239.79	239.79
22.250	239.78	239.78	239.78	239.77	239.77

Subsection: Time vs. Elevation | Return Event: 100 years
Label: IB-1E (IN) | Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
22.500	239.76	239.76	239.75	239.75	239.74
22.750	239.74	239.73	239.73	239.72	239.72
23.000	239.71	239.71	239.70	239.69	239.69
23.250	239.68	239.68	239.67	239.67	239.66
23.500	239.65	239.65	239.64	239.63	239.63
23.750	239.62	239.62	239.61	239.60	239.60
24.000	239.59	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation | Return Event: 1 years
Label: OCS-1B (IN) | Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	201.20	201.20	201.20	201.20	201.20
0.250	201.20	201.20	201.20	201.20	201.20
0.500	201.20	201.20	201.20	201.20	201.20
0.750	201.20	201.20	201.20	201.20	201.20
1.000	201.20	201.20	201.20	201.20	201.20
1.250	201.20	201.20	201.20	201.20	201.20
1.500	201.20	201.20	201.20	201.20	201.20
1.750	201.20	201.20	201.20	201.20	201.20
2.000	201.20	201.20	201.20	201.20	201.20
2.250	201.20	201.20	201.20	201.20	201.20
2.500	201.20	201.20	201.20	201.20	201.20
2.750	201.20	201.20	201.20	201.20	201.20
3.000	201.20	201.20	201.20	201.20	201.20
3.250	201.20	201.20	201.20	201.20	201.20
3.500	201.20	201.20	201.20	201.20	201.20
3.750	201.20	201.20	201.20	201.20	201.20
4.000	201.20	201.20	201.20	201.20	201.20
4.250	201.20	201.20	201.20	201.20	201.20
4.500	201.20	201.20	201.20	201.20	201.20
4.750	201.20	201.20	201.20	201.20	201.20
5.000	201.20	201.20	201.20	201.20	201.22
5.250	201.24	201.27	201.32	201.38	201.45
5.500	201.53	201.63	201.73	201.85	201.98
5.750	202.13	202.29	202.46	202.64	202.84
6.000	203.05	203.25	203.27	203.28	203.28
6.250	203.28	203.28	203.28	203.29	203.29
6.500	203.29	203.29	203.30	203.30	203.30

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation — Return Event: 1 years
Label: OCS-1B (IN) — Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
6.750	203.30	203.30	203.31	203.31	203.31
7.000	203.31	203.32	203.32	203.32	203.33
7.250	203.33	203.33	203.33	203.34	203.34
7.500	203.34	203.35	203.35	203.35	203.36
7.750	203.36	203.36	203.37	203.37	203.37
8.000	203.38	203.38	203.39	203.39	203.40
8.250	203.40	203.41	203.41	203.42	203.43
8.500	203.43	203.44	203.44	203.45	203.46
8.750	203.47	203.47	203.48	203.49	203.49
9.000	203.50	203.50	203.51	203.51	203.51
9.250	203.51	203.52	203.52	203.52	203.52
9.500	203.53	203.53	203.53	203.53	203.54
9.750	203.54	203.54	203.55	203.55	203.55
10.000	203.55	203.56	203.56	203.57	203.57
10.250	203.58	203.58	203.59	203.59	203.60
10.500	203.60	203.61	203.61	203.62	203.62
10.750	203.63	203.64	203.64	203.65	203.65
11.000	203.66	203.67	203.68	203.69	203.71
11.250	203.72	203.73	203.74	203.75	203.76
11.500	203.77	203.80	203.85	203.92	204.02
11.750	204.10	204.18	204.26	204.33	204.51
12.000	204.79	205.00	205.09	205.03	205.19
12.250	205.45	205.62	205.81	206.00	206.08
12.500	206.16	206.26	206.35	206.40	206.43
12.750	206.44	206.44	206.44	206.43	206.43
13.000	206.42	206.41	206.41	206.40	206.40
13.250	206.39	206.39	206.38	206.37	206.36
13.500	206.35	206.34	206.33	206.31	206.29
13.750	206.28	206.26	206.24	206.21	206.19
14.000	206.18	206.16	206.15	206.14	206.13
14.250	206.12	206.11	206.09	206.08	206.06
14.500	206.05	206.03	206.02	206.00	205.99
14.750	205.97	205.95	205.92	205.90	205.87
15.000	205.85	205.82	205.78	205.75	205.72
15.250	205.69	205.67	205.66	205.65	205.64
15.500	205.63	205.62	205.61	205.60	205.58
15.750	205.57	205.55	205.53	205.51	205.49
16.000	205.46	205.44	205.41	205.37	205.34
16.250	205.30	205.26	205.22	205.20	205.16
16.500	205.12	205.07	205.04	205.02	205.00
16.750	204.98	204.95	204.93	204.90	204.86
17.000	204.83	204.79	204.75	204.71	204.68
17.250	204.65	204.62	204.58	204.54	204.51
17.500	204.50	204.47	204.45	204.43	204.40
17.750	204.37	204.34	204.30	204.26	204.22

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation — Return Event: 1 years
Label: OCS-1B (IN) — Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
18.000	204.17	204.12	204.09	204.06	204.03
18.250	204.01	204.00	203.98	203.96	203.94
18.500	203.92	203.89	203.86	203.84	203.81
18.750	203.77	203.74	203.71	203.65	203.60
19.000	203.56	203.55	203.54	203.53	203.53
19.250	203.52	203.51	203.50	203.48	203.48
19.500	203.47	203.47	203.47	203.47	203.47
19.750	203.47	203.47	203.47	203.47	203.46
20.000	203.46	203.46	203.46	203.46	203.46
20.250	203.46	203.46	203.46	203.45	203.45
20.500	203.45	203.45	203.45	203.45	203.45
20.750	203.45	203.45	203.45	203.45	203.44
21.000	203.44	203.44	203.44	203.44	203.44
21.250	203.44	203.44	203.44	203.44	203.44
21.500	203.43	203.43	203.43	203.43	203.43
21.750	203.43	203.43	203.43	203.43	203.43
22.000	203.43	203.43	203.42	203.42	203.42
22.250	203.42	203.42	203.42	203.42	203.42
22.500	203.42	203.42	203.42	203.42	203.41
22.750	203.41	203.41	203.41	203.41	203.41
23.000	203.41	203.41	203.41	203.40	203.40
23.250	203.40	203.40	203.40	203.40	203.40
23.500	203.40	203.40	203.40	203.40	203.40
23.750	203.39	203.39	203.39	203.39	203.39
24.000	203.39	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation — Return Event: 2 years
Label: OCS-1B (IN) — Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	201.20	201.20	201.20	201.20	201.20
0.250	201.20	201.20	201.20	201.20	201.20
0.500	201.20	201.20	201.20	201.20	201.20
0.750	201.20	201.20	201.20	201.20	201.20
1.000	201.20	201.20	201.20	201.20	201.20
1.250	201.20	201.20	201.20	201.20	201.20
1.500	201.20	201.20	201.20	201.20	201.20
1.750	201.20	201.20	201.20	201.20	201.20
2.000	201.20	201.20	201.20	201.20	201.20

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 2 years
Label: OCS-1B (IN) | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
2.250	201.20	201.20	201.20	201.20	201.20
2.500	201.20	201.20	201.20	201.20	201.20
2.750	201.20	201.20	201.20	201.20	201.20
3.000	201.20	201.20	201.20	201.20	201.20
3.250	201.20	201.20	201.20	201.20	201.20
3.500	201.20	201.20	201.20	201.20	201.20
3.750	201.20	201.20	201.20	201.20	201.20
4.000	201.20	201.20	201.20	201.20	201.20
4.250	201.20	201.20	201.20	201.20	201.21
4.500	201.22	201.25	201.29	201.35	201.43
4.750	201.52	201.62	201.74	201.88	202.03
5.000	202.20	202.38	202.58	202.79	203.02
5.250	203.25	203.28	203.28	203.28	203.28
5.500	203.29	203.29	203.29	203.29	203.29
5.750	203.30	203.30	203.30	203.30	203.30
6.000	203.30	203.31	203.31	203.31	203.31
6.250	203.32	203.32	203.32	203.33	203.33
6.500	203.33	203.33	203.34	203.34	203.34
6.750	203.35	203.35	203.35	203.36	203.36
7.000	203.37	203.37	203.37	203.38	203.38
7.250	203.38	203.39	203.39	203.40	203.40
7.500	203.40	203.41	203.41	203.42	203.42
7.750	203.43	203.43	203.44	203.44	203.45
8.000	203.45	203.45	203.46	203.47	203.47
8.250	203.48	203.49	203.50	203.50	203.50
8.500	203.51	203.51	203.51	203.52	203.52
8.750	203.52	203.52	203.53	203.53	203.53
9.000	203.54	203.54	203.54	203.55	203.55
9.250	203.55	203.56	203.56	203.56	203.57
9.500	203.57	203.57	203.58	203.58	203.58
9.750	203.59	203.59	203.59	203.60	203.60
10.000	203.61	203.61	203.62	203.62	203.63
10.250	203.63	203.64	203.65	203.65	203.66
10.500	203.67	203.67	203.68	203.69	203.70
10.750	203.70	203.71	203.71	203.71	203.72
11.000	203.72	203.73	203.74	203.75	203.76
11.250	203.78	203.79	203.80	203.82	203.83
11.500	203.85	203.88	203.95	204.03	204.12
11.750	204.22	204.31	204.40	204.50	204.70
12.000	205.06	205.38	205.59	205.89	206.16
12.250	206.47	206.66	206.86	206.89	206.79
12.500	206.67	206.62	206.61	206.59	206.55
12.750	206.52	206.50	206.49	206.48	206.47
13.000	206.46	206.45	206.44	206.43	206.43
13.250	206.42	206.42	206.42	206.41	206.41

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 2 years
Label: OCS-1B (IN) | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
13.500	206.41	206.41	206.40	206.40	206.40
13.750	206.39	206.39	206.38	206.38	206.37
14.000	206.36	206.35	206.33	206.32	206.30
14.250	206.29	206.27	206.25	206.23	206.21
14.500	206.19	206.18	206.16	206.15	206.14
14.750	206.13	206.12	206.11	206.09	206.08
15.000	206.06	206.05	206.03	206.02	206.01
15.250	205.99	205.97	205.96	205.94	205.91
15.500	205.89	205.86	205.84	205.81	205.77
15.750	205.74	205.71	205.68	205.67	205.66
16.000	205.65	205.64	205.63	205.61	205.60
16.250	205.59	205.58	205.56	205.54	205.52
16.500	205.50	205.48	205.46	205.43	205.40
16.750	205.37	205.34	205.30	205.26	205.23
17.000	205.20	205.18	205.15	205.10	205.06
17.250	205.03	205.01	204.99	204.97	204.94
17.500	204.91	204.88	204.85	204.81	204.78
17.750	204.73	204.70	204.67	204.64	204.59
18.000	204.55	204.52	204.50	204.49	204.47
18.250	204.44	204.42	204.39	204.36	204.33
18.500	204.29	204.25	204.21	204.16	204.12
18.750	204.09	204.06	204.03	204.01	204.00
19.000	203.99	203.97	203.95	203.92	203.90
19.250	203.88	203.85	203.82	203.79	203.76
19.500	203.73	203.69	203.64	203.59	203.56
19.750	203.55	203.55	203.54	203.53	203.53
20.000	203.52	203.51	203.50	203.50	203.50
20.250	203.50	203.50	203.50	203.50	203.50
20.500	203.50	203.50	203.50	203.50	203.49
20.750	203.49	203.49	203.49	203.49	203.49
21.000	203.49	203.49	203.49	203.48	203.48
21.250	203.48	203.48	203.48	203.48	203.48
21.500	203.48	203.48	203.47	203.47	203.47
21.750	203.47	203.47	203.47	203.47	203.47
22.000	203.47	203.46	203.46	203.46	203.46
22.250	203.46	203.46	203.46	203.46	203.46
22.500	203.45	203.45	203.45	203.45	203.45
22.750	203.45	203.45	203.45	203.45	203.45
23.000	203.44	203.44	203.44	203.44	203.44
23.250	203.44	203.44	203.44	203.44	203.43
23.500	203.43	203.43	203.43	203.43	203.43
23.750	203.43	203.43	203.42	203.42	203.42
24.000	203.42	(N/A)	(N/A)	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 10 years
Label: OCS-1B (IN) | Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	201.20	201.20	201.20	201.20	201.20
0.250	201.20	201.20	201.20	201.20	201.20
0.500	201.20	201.20	201.20	201.20	201.20
0.750	201.20	201.20	201.20	201.20	201.20
1.000	201.20	201.20	201.20	201.20	201.20
1.250	201.20	201.20	201.20	201.20	201.20
1.500	201.20	201.20	201.20	201.20	201.20
1.750	201.20	201.20	201.20	201.20	201.20
2.000	201.20	201.20	201.20	201.20	201.20
2.250	201.20	201.20	201.20	201.20	201.20
2.500	201.20	201.20	201.20	201.20	201.20
2.750	201.20	201.20	201.20	201.20	201.20
3.000	201.20	201.20	201.20	201.20	201.20
3.250	201.22	201.25	201.31	201.39	201.50
3.500	201.63	201.78	201.97	202.17	202.40
3.750	202.66	202.95	203.25	203.28	203.29
4.000	203.29	203.29	203.30	203.30	203.30
4.250	203.31	203.31	203.31	203.32	203.32
4.500	203.32	203.32	203.33	203.33	203.33
4.750	203.34	203.34	203.34	203.35	203.35
5.000	203.35	203.36	203.36	203.36	203.37
5.250	203.37	203.37	203.38	203.38	203.38
5.500	203.38	203.39	203.39	203.39	203.40
5.750	203.40	203.40	203.41	203.41	203.41
6.000	203.42	203.42	203.43	203.43	203.44
6.250	203.44	203.45	203.45	203.46	203.46
6.500	203.47	203.48	203.48	203.49	203.49
6.750	203.50	203.50	203.50	203.51	203.51
7.000	203.51	203.51	203.51	203.52	203.52
7.250	203.52	203.52	203.53	203.53	203.53
7.500	203.53	203.53	203.54	203.54	203.54
7.750	203.54	203.55	203.55	203.55	203.55
8.000	203.56	203.56	203.56	203.57	203.57
8.250	203.57	203.58	203.58	203.59	203.59
8.500	203.60	203.60	203.61	203.61	203.62
8.750	203.62	203.63	203.63	203.64	203.64
9.000	203.65	203.65	203.66	203.66	203.67
9.250	203.67	203.68	203.68	203.69	203.69
9.500	203.70	203.70	203.71	203.71	203.71
9.750	203.72	203.72	203.72	203.73	203.73
10.000	203.73	203.74	203.74	203.75	203.75
10.250	203.76	203.76	203.77	203.78	203.78
10.500	203.79	203.80	203.80	203.81	203.82
10.750	203.82	203.83	203.83	203.84	203.85
11.000	203.86	203.86	203.88	203.90	203.92

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 10 years
Label: OCS-1B (IN) | Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
11.250	203.94	203.96	203.98	204.01	204.02
11.500	204.04	204.09	204.16	204.27	204.40
11.750	204.53	204.66	204.84	204.98	205.56
12.000	206.47	206.85	207.13	207.54	207.71
12.250	207.47	207.14	206.96	206.89	206.87
12.500	206.83	206.77	206.70	206.66	206.65
12.750	206.63	206.62	206.60	206.58	206.57
13.000	206.55	206.54	206.52	206.52	206.51
13.250	206.50	206.50	206.49	206.48	206.48
13.500	206.47	206.47	206.47	206.46	206.46
13.750	206.46	206.45	206.45	206.45	206.44
14.000	206.44	206.44	206.43	206.43	206.43
14.250	206.42	206.42	206.42	206.42	206.42
14.500	206.42	206.41	206.41	206.41	206.41
14.750	206.41	206.41	206.40	206.40	206.40
15.000	206.40	206.40	206.39	206.39	206.38
15.250	206.38	206.37	206.36	206.35	206.34
15.500	206.33	206.31	206.30	206.28	206.26
15.750	206.24	206.22	206.20	206.18	206.17
16.000	206.16	206.14	206.13	206.12	206.11
16.250	206.10	206.09	206.07	206.06	206.04
16.500	206.03	206.01	206.00	205.98	205.96
16.750	205.94	205.92	205.90	205.87	205.85
17.000	205.82	205.79	205.76	205.72	205.70
17.250	205.68	205.66	205.65	205.64	205.63
17.500	205.62	205.61	205.60	205.59	205.57
17.750	205.56	205.54	205.52	205.50	205.48
18.000	205.46	205.43	205.40	205.37	205.34
18.250	205.31	205.27	205.23	205.20	205.18
18.500	205.17	205.14	205.09	205.06	205.05
18.750	205.03	205.01	204.99	204.97	204.95
19.000	204.92	204.90	204.87	204.84	204.80
19.250	204.77	204.73	204.69	204.67	204.65
19.500	204.63	204.62	204.60	204.58	204.57
19.750	204.55	204.53	204.51	204.50	204.48
20.000	204.46	204.44	204.41	204.39	204.36
20.250	204.33	204.30	204.26	204.22	204.18
20.500	204.14	204.11	204.08	204.05	204.03
20.750	204.02	204.01	204.00	203.98	203.96
21.000	203.94	203.92	203.90	203.87	203.85
21.250	203.82	203.80	203.77	203.74	203.71
21.500	203.66	203.61	203.58	203.57	203.57
21.750	203.56	203.56	203.55	203.54	203.54
22.000	203.53	203.52	203.52	203.52	203.52
22.250	203.52	203.52	203.52	203.52	203.52

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 10 years
Label: OCS-1B (IN) | Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
22.500	203.52	203.52	203.52	203.52	203.52
22.750	203.52	203.52	203.51	203.51	203.51
23.000	203.51	203.51	203.51	203.51	203.51
23.250	203.51	203.51	203.51	203.51	203.51
23.500	203.51	203.51	203.51	203.51	203.51
23.750	203.51	203.50	203.50	203.50	203.50
24.000	203.50	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation | Return Event: 25 years
Label: OCS-1B (IN) | Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	201.20	201.20	201.20	201.20	201.20
0.250	201.20	201.20	201.20	201.20	201.20
0.500	201.20	201.20	201.20	201.20	201.20
0.750	201.20	201.20	201.20	201.20	201.20
1.000	201.20	201.20	201.20	201.20	201.20
1.250	201.20	201.20	201.20	201.20	201.20
1.500	201.20	201.20	201.20	201.20	201.20
1.750	201.20	201.20	201.20	201.20	201.20
2.000	201.20	201.20	201.20	201.20	201.20
2.250	201.20	201.20	201.20	201.20	201.20
2.500	201.20	201.20	201.20	201.21	201.24
2.750	201.31	201.40	201.53	201.69	201.88
3.000	202.11	202.37	202.67	203.00	203.26
3.250	203.29	203.30	203.30	203.30	203.31
3.500	203.31	203.32	203.32	203.32	203.33
3.750	203.33	203.34	203.34	203.34	203.35
4.000	203.35	203.36	203.36	203.36	203.37
4.250	203.37	203.38	203.38	203.38	203.39
4.500	203.39	203.40	203.40	203.41	203.41
4.750	203.41	203.42	203.42	203.43	203.43
5.000	203.44	203.44	203.44	203.45	203.45
5.250	203.46	203.46	203.47	203.47	203.47
5.500	203.48	203.48	203.49	203.49	203.50
5.750	203.50	203.50	203.50	203.50	203.51
6.000	203.51	203.51	203.51	203.51	203.51
6.250	203.52	203.52	203.52	203.52	203.53
6.500	203.53	203.53	203.53	203.54	203.54

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation Return Event: 25 years
Label: OCS-1B (IN) Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
6.750	203.54	203.54	203.55	203.55	203.55
7.000	203.56	203.56	203.56	203.56	203.57
7.250	203.57	203.57	203.58	203.58	203.58
7.500	203.59	203.59	203.59	203.59	203.60
7.750	203.60	203.60	203.61	203.61	203.61
8.000	203.62	203.62	203.62	203.63	203.63
8.250	203.64	203.65	203.65	203.66	203.66
8.500	203.67	203.68	203.68	203.69	203.70
8.750	203.70	203.71	203.71	203.71	203.72
9.000	203.72	203.72	203.73	203.73	203.74
9.250	203.74	203.74	203.75	203.75	203.76
9.500	203.76	203.76	203.77	203.77	203.78
9.750	203.78	203.79	203.79	203.79	203.80
10.000	203.80	203.81	203.81	203.82	203.83
10.250	203.84	203.84	203.85	203.86	203.87
10.500	203.88	203.88	203.89	203.90	203.91
10.750	203.92	203.92	203.93	203.94	203.95
11.000	203.96	203.97	203.99	204.01	204.06
11.250	204.09	204.12	204.15	204.17	204.18
11.500	204.20	204.30	204.50	204.62	204.72
11.750	205.02	205.34	205.78	206.34	206.77
12.000	207.21	207.70	208.18	208.12	207.95
12.250	207.79	207.46	207.15	207.00	206.95
12.500	206.91	206.85	206.78	206.72	206.68
12.750	206.67	206.67	206.66	206.64	206.63
13.000	206.61	206.60	206.58	206.57	206.56
13.250	206.55	206.54	206.54	206.53	206.53
13.500	206.53	206.52	206.52	206.51	206.51
13.750	206.51	206.50	206.50	206.49	206.49
14.000	206.48	206.48	206.47	206.47	206.47
14.250	206.46	206.46	206.46	206.45	206.45
14.500	206.45	206.45	206.45	206.44	206.44
14.750	206.44	206.44	206.44	206.43	206.43
15.000	206.43	206.43	206.42	206.42	206.42
15.250	206.42	206.42	206.41	206.41	206.41
15.500	206.41	206.41	206.40	206.40	206.40
15.750	206.40	206.39	206.39	206.38	206.37
16.000	206.36	206.35	206.34	206.33	206.32
16.250	206.30	206.28	206.27	206.25	206.23
16.500	206.21	206.19	206.18	206.17	206.15
16.750	206.14	206.13	206.12	206.11	206.10
17.000	206.08	206.07	206.06	206.04	206.03
17.250	206.02	206.01	205.99	205.97	205.96
17.500	205.94	205.92	205.90	205.87	205.85
17.750	205.82	205.79	205.76	205.73	205.70

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation — Return Event: 25 years
Label: OCS-1B (IN) — Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
18.000	205.68	205.67	205.66	205.64	205.63
18.250	205.62	205.61	205.60	205.59	205.58
18.500	205.56	205.54	205.53	205.51	205.49
18.750	205.47	205.45	205.43	205.40	205.38
19.000	205.35	205.32	205.29	205.25	205.22
19.250	205.19	205.18	205.16	205.15	205.14
19.500	205.14	205.13	205.12	205.11	205.10
19.750	205.09	205.07	205.06	205.04	205.02
20.000	205.00	204.99	204.97	204.94	204.92
20.250	204.89	204.87	204.84	204.81	204.77
20.500	204.74	204.70	204.67	204.65	204.64
20.750	204.62	204.60	204.59	204.57	204.55
21.000	204.53	204.52	204.51	204.49	204.47
21.250	204.45	204.43	204.41	204.38	204.36
21.500	204.33	204.30	204.27	204.23	204.19
21.750	204.15	204.12	204.09	204.06	204.04
22.000	204.02	204.01	204.01	204.00	203.98
22.250	203.96	203.94	203.92	203.90	203.88
22.500	203.85	203.83	203.80	203.77	203.74
22.750	203.71	203.67	203.63	203.59	203.58
23.000	203.58	203.57	203.56	203.56	203.55
23.250	203.55	203.54	203.53	203.53	203.53
23.500	203.53	203.53	203.53	203.53	203.53
23.750	203.53	203.53	203.53	203.52	203.52
24.000	203.52	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation — Return Event: 100 years
Label: OCS-1B (IN) — Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	201.20	201.20	201.20	201.20	201.20
0.250	201.20	201.20	201.20	201.20	201.20
0.500	201.20	201.20	201.20	201.20	201.20
0.750	201.20	201.20	201.20	201.20	201.20
1.000	201.20	201.20	201.20	201.20	201.20
1.250	201.20	201.20	201.20	201.20	201.20
1.500	201.20	201.20	201.20	201.20	201.20
1.750	201.20	201.20	201.20	201.21	201.23
2.000	201.31	201.43	201.60	201.83	202.11

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 100 years
Label: OCS-1B (IN) | Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
2.250	202.44	202.83	203.25	203.30	203.31
2.500	203.31	203.32	203.33	203.33	203.34
2.750	203.35	203.35	203.36	203.36	203.37
3.000	203.38	203.38	203.39	203.39	203.40
3.250	203.41	203.41	203.42	203.43	203.43
3.500	203.44	203.44	203.45	203.46	203.46
3.750	203.47	203.48	203.48	203.49	203.50
4.000	203.50	203.50	203.50	203.51	203.51
4.250	203.51	203.51	203.51	203.52	203.52
4.500	203.52	203.52	203.52	203.53	203.53
4.750	203.53	203.53	203.53	203.54	203.54
5.000	203.54	203.54	203.54	203.55	203.55
5.250	203.55	203.55	203.55	203.56	203.56
5.500	203.56	203.56	203.56	203.57	203.57
5.750	203.57	203.57	203.57	203.58	203.58
6.000	203.58	203.58	203.58	203.59	203.59
6.250	203.59	203.60	203.60	203.61	203.61
6.500	203.61	203.62	203.62	203.63	203.63
6.750	203.63	203.64	203.64	203.65	203.65
7.000	203.65	203.66	203.66	203.67	203.67
7.250	203.68	203.68	203.69	203.69	203.69
7.500	203.70	203.70	203.70	203.71	203.71
7.750	203.71	203.71	203.72	203.72	203.72
8.000	203.72	203.73	203.73	203.74	203.74
8.250	203.75	203.75	203.76	203.76	203.77
8.500	203.77	203.78	203.78	203.79	203.79
8.750	203.80	203.80	203.81	203.82	203.82
9.000	203.83	203.83	203.84	203.84	203.85
9.250	203.86	203.86	203.87	203.87	203.88
9.500	203.88	203.89	203.90	203.90	203.91
9.750	203.91	203.92	203.93	203.93	203.94
10.000	203.94	203.95	203.99	204.02	204.04
10.250	204.07	204.08	204.10	204.11	204.13
10.500	204.14	204.15	204.16	204.25	204.35
10.750	204.43	204.50	204.54	204.57	204.60
11.000	204.65	204.77	204.89	205.00	205.07
11.250	205.13	205.29	205.47	205.59	205.69
11.500	205.95	206.12	206.38	206.62	206.86
11.750	207.06	207.20	207.33	207.43	207.59
12.000	208.13	208.99	209.16	208.82	208.19
12.250	208.01	207.90	207.65	207.41	207.16
12.500	207.02	206.96	206.90	206.84	206.78
12.750	206.75	206.75	206.75	206.74	206.72
13.000	206.71	206.70	206.69	206.68	206.66
13.250	206.65	206.65	206.64	206.63	206.63

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 100 years
Label: OCS-1B (IN) | Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
13.500	206.62	206.62	206.61	206.60	206.60
13.750	206.59	206.59	206.58	206.57	206.57
14.000	206.56	206.56	206.55	206.55	206.54
14.250	206.54	206.53	206.53	206.53	206.53
14.500	206.52	206.52	206.52	206.51	206.51
14.750	206.51	206.50	206.50	206.50	206.49
15.000	206.49	206.49	206.49	206.48	206.48
15.250	206.48	206.47	206.47	206.47	206.46
15.500	206.46	206.46	206.45	206.45	206.45
15.750	206.45	206.44	206.44	206.44	206.43
16.000	206.43	206.43	206.42	206.42	206.42
16.250	206.42	206.42	206.41	206.41	206.41
16.500	206.41	206.41	206.41	206.41	206.41
16.750	206.40	206.40	206.40	206.40	206.40
17.000	206.40	206.39	206.39	206.39	206.38
17.250	206.37	206.37	206.36	206.35	206.34
17.500	206.33	206.32	206.31	206.29	206.28
17.750	206.26	206.25	206.23	206.21	206.19
18.000	206.18	206.16	206.15	206.14	206.13
18.250	206.12	206.11	206.10	206.08	206.07
18.500	206.06	206.04	206.03	206.02	206.01
18.750	206.00	205.99	205.97	205.96	205.94
19.000	205.92	205.90	205.89	205.87	205.84
19.250	205.82	205.80	205.77	205.75	205.72
19.500	205.70	205.68	205.67	205.65	205.64
19.750	205.63	205.62	205.61	205.60	205.59
20.000	205.58	205.56	205.55	205.53	205.52
20.250	205.51	205.49	205.47	205.46	205.44
20.500	205.42	205.40	205.37	205.35	205.33
20.750	205.30	205.27	205.24	205.21	205.19
21.000	205.18	205.16	205.15	205.14	205.13
21.250	205.13	205.12	205.11	205.10	205.08
21.500	205.07	205.05	205.04	205.02	205.01
21.750	205.00	204.98	204.96	204.94	204.92
22.000	204.90	204.87	204.85	204.82	204.79
22.250	204.76	204.73	204.70	204.67	204.65
22.500	204.64	204.62	204.60	204.59	204.57
22.750	204.55	204.54	204.52	204.51	204.50
23.000	204.48	204.47	204.45	204.43	204.41
23.250	204.39	204.36	204.34	204.31	204.28
23.500	204.25	204.21	204.17	204.14	204.11
23.750	204.09	204.06	204.04	204.02	204.02
24.000	204.01	(N/A)	(N/A)	(N/A)	(N/A)

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	202.50	202.50	202.50	202.50	202.50
0.250	202.50	202.50	202.50	202.50	202.50
0.500	202.50	202.50	202.50	202.50	202.50
0.750	202.50	202.50	202.50	202.50	202.50
1.000	202.50	202.50	202.50	202.50	202.50
1.250	202.50	202.50	202.50	202.50	202.50
1.500	202.50	202.50	202.50	202.50	202.50
1.750	202.50	202.50	202.50	202.50	202.50
2.000	202.50	202.50	202.50	202.50	202.50
2.250	202.50	202.50	202.50	202.50	202.50
2.500	202.50	202.50	202.50	202.50	202.50
2.750	202.50	202.50	202.50	202.50	202.50
3.000	202.50	202.50	202.50	202.50	202.50
3.250	202.50	202.50	202.50	202.50	202.50
3.500	202.50	202.50	202.50	202.50	202.50
3.750	202.50	202.50	202.50	202.50	202.50
4.000	202.50	202.50	202.50	202.50	202.50
4.250	202.50	202.50	202.50	202.50	202.50
4.500	202.50	202.50	202.50	202.50	202.50
4.750	202.50	202.50	202.50	202.50	202.50
5.000	202.50	202.50	202.50	202.50	202.50
5.250	202.50	202.50	202.50	202.50	202.50
5.500	202.50	202.50	202.50	202.50	202.50
5.750	202.50	202.50	202.50	202.50	202.50
6.000	202.50	202.50	202.50	202.50	202.50
6.250	202.50	202.50	202.50	202.50	202.50
6.500	202.50	202.50	202.50	202.50	202.50
6.750	202.50	202.50	202.50	202.50	202.50
7.000	202.50	202.50	202.50	202.50	202.50
7.250	202.50	202.50	202.50	202.50	202.50
7.500	202.50	202.50	202.50	202.50	202.50
7.750	202.50	202.50	202.50	202.50	202.50
8.000	202.50	202.50	202.50	202.50	202.50
8.250	202.50	202.50	202.50	202.50	202.50
8.500	202.50	202.50	202.50	202.50	202.50
8.750	202.50	202.50	202.50	202.50	202.50
9.000	202.50	202.50	202.50	202.50	202.50
9.250	202.50	202.50	202.50	202.50	202.50
9.500	202.50	202.50	202.50	202.50	202.50
9.750	202.50	202.50	202.50	202.50	202.50
10.000	202.50	202.50	202.50	202.50	202.50
10.250	202.50	202.50	202.50	202.50	202.50
10.500	202.50	202.50	202.50	202.50	202.50
10.750	202.50	202.50	202.50	202.50	202.50
11.000	202.50	202.50	202.50	202.50	202.50

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 1 years
Label: UI-1B (IN) | Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
11.250	202.50	202.50	202.50	202.50	202.50
11.500	202.51	202.52	202.55	202.61	202.70
11.750	202.83	203.01	203.23	203.36	203.53
12.000	203.76	204.08	204.45	204.84	205.17
12.250	205.42	205.63	205.80	205.96	206.09
12.500	206.19	206.26	206.32	206.36	206.38
12.750	206.38	206.38	206.38	206.37	206.37
13.000	206.36	206.35	206.35	206.34	206.34
13.250	206.33	206.33	206.32	206.31	206.30
13.500	206.30	206.28	206.27	206.26	206.25
13.750	206.24	206.22	206.21	206.19	206.18
14.000	206.16	206.15	206.14	206.13	206.12
14.250	206.11	206.09	206.08	206.06	206.04
14.500	206.02	206.00	205.98	205.95	205.93
14.750	205.91	205.89	205.86	205.84	205.81
15.000	205.79	205.76	205.74	205.72	205.69
15.250	205.67	205.66	205.65	205.64	205.63
15.500	205.62	205.61	205.60	205.58	205.57
15.750	205.55	205.52	205.49	205.47	205.44
16.000	205.41	205.38	205.35	205.32	205.28
16.250	205.25	205.22	205.20	205.16	205.12
16.500	205.07	205.04	205.01	204.99	204.95
16.750	204.92	204.89	204.86	204.83	204.80
17.000	204.77	204.74	204.71	204.68	204.65
17.250	204.62	204.58	204.54	204.50	204.47
17.500	204.44	204.41	204.38	204.34	204.31
17.750	204.28	204.25	204.22	204.18	204.15
18.000	204.12	204.09	204.05	204.02	203.99
18.250	203.96	203.92	203.89	203.86	203.83
18.500	203.79	203.76	203.73	203.70	203.66
18.750	203.63	203.60	203.57	203.54	203.50
19.000	203.47	203.44	203.41	203.37	203.34
19.250	203.31	203.28	203.24	203.16	203.09
19.500	203.02	202.95	202.88	202.81	202.73
19.750	202.66	202.59	202.52	202.50	202.50
20.000	202.50	202.50	202.50	202.50	202.50
20.250	202.50	202.50	202.50	202.50	202.50
20.500	202.50	202.50	202.50	202.50	202.50
20.750	202.50	202.50	202.50	202.50	202.50
21.000	202.50	202.50	202.50	202.50	202.50
21.250	202.50	202.50	202.50	202.50	202.50
21.500	202.50	202.50	202.50	202.50	202.50
21.750	202.50	202.50	202.50	202.50	202.50
22.000	202.50	202.50	202.50	202.50	202.50
22.250	202.50	202.50	202.50	202.50	202.50

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 1 years
Label: UI-1B (IN) | Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
22.500	202.50	202.50	202.50	202.50	202.50
22.750	202.50	202.50	202.50	202.50	202.50
23.000	202.50	202.50	202.50	202.50	202.50
23.250	202.50	202.50	202.50	202.50	202.50
23.500	202.50	202.50	202.50	202.50	202.50
23.750	202.50	202.50	202.50	202.50	202.50
24.000	202.50	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation | Return Event: 2 years
Label: UI-1B (IN) | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	202.50	202.50	202.50	202.50	202.50
0.250	202.50	202.50	202.50	202.50	202.50
0.500	202.50	202.50	202.50	202.50	202.50
0.750	202.50	202.50	202.50	202.50	202.50
1.000	202.50	202.50	202.50	202.50	202.50
1.250	202.50	202.50	202.50	202.50	202.50
1.500	202.50	202.50	202.50	202.50	202.50
1.750	202.50	202.50	202.50	202.50	202.50
2.000	202.50	202.50	202.50	202.50	202.50
2.250	202.50	202.50	202.50	202.50	202.50
2.500	202.50	202.50	202.50	202.50	202.50
2.750	202.50	202.50	202.50	202.50	202.50
3.000	202.50	202.50	202.50	202.50	202.50
3.250	202.50	202.50	202.50	202.50	202.50
3.500	202.50	202.50	202.50	202.50	202.50
3.750	202.50	202.50	202.50	202.50	202.50
4.000	202.50	202.50	202.50	202.50	202.50
4.250	202.50	202.50	202.50	202.50	202.50
4.500	202.50	202.50	202.50	202.50	202.50
4.750	202.50	202.50	202.50	202.50	202.50
5.000	202.50	202.50	202.50	202.50	202.50
5.250	202.50	202.50	202.50	202.50	202.50
5.500	202.50	202.50	202.50	202.50	202.50
5.750	202.50	202.50	202.50	202.50	202.50
6.000	202.50	202.50	202.50	202.50	202.50
6.250	202.50	202.50	202.50	202.50	202.50
6.500	202.50	202.50	202.50	202.50	202.50

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 2 years
Label: UI-1B (IN) | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
6.750	202.50	202.50	202.50	202.50	202.50
7.000	202.50	202.50	202.50	202.50	202.50
7.250	202.50	202.50	202.50	202.50	202.50
7.500	202.50	202.50	202.50	202.50	202.50
7.750	202.50	202.50	202.50	202.50	202.50
8.000	202.50	202.50	202.50	202.50	202.50
8.250	202.50	202.50	202.50	202.50	202.50
8.500	202.50	202.50	202.50	202.50	202.50
8.750	202.50	202.50	202.50	202.50	202.50
9.000	202.50	202.50	202.50	202.50	202.50
9.250	202.50	202.50	202.50	202.50	202.50
9.500	202.50	202.50	202.50	202.50	202.50
9.750	202.50	202.50	202.50	202.50	202.50
10.000	202.50	202.50	202.50	202.50	202.50
10.250	202.50	202.50	202.50	202.50	202.50
10.500	202.50	202.50	202.50	202.50	202.50
10.750	202.50	202.50	202.50	202.50	202.50
11.000	202.50	202.50	202.50	202.50	202.50
11.250	202.51	202.52	202.54	202.56	202.59
11.500	202.63	202.67	202.74	202.84	202.98
11.750	203.18	203.33	203.48	203.65	203.87
12.000	204.19	204.62	205.12	205.65	206.14
12.250	206.55	206.86	206.93	206.80	206.67
12.500	206.62	206.61	206.59	206.55	206.49
12.750	206.47	206.45	206.44	206.42	206.41
13.000	206.40	206.39	206.38	206.37	206.37
13.250	206.36	206.36	206.35	206.35	206.35
13.500	206.35	206.35	206.34	206.34	206.34
13.750	206.34	206.33	206.33	206.32	206.31
14.000	206.30	206.29	206.28	206.27	206.26
14.250	206.24	206.23	206.22	206.20	206.19
14.500	206.18	206.16	206.15	206.14	206.13
14.750	206.12	206.11	206.09	206.08	206.06
15.000	206.04	206.02	206.00	205.98	205.96
15.250	205.94	205.92	205.90	205.87	205.85
15.500	205.83	205.80	205.78	205.76	205.73
15.750	205.71	205.68	205.67	205.66	205.65
16.000	205.64	205.63	205.61	205.60	205.59
16.250	205.58	205.56	205.54	205.52	205.49
16.500	205.46	205.43	205.40	205.37	205.34
16.750	205.31	205.29	205.26	205.23	205.20
17.000	205.18	205.15	205.10	205.06	205.02
17.250	205.00	204.97	204.94	204.91	204.88
17.500	204.85	204.82	204.79	204.76	204.73
17.750	204.70	204.67	204.64	204.59	204.55

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 2 years
Label: UI-1B (IN) | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
18.000	204.52	204.49	204.46	204.43	204.39
18.250	204.36	204.33	204.30	204.27	204.24
18.500	204.21	204.18	204.14	204.11	204.08
18.750	204.05	204.02	203.99	203.96	203.93
19.000	203.90	203.86	203.83	203.80	203.77
19.250	203.74	203.71	203.68	203.65	203.62
19.500	203.58	203.55	203.52	203.49	203.46
19.750	203.43	203.40	203.37	203.33	203.30
20.000	203.27	203.23	203.16	203.09	203.02
20.250	202.95	202.88	202.81	202.74	202.67
20.500	202.60	202.53	202.50	202.50	202.50
20.750	202.50	202.50	202.50	202.50	202.50
21.000	202.50	202.50	202.50	202.50	202.50
21.250	202.50	202.50	202.50	202.50	202.50
21.500	202.50	202.50	202.50	202.50	202.50
21.750	202.50	202.50	202.50	202.50	202.50
22.000	202.50	202.50	202.50	202.50	202.50
22.250	202.50	202.50	202.50	202.50	202.50
22.500	202.50	202.50	202.50	202.50	202.50
22.750	202.50	202.50	202.50	202.50	202.50
23.000	202.50	202.50	202.50	202.50	202.50
23.250	202.50	202.50	202.50	202.50	202.50
23.500	202.50	202.50	202.50	202.50	202.50
23.750	202.50	202.50	202.50	202.50	202.50
24.000	202.50	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation | Return Event: 10 years
Label: UI-1B (IN) | Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	202.50	202.50	202.50	202.50	202.50
0.250	202.50	202.50	202.50	202.50	202.50
0.500	202.50	202.50	202.50	202.50	202.50
0.750	202.50	202.50	202.50	202.50	202.50
1.000	202.50	202.50	202.50	202.50	202.50
1.250	202.50	202.50	202.50	202.50	202.50
1.500	202.50	202.50	202.50	202.50	202.50
1.750	202.50	202.50	202.50	202.50	202.50
2.000	202.50	202.50	202.50	202.50	202.50

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation — Return Event: 10 years
Label: UI-1B (IN) — Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
2.250	202.50	202.50	202.50	202.50	202.50
2.500	202.50	202.50	202.50	202.50	202.50
2.750	202.50	202.50	202.50	202.50	202.50
3.000	202.50	202.50	202.50	202.50	202.50
3.250	202.50	202.50	202.50	202.50	202.50
3.500	202.50	202.50	202.50	202.50	202.50
3.750	202.50	202.50	202.50	202.50	202.50
4.000	202.50	202.50	202.50	202.50	202.50
4.250	202.50	202.50	202.50	202.50	202.50
4.500	202.50	202.50	202.50	202.50	202.50
4.750	202.50	202.50	202.50	202.50	202.50
5.000	202.50	202.50	202.50	202.50	202.50
5.250	202.50	202.50	202.50	202.50	202.50
5.500	202.50	202.50	202.50	202.50	202.50
5.750	202.50	202.50	202.50	202.50	202.50
6.000	202.50	202.50	202.50	202.50	202.50
6.250	202.50	202.50	202.50	202.50	202.50
6.500	202.50	202.50	202.50	202.50	202.50
6.750	202.50	202.50	202.50	202.50	202.50
7.000	202.50	202.50	202.50	202.50	202.50
7.250	202.50	202.50	202.50	202.50	202.50
7.500	202.50	202.50	202.50	202.50	202.50
7.750	202.50	202.50	202.50	202.50	202.50
8.000	202.50	202.50	202.50	202.50	202.50
8.250	202.50	202.50	202.50	202.50	202.50
8.500	202.50	202.50	202.50	202.50	202.50
8.750	202.50	202.50	202.50	202.50	202.50
9.000	202.50	202.50	202.50	202.50	202.50
9.250	202.50	202.50	202.50	202.50	202.50
9.500	202.50	202.50	202.50	202.50	202.50
9.750	202.50	202.50	202.50	202.50	202.50
10.000	202.50	202.50	202.50	202.50	202.50
10.250	202.50	202.50	202.51	202.52	202.53
10.500	202.54	202.56	202.58	202.60	202.62
10.750	202.65	202.68	202.71	202.75	202.78
11.000	202.82	202.87	202.92	202.97	203.03
11.250	203.11	203.19	203.26	203.31	203.36
11.500	203.41	203.47	203.55	203.66	203.79
11.750	203.97	204.19	204.46	204.78	205.20
12.000	205.79	206.56	207.46	207.90	207.69
12.250	207.21	206.90	206.83	206.84	206.82
12.500	206.76	206.70	206.66	206.65	206.63
12.750	206.62	206.60	206.58	206.56	206.54
13.000	206.52	206.50	206.48	206.47	206.46
13.250	206.45	206.44	206.43	206.43	206.42

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation — Return Event: 10 years

Label: UI-1B (IN) — Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
13.500	206.42	206.41	206.41	206.41	206.40
13.750	206.40	206.39	206.39	206.39	206.38
14.000	206.38	206.38	206.37	206.37	206.37
14.250	206.36	206.36	206.36	206.36	206.36
14.500	206.36	206.35	206.35	206.35	206.35
14.750	206.35	206.35	206.34	206.34	206.34
15.000	206.34	206.34	206.33	206.33	206.32
15.250	206.32	206.31	206.30	206.29	206.28
15.500	206.27	206.26	206.25	206.24	206.23
15.750	206.21	206.20	206.18	206.17	206.16
16.000	206.14	206.13	206.12	206.11	206.10
16.250	206.09	206.07	206.05	206.03	206.01
16.500	205.99	205.97	205.95	205.93	205.90
16.750	205.88	205.86	205.84	205.81	205.79
17.000	205.77	205.74	205.72	205.70	205.68
17.250	205.66	205.65	205.64	205.63	205.62
17.500	205.61	205.60	205.59	205.57	205.56
17.750	205.53	205.51	205.48	205.45	205.43
18.000	205.40	205.37	205.34	205.32	205.29
18.250	205.26	205.23	205.20	205.18	205.17
18.500	205.14	205.09	205.06	205.05	205.03
18.750	205.00	204.97	204.94	204.92	204.89
19.000	204.86	204.83	204.80	204.78	204.75
19.250	204.72	204.69	204.67	204.65	204.63
19.500	204.62	204.60	204.58	204.57	204.55
19.750	204.52	204.50	204.47	204.44	204.41
20.000	204.38	204.36	204.33	204.30	204.27
20.250	204.24	204.21	204.18	204.16	204.13
20.500	204.10	204.07	204.04	204.01	203.99
20.750	203.96	203.93	203.90	203.87	203.84
21.000	203.81	203.78	203.76	203.73	203.70
21.250	203.67	203.64	203.61	203.58	203.55
21.500	203.53	203.50	203.47	203.44	203.41
21.750	203.38	203.35	203.32	203.29	203.27
22.000	203.22	203.15	203.09	203.03	202.96
22.250	202.90	202.83	202.77	202.70	202.64
22.500	202.57	202.50	202.50	202.50	202.50
22.750	202.50	202.50	202.50	202.50	202.50
23.000	202.50	202.50	202.50	202.50	202.50
23.250	202.50	202.50	202.50	202.50	202.50
23.500	202.50	202.50	202.50	202.50	202.50
23.750	202.50	202.50	202.50	202.50	202.50
24.000	202.50	(N/A)	(N/A)	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation　　Return Event: 25 years
Label: UI-1B (IN)　　Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	202.50	202.50	202.50	202.50	202.50
0.250	202.50	202.50	202.50	202.50	202.50
0.500	202.50	202.50	202.50	202.50	202.50
0.750	202.50	202.50	202.50	202.50	202.50
1.000	202.50	202.50	202.50	202.50	202.50
1.250	202.50	202.50	202.50	202.50	202.50
1.500	202.50	202.50	202.50	202.50	202.50
1.750	202.50	202.50	202.50	202.50	202.50
2.000	202.50	202.50	202.50	202.50	202.50
2.250	202.50	202.50	202.50	202.50	202.50
2.500	202.50	202.50	202.50	202.50	202.50
2.750	202.50	202.50	202.50	202.50	202.50
3.000	202.50	202.50	202.50	202.50	202.50
3.250	202.50	202.50	202.50	202.50	202.50
3.500	202.50	202.50	202.50	202.50	202.50
3.750	202.50	202.50	202.50	202.50	202.50
4.000	202.50	202.50	202.50	202.50	202.50
4.250	202.50	202.50	202.50	202.50	202.50
4.500	202.50	202.50	202.50	202.50	202.50
4.750	202.50	202.50	202.50	202.50	202.50
5.000	202.50	202.50	202.50	202.50	202.50
5.250	202.50	202.50	202.50	202.50	202.50
5.500	202.50	202.50	202.50	202.50	202.50
5.750	202.50	202.50	202.50	202.50	202.50
6.000	202.50	202.50	202.50	202.50	202.50
6.250	202.50	202.50	202.50	202.50	202.50
6.500	202.50	202.50	202.50	202.50	202.50
6.750	202.50	202.50	202.50	202.50	202.50
7.000	202.50	202.50	202.50	202.50	202.50
7.250	202.50	202.50	202.50	202.50	202.50
7.500	202.50	202.50	202.50	202.50	202.50
7.750	202.50	202.50	202.50	202.50	202.50
8.000	202.50	202.50	202.50	202.50	202.50
8.250	202.50	202.50	202.50	202.50	202.50
8.500	202.50	202.50	202.50	202.50	202.50
8.750	202.50	202.50	202.50	202.50	202.50
9.000	202.50	202.50	202.50	202.50	202.50
9.250	202.50	202.50	202.50	202.50	202.50
9.500	202.50	202.51	202.51	202.52	202.53
9.750	202.54	202.55	202.56	202.58	202.60
10.000	202.62	202.64	202.66	202.69	202.72
10.250	202.75	202.78	202.82	202.86	202.91
10.500	202.96	203.01	203.07	203.12	203.19
10.750	203.25	203.28	203.32	203.35	203.39
11.000	203.42	203.46	203.51	203.55	203.60

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 25 years
Label: UI-1B (IN) | Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
11.250	203.66	203.72	203.79	203.87	203.95
11.500	204.03	204.13	204.25	204.40	204.60
11.750	204.86	205.18	205.59	206.09	206.74
12.000	207.51	208.00	208.00	208.00	208.00
12.250	207.63	207.17	206.94	206.90	206.90
12.500	206.85	206.76	206.70	206.67	206.67
12.750	206.67	206.66	206.64	206.63	206.61
13.000	206.60	206.58	206.56	206.54	206.53
13.250	206.52	206.51	206.51	206.50	206.49
13.500	206.49	206.48	206.48	206.47	206.46
13.750	206.46	206.45	206.44	206.44	206.43
14.000	206.43	206.42	206.42	206.41	206.41
14.250	206.40	206.40	206.40	206.40	206.39
14.500	206.39	206.39	206.39	206.38	206.38
14.750	206.38	206.38	206.38	206.37	206.37
15.000	206.37	206.37	206.36	206.36	206.36
15.250	206.36	206.36	206.35	206.35	206.35
15.500	206.35	206.35	206.34	206.34	206.34
15.750	206.34	206.33	206.33	206.32	206.31
16.000	206.31	206.30	206.29	206.28	206.27
16.250	206.25	206.24	206.23	206.22	206.21
16.500	206.19	206.18	206.17	206.15	206.14
16.750	206.13	206.12	206.11	206.10	206.08
17.000	206.07	206.05	206.03	206.01	205.99
17.250	205.97	205.96	205.94	205.92	205.90
17.500	205.88	205.86	205.84	205.81	205.79
17.750	205.77	205.75	205.72	205.70	205.68
18.000	205.67	205.66	205.64	205.63	205.62
18.250	205.61	205.60	205.59	205.58	205.56
18.500	205.54	205.52	205.49	205.47	205.44
18.750	205.42	205.39	205.37	205.34	205.32
19.000	205.29	205.27	205.24	205.22	205.19
19.250	205.18	205.16	205.15	205.14	205.14
19.500	205.13	205.12	205.11	205.10	205.09
19.750	205.07	205.06	205.04	205.01	204.99
20.000	204.96	204.93	204.91	204.88	204.86
20.250	204.83	204.80	204.78	204.75	204.72
20.500	204.70	204.67	204.65	204.64	204.62
20.750	204.60	204.59	204.57	204.55	204.53
21.000	204.51	204.48	204.45	204.43	204.40
21.250	204.37	204.35	204.32	204.29	204.27
21.500	204.24	204.21	204.19	204.16	204.13
21.750	204.11	204.08	204.05	204.02	204.00
22.000	203.97	203.94	203.92	203.89	203.86
22.250	203.83	203.81	203.78	203.75	203.72

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation — Return Event: 25 years
Label: UI-1B (IN) — Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
22.500	203.70	203.67	203.64	203.61	203.59
22.750	203.56	203.53	203.50	203.48	203.45
23.000	203.42	203.39	203.36	203.34	203.31
23.250	203.28	203.25	203.19	203.13	203.07
23.500	203.00	202.94	202.88	202.82	202.75
23.750	202.69	202.63	202.56	202.50	202.50
24.000	202.50	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Elevation — Return Event: 100 years
Label: UI-1B (IN) — Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	202.50	202.50	202.50	202.50	202.50
0.250	202.50	202.50	202.50	202.50	202.50
0.500	202.50	202.50	202.50	202.50	202.50
0.750	202.50	202.50	202.50	202.50	202.50
1.000	202.50	202.50	202.50	202.50	202.50
1.250	202.50	202.50	202.50	202.50	202.50
1.500	202.50	202.50	202.50	202.50	202.50
1.750	202.50	202.50	202.50	202.50	202.50
2.000	202.50	202.50	202.50	202.50	202.50
2.250	202.50	202.50	202.50	202.50	202.50
2.500	202.50	202.50	202.50	202.50	202.50
2.750	202.50	202.50	202.50	202.50	202.50
3.000	202.50	202.50	202.50	202.50	202.50
3.250	202.50	202.50	202.50	202.50	202.50
3.500	202.50	202.50	202.50	202.50	202.50
3.750	202.50	202.50	202.50	202.50	202.50
4.000	202.50	202.50	202.50	202.50	202.50
4.250	202.50	202.50	202.50	202.50	202.50
4.500	202.50	202.50	202.50	202.50	202.50
4.750	202.50	202.50	202.50	202.50	202.50
5.000	202.50	202.50	202.50	202.50	202.50
5.250	202.50	202.50	202.50	202.50	202.50
5.500	202.50	202.50	202.50	202.50	202.50
5.750	202.50	202.50	202.50	202.50	202.50
6.000	202.50	202.50	202.50	202.50	202.50
6.250	202.50	202.50	202.50	202.50	202.50
6.500	202.50	202.50	202.50	202.50	202.50

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 100 years
Label: UI-1B (IN) | Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
6.750	202.50	202.50	202.50	202.50	202.50
7.000	202.50	202.50	202.50	202.50	202.50
7.250	202.50	202.50	202.50	202.50	202.50
7.500	202.50	202.50	202.50	202.50	202.50
7.750	202.50	202.50	202.50	202.50	202.50
8.000	202.50	202.50	202.50	202.50	202.50
8.250	202.50	202.50	202.50	202.50	202.51
8.500	202.51	202.52	202.53	202.55	202.56
8.750	202.58	202.60	202.62	202.65	202.67
9.000	202.70	202.73	202.77	202.80	202.84
9.250	202.88	202.93	202.97	203.02	203.07
9.500	203.12	203.18	203.24	203.27	203.30
9.750	203.33	203.36	203.39	203.42	203.46
10.000	203.49	203.53	203.57	203.61	203.65
10.250	203.69	203.74	203.79	203.84	203.89
10.500	203.95	204.01	204.07	204.13	204.19
10.750	204.26	204.33	204.41	204.48	204.56
11.000	204.64	204.73	204.82	204.91	205.02
11.250	205.14	205.26	205.40	205.55	205.71
11.500	205.89	206.10	206.36	206.68	206.97
11.750	207.16	207.25	207.32	207.40	207.60
12.000	208.00	208.00	208.00	208.00	208.00
12.250	208.00	207.81	207.47	207.16	207.00
12.500	206.95	206.90	206.82	206.75	206.72
12.750	206.72	206.72	206.72	206.71	206.69
13.000	206.69	206.68	206.67	206.66	206.65
13.250	206.64	206.64	206.63	206.62	206.62
13.500	206.61	206.60	206.60	206.59	206.58
13.750	206.58	206.57	206.56	206.55	206.55
14.000	206.54	206.53	206.52	206.52	206.51
14.250	206.50	206.50	206.50	206.49	206.49
14.500	206.48	206.48	206.47	206.47	206.46
14.750	206.46	206.45	206.45	206.45	206.44
15.000	206.44	206.43	206.43	206.43	206.42
15.250	206.42	206.42	206.41	206.41	206.41
15.500	206.40	206.40	206.40	206.39	206.39
15.750	206.39	206.38	206.38	206.38	206.37
16.000	206.37	206.37	206.36	206.36	206.36
16.250	206.36	206.36	206.35	206.35	206.35
16.500	206.35	206.35	206.35	206.35	206.35
16.750	206.34	206.34	206.34	206.34	206.34
17.000	206.34	206.33	206.33	206.33	206.32
17.250	206.32	206.31	206.30	206.30	206.29
17.500	206.28	206.27	206.26	206.25	206.24
17.750	206.23	206.22	206.20	206.19	206.18

Proposed Hydrologic Calculations Report

Subsection: Time vs. Elevation | Return Event: 100 years
Label: UI-1B (IN) | Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
18.000	206.16	206.15	206.14	206.13	206.12
18.250	206.11	206.10	206.08	206.07	206.05
18.500	206.03	206.01	206.00	205.98	205.96
18.750	205.95	205.93	205.91	205.90	205.88
19.000	205.86	205.84	205.83	205.81	205.79
19.250	205.77	205.75	205.73	205.72	205.70
19.500	205.68	205.67	205.65	205.64	205.63
19.750	205.62	205.61	205.60	205.59	205.58
20.000	205.56	205.54	205.52	205.50	205.48
20.250	205.46	205.44	205.42	205.40	205.38
20.500	205.36	205.34	205.32	205.30	205.27
20.750	205.25	205.23	205.21	205.19	205.18
21.000	205.16	205.15	205.14	205.13	205.13
21.250	205.12	205.11	205.10	205.08	205.07
21.500	205.05	205.03	205.01	204.99	204.97
21.750	204.95	204.92	204.90	204.88	204.86
22.000	204.83	204.81	204.79	204.76	204.74
22.250	204.72	204.70	204.67	204.65	204.64
22.500	204.62	204.60	204.59	204.57	204.55
22.750	204.53	204.51	204.48	204.46	204.44
23.000	204.41	204.39	204.36	204.34	204.32
23.250	204.29	204.27	204.24	204.22	204.19
23.500	204.17	204.15	204.12	204.10	204.07
23.750	204.05	204.02	204.00	203.97	203.95
24.000	203.92	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume | Return Event: 1 years
Label: IB-1C | Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume — Return Event: 1 years
Label: IB-1C — Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.250	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
5.750	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.250	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	1.000	1.000	1.000
6.750	1.000	1.000	2.000	2.000	2.000
7.000	2.000	3.000	3.000	3.000	4.000
7.250	4.000	4.000	5.000	5.000	5.000
7.500	6.000	6.000	6.000	7.000	7.000
7.750	8.000	8.000	8.000	9.000	9.000
8.000	10.000	10.000	11.000	11.000	12.000
8.250	12.000	13.000	13.000	14.000	15.000
8.500	16.000	16.000	17.000	18.000	19.000
8.750	19.000	20.000	21.000	22.000	23.000
9.000	24.000	25.000	26.000	27.000	28.000
9.250	29.000	30.000	31.000	32.000	33.000
9.500	34.000	36.000	37.000	38.000	39.000
9.750	41.000	42.000	43.000	44.000	46.000
10.000	47.000	49.000	50.000	52.000	53.000
10.250	55.000	57.000	59.000	61.000	63.000
10.500	65.000	67.000	70.000	72.000	75.000
10.750	77.000	80.000	82.000	85.000	88.000
11.000	91.000	94.000	97.000	101.000	105.000
11.250	111.000	117.000	123.000	130.000	138.000
11.500	146.000	156.000	171.000	194.000	226.000
11.750	267.000	317.000	375.000	442.000	537.000
12.000	687.000	867.000	1,039.000	1,164.000	1,204.000
12.250	1,184.000	1,142.000	1,087.000	1,024.000	953.000
12.500	876.000	797.000	721.000	649.000	587.000
12.750	533.000	486.000	444.000	408.000	376.000
13.000	348.000	322.000	300.000	280.000	263.000
13.250	248.000	235.000	224.000	214.000	205.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 1 years
Label: IB-1C | Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
13.500	198.000	191.000	184.000	179.000	173.000
13.750	168.000	164.000	160.000	156.000	152.000
14.000	148.000	144.000	141.000	138.000	135.000
14.250	132.000	130.000	128.000	126.000	124.000
14.500	122.000	120.000	118.000	117.000	115.000
14.750	113.000	112.000	110.000	109.000	107.000
15.000	106.000	104.000	103.000	101.000	100.000
15.250	98.000	97.000	95.000	94.000	92.000
15.500	91.000	90.000	88.000	87.000	85.000
15.750	84.000	82.000	81.000	79.000	78.000
16.000	77.000	75.000	74.000	72.000	71.000
16.250	70.000	69.000	68.000	67.000	66.000
16.500	66.000	65.000	64.000	63.000	63.000
16.750	62.000	61.000	60.000	60.000	59.000
17.000	58.000	58.000	57.000	56.000	56.000
17.250	55.000	55.000	54.000	53.000	53.000
17.500	52.000	51.000	51.000	50.000	49.000
17.750	49.000	48.000	47.000	47.000	46.000
18.000	46.000	45.000	44.000	44.000	43.000
18.250	43.000	42.000	42.000	42.000	41.000
18.500	41.000	41.000	41.000	40.000	40.000
18.750	40.000	40.000	39.000	39.000	39.000
19.000	39.000	39.000	38.000	38.000	38.000
19.250	38.000	38.000	37.000	37.000	37.000
19.500	37.000	37.000	36.000	36.000	36.000
19.750	36.000	36.000	35.000	35.000	35.000
20.000	35.000	35.000	35.000	34.000	34.000
20.250	34.000	34.000	34.000	34.000	33.000
20.500	33.000	33.000	33.000	33.000	33.000
20.750	32.000	32.000	32.000	32.000	32.000
21.000	32.000	32.000	31.000	31.000	31.000
21.250	31.000	31.000	31.000	31.000	30.000
21.500	30.000	30.000	30.000	30.000	30.000
21.750	30.000	29.000	29.000	29.000	29.000
22.000	29.000	29.000	29.000	28.000	28.000
22.250	28.000	28.000	28.000	28.000	28.000
22.500	27.000	27.000	27.000	27.000	27.000
22.750	27.000	27.000	26.000	26.000	26.000
23.000	26.000	26.000	26.000	26.000	25.000
23.250	25.000	25.000	25.000	25.000	25.000
23.500	25.000	24.000	24.000	24.000	24.000
23.750	24.000	24.000	24.000	23.000	23.000
24.000	23.000	(N/A)	(N/A)	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 2 years
Label: IB-1C | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.250	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
5.750	1.000	1.000	1.000	1.000	1.000
6.000	1.000	2.000	2.000	2.000	2.000
6.250	3.000	3.000	3.000	4.000	4.000
6.500	4.000	5.000	5.000	5.000	6.000
6.750	6.000	6.000	7.000	7.000	8.000
7.000	8.000	9.000	9.000	9.000	10.000
7.250	10.000	11.000	11.000	12.000	12.000
7.500	13.000	14.000	14.000	15.000	15.000
7.750	16.000	16.000	17.000	18.000	18.000
8.000	19.000	19.000	20.000	21.000	22.000
8.250	22.000	23.000	24.000	25.000	26.000
8.500	27.000	28.000	29.000	30.000	31.000
8.750	33.000	34.000	35.000	36.000	38.000
9.000	39.000	40.000	41.000	43.000	44.000
9.250	46.000	47.000	49.000	50.000	52.000
9.500	53.000	55.000	56.000	58.000	60.000
9.750	61.000	63.000	65.000	67.000	68.000
10.000	70.000	72.000	74.000	76.000	78.000
10.250	80.000	83.000	86.000	88.000	91.000
10.500	94.000	97.000	100.000	103.000	106.000
10.750	110.000	113.000	117.000	120.000	124.000
11.000	127.000	131.000	135.000	140.000	147.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 2 years
Label: IB-1C | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
11.250	154.000	161.000	170.000	179.000	189.000
11.500	199.000	213.000	233.000	263.000	305.000
11.750	360.000	426.000	502.000	589.000	712.000
12.000	907.000	1,139.000	1,359.000	1,514.000	1,562.000
12.250	1,536.000	1,482.000	1,409.000	1,323.000	1,229.000
12.500	1,127.000	1,024.000	923.000	830.000	749.000
12.750	679.000	618.000	565.000	518.000	477.000
13.000	440.000	407.000	378.000	353.000	331.000
13.250	312.000	296.000	281.000	269.000	258.000
13.500	248.000	239.000	231.000	224.000	217.000
13.750	211.000	205.000	200.000	194.000	190.000
14.000	185.000	180.000	176.000	172.000	169.000
14.250	165.000	162.000	159.000	157.000	154.000
14.500	152.000	149.000	147.000	145.000	143.000
14.750	141.000	139.000	137.000	135.000	133.000
15.000	131.000	130.000	128.000	126.000	124.000
15.250	122.000	120.000	119.000	117.000	115.000
15.500	113.000	111.000	109.000	108.000	106.000
15.750	104.000	102.000	100.000	99.000	97.000
16.000	95.000	93.000	92.000	90.000	88.000
16.250	87.000	86.000	85.000	83.000	82.000
16.500	81.000	80.000	79.000	78.000	78.000
16.750	77.000	76.000	75.000	74.000	73.000
17.000	72.000	72.000	71.000	70.000	69.000
17.250	68.000	68.000	67.000	66.000	65.000
17.500	64.000	64.000	63.000	62.000	61.000
17.750	60.000	60.000	59.000	58.000	57.000
18.000	57.000	56.000	55.000	54.000	54.000
18.250	53.000	53.000	52.000	52.000	51.000
18.500	51.000	51.000	50.000	50.000	50.000
18.750	49.000	49.000	49.000	49.000	48.000
19.000	48.000	48.000	48.000	47.000	47.000
19.250	47.000	47.000	46.000	46.000	46.000
19.500	46.000	45.000	45.000	45.000	45.000
19.750	44.000	44.000	44.000	44.000	43.000
20.000	43.000	43.000	43.000	43.000	42.000
20.250	42.000	42.000	42.000	42.000	41.000
20.500	41.000	41.000	41.000	41.000	40.000
20.750	40.000	40.000	40.000	40.000	39.000
21.000	39.000	39.000	39.000	39.000	39.000
21.250	38.000	38.000	38.000	38.000	38.000
21.500	37.000	37.000	37.000	37.000	37.000
21.750	37.000	36.000	36.000	36.000	36.000
22.000	36.000	36.000	35.000	35.000	35.000
22.250	35.000	35.000	34.000	34.000	34.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 2 years
Label: IB-1C | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
22.500	34.000	34.000	34.000	33.000	33.000
22.750	33.000	33.000	33.000	33.000	32.000
23.000	32.000	32.000	32.000	32.000	31.000
23.250	31.000	31.000	31.000	31.000	31.000
23.500	30.000	30.000	30.000	30.000	30.000
23.750	29.000	29.000	29.000	29.000	29.000
24.000	29.000	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume | Return Event: 10 years
Label: IB-1C | Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	1.000	1.000	1.000	1.000	2.000
4.500	2.000	2.000	3.000	3.000	3.000
4.750	4.000	4.000	5.000	5.000	5.000
5.000	6.000	6.000	7.000	7.000	8.000
5.250	8.000	9.000	9.000	9.000	10.000
5.500	10.000	11.000	11.000	12.000	12.000
5.750	13.000	13.000	14.000	14.000	15.000
6.000	15.000	16.000	16.000	17.000	17.000
6.250	18.000	18.000	19.000	20.000	20.000
6.500	21.000	22.000	23.000	23.000	24.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 10 years
Label: IB-1C | Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
6.750	25.000	26.000	27.000	27.000	28.000
7.000	29.000	30.000	31.000	32.000	33.000
7.250	34.000	35.000	36.000	37.000	38.000
7.500	39.000	40.000	41.000	42.000	43.000
7.750	44.000	45.000	46.000	48.000	49.000
8.000	50.000	51.000	52.000	54.000	55.000
8.250	57.000	58.000	60.000	62.000	63.000
8.500	65.000	67.000	69.000	71.000	74.000
8.750	76.000	78.000	80.000	82.000	85.000
9.000	87.000	90.000	92.000	94.000	97.000
9.250	100.000	102.000	105.000	107.000	110.000
9.500	113.000	115.000	118.000	121.000	124.000
9.750	127.000	129.000	132.000	135.000	138.000
10.000	141.000	144.000	147.000	151.000	154.000
10.250	158.000	162.000	167.000	171.000	176.000
10.500	181.000	186.000	191.000	196.000	202.000
10.750	207.000	213.000	218.000	224.000	230.000
11.000	236.000	242.000	249.000	258.000	268.000
11.250	280.000	293.000	307.000	322.000	339.000
11.500	356.000	379.000	413.000	464.000	536.000
11.750	628.000	739.000	868.000	1,011.000	1,217.000
12.000	1,536.000	1,853.000	2,080.000	2,177.000	2,121.000
12.250	1,996.000	1,876.000	1,772.000	1,680.000	1,595.000
12.500	1,498.000	1,384.000	1,263.000	1,147.000	1,045.000
12.750	956.000	878.000	809.000	748.000	693.000
13.000	644.000	600.000	560.000	525.000	495.000
13.250	469.000	446.000	426.000	408.000	392.000
13.500	378.000	365.000	354.000	343.000	333.000
13.750	324.000	316.000	307.000	300.000	292.000
14.000	285.000	278.000	272.000	266.000	260.000
14.250	255.000	250.000	246.000	242.000	238.000
14.500	234.000	231.000	227.000	224.000	221.000
14.750	218.000	214.000	211.000	208.000	205.000
15.000	203.000	200.000	197.000	194.000	191.000
15.250	188.000	185.000	182.000	180.000	177.000
15.500	174.000	171.000	168.000	166.000	163.000
15.750	160.000	157.000	154.000	152.000	149.000
16.000	146.000	143.000	141.000	138.000	136.000
16.250	134.000	132.000	130.000	128.000	126.000
16.500	125.000	123.000	122.000	120.000	119.000
16.750	118.000	116.000	115.000	114.000	112.000
17.000	111.000	110.000	109.000	107.000	106.000
17.250	105.000	104.000	102.000	101.000	100.000
17.500	99.000	98.000	96.000	95.000	94.000
17.750	93.000	91.000	90.000	89.000	88.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume — Return Event: 10 years
Label: IB-1C — Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
18.000	87.000	85.000	84.000	83.000	82.000
18.250	81.000	81.000	80.000	79.000	79.000
18.500	78.000	77.000	77.000	76.000	76.000
18.750	76.000	75.000	75.000	74.000	74.000
19.000	73.000	73.000	73.000	72.000	72.000
19.250	72.000	71.000	71.000	70.000	70.000
19.500	70.000	69.000	69.000	69.000	68.000
19.750	68.000	68.000	67.000	67.000	66.000
20.000	66.000	66.000	65.000	65.000	65.000
20.250	64.000	64.000	64.000	63.000	63.000
20.500	63.000	63.000	62.000	62.000	62.000
20.750	61.000	61.000	61.000	61.000	60.000
21.000	60.000	60.000	59.000	59.000	59.000
21.250	59.000	58.000	58.000	58.000	58.000
21.500	57.000	57.000	57.000	56.000	56.000
21.750	56.000	56.000	55.000	55.000	55.000
22.000	55.000	54.000	54.000	54.000	53.000
22.250	53.000	53.000	53.000	52.000	52.000
22.500	52.000	51.000	51.000	51.000	51.000
22.750	50.000	50.000	50.000	50.000	49.000
23.000	49.000	49.000	48.000	48.000	48.000
23.250	48.000	47.000	47.000	47.000	47.000
23.500	46.000	46.000	46.000	45.000	45.000
23.750	45.000	45.000	44.000	44.000	44.000
24.000	43.000	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume — Return Event: 25 years
Label: IB-1C — Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 25 years
Label: IB-1C | Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	1.000	1.000	1.000	2.000
3.750	2.000	3.000	3.000	3.000	4.000
4.000	4.000	5.000	5.000	6.000	7.000
4.250	7.000	8.000	8.000	9.000	9.000
4.500	10.000	11.000	11.000	12.000	12.000
4.750	13.000	14.000	14.000	15.000	15.000
5.000	16.000	17.000	17.000	18.000	19.000
5.250	19.000	20.000	21.000	21.000	22.000
5.500	22.000	23.000	24.000	24.000	25.000
5.750	26.000	26.000	27.000	28.000	28.000
6.000	29.000	30.000	30.000	31.000	32.000
6.250	33.000	34.000	35.000	36.000	37.000
6.500	38.000	39.000	40.000	41.000	42.000
6.750	43.000	44.000	46.000	47.000	48.000
7.000	49.000	51.000	52.000	53.000	54.000
7.250	56.000	57.000	59.000	60.000	61.000
7.500	63.000	64.000	66.000	67.000	69.000
7.750	70.000	72.000	73.000	75.000	76.000
8.000	78.000	79.000	81.000	83.000	85.000
8.250	87.000	89.000	92.000	94.000	97.000
8.500	99.000	102.000	105.000	108.000	110.000
8.750	113.000	116.000	119.000	123.000	126.000
9.000	129.000	132.000	136.000	139.000	142.000
9.250	146.000	149.000	152.000	156.000	159.000
9.500	163.000	167.000	170.000	174.000	178.000
9.750	181.000	185.000	189.000	192.000	196.000
10.000	200.000	204.000	208.000	213.000	217.000
10.250	223.000	228.000	234.000	240.000	246.000
10.500	253.000	259.000	266.000	273.000	280.000
10.750	287.000	294.000	301.000	309.000	316.000
11.000	324.000	332.000	341.000	352.000	366.000
11.250	381.000	398.000	417.000	438.000	459.000
11.500	482.000	512.000	557.000	624.000	720.000
11.750	843.000	990.000	1,159.000	1,349.000	1,611.000
12.000	1,949.000	2,268.000	2,496.000	2,578.000	2,477.000
12.250	2,296.000	2,129.000	1,987.000	1,863.000	1,751.000
12.500	1,645.000	1,541.000	1,431.000	1,315.000	1,209.000
12.750	1,116.000	1,034.000	960.000	894.000	835.000
13.000	780.000	730.000	686.000	646.000	611.000
13.250	581.000	555.000	532.000	511.000	492.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 25 years
Label: IB-1C | Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
13.500	476.000	460.000	447.000	434.000	422.000
13.750	411.000	400.000	390.000	380.000	371.000
14.000	362.000	354.000	345.000	338.000	331.000
14.250	324.000	318.000	313.000	308.000	303.000
14.500	298.000	293.000	289.000	285.000	281.000
14.750	277.000	273.000	269.000	265.000	261.000
15.000	258.000	254.000	250.000	246.000	243.000
15.250	239.000	236.000	232.000	228.000	225.000
15.500	221.000	218.000	214.000	210.000	207.000
15.750	203.000	200.000	196.000	193.000	189.000
16.000	185.000	182.000	179.000	176.000	173.000
16.250	170.000	167.000	165.000	163.000	161.000
16.500	159.000	157.000	155.000	153.000	151.000
16.750	149.000	148.000	146.000	144.000	143.000
17.000	141.000	139.000	138.000	136.000	135.000
17.250	133.000	131.000	130.000	128.000	127.000
17.500	125.000	124.000	122.000	121.000	119.000
17.750	117.000	116.000	114.000	113.000	111.000
18.000	110.000	108.000	107.000	105.000	104.000
18.250	103.000	102.000	101.000	100.000	100.000
18.500	99.000	98.000	98.000	97.000	96.000
18.750	96.000	95.000	95.000	94.000	94.000
19.000	93.000	93.000	92.000	92.000	91.000
19.250	91.000	90.000	90.000	89.000	89.000
19.500	88.000	88.000	87.000	87.000	87.000
19.750	86.000	86.000	85.000	85.000	84.000
20.000	84.000	83.000	83.000	82.000	82.000
20.250	82.000	81.000	81.000	80.000	80.000
20.500	80.000	79.000	79.000	78.000	78.000
20.750	78.000	77.000	77.000	77.000	76.000
21.000	76.000	76.000	75.000	75.000	75.000
21.250	74.000	74.000	74.000	73.000	73.000
21.500	72.000	72.000	72.000	71.000	71.000
21.750	71.000	70.000	70.000	70.000	69.000
22.000	69.000	69.000	68.000	68.000	68.000
22.250	67.000	67.000	67.000	66.000	66.000
22.500	66.000	65.000	65.000	65.000	64.000
22.750	64.000	63.000	63.000	63.000	62.000
23.000	62.000	62.000	61.000	61.000	61.000
23.250	60.000	60.000	60.000	59.000	59.000
23.500	59.000	58.000	58.000	58.000	57.000
23.750	57.000	57.000	56.000	56.000	55.000
24.000	55.000	(N/A)	(N/A)	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 100 years
Label: IB-1C | Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	1.000	1.000
2.750	2.000	2.000	3.000	4.000	4.000
3.000	5.000	6.000	6.000	7.000	8.000
3.250	9.000	10.000	11.000	11.000	12.000
3.500	13.000	14.000	15.000	16.000	17.000
3.750	18.000	19.000	20.000	20.000	21.000
4.000	22.000	23.000	24.000	25.000	26.000
4.250	27.000	28.000	29.000	30.000	31.000
4.500	32.000	33.000	34.000	35.000	36.000
4.750	37.000	38.000	39.000	40.000	41.000
5.000	42.000	43.000	44.000	45.000	46.000
5.250	47.000	48.000	49.000	50.000	51.000
5.500	52.000	53.000	54.000	55.000	56.000
5.750	57.000	58.000	59.000	60.000	61.000
6.000	62.000	63.000	64.000	65.000	67.000
6.250	68.000	70.000	71.000	73.000	74.000
6.500	76.000	78.000	79.000	81.000	83.000
6.750	85.000	87.000	89.000	91.000	93.000
7.000	95.000	97.000	99.000	101.000	103.000
7.250	105.000	107.000	110.000	112.000	114.000
7.500	116.000	118.000	121.000	123.000	125.000
7.750	127.000	130.000	132.000	134.000	137.000
8.000	139.000	141.000	144.000	147.000	150.000
8.250	153.000	157.000	160.000	164.000	168.000
8.500	172.000	176.000	181.000	185.000	190.000
8.750	194.000	199.000	203.000	208.000	213.000
9.000	218.000	223.000	228.000	233.000	238.000
9.250	243.000	248.000	253.000	258.000	263.000
9.500	269.000	274.000	279.000	285.000	290.000
9.750	295.000	301.000	306.000	312.000	317.000
10.000	323.000	328.000	334.000	341.000	348.000
10.250	355.000	363.000	372.000	381.000	390.000
10.500	399.000	409.000	419.000	429.000	439.000
10.750	449.000	460.000	471.000	481.000	492.000
11.000	503.000	515.000	528.000	545.000	564.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume Return Event: 100 years
Label: IB-1C Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
11.250	587.000	613.000	641.000	671.000	703.000
11.500	737.000	782.000	849.000	950.000	1,094.000
11.750	1,279.000	1,498.000	1,720.000	1,921.000	2,174.000
12.000	2,560.000	2,961.000	3,252.000	3,341.000	3,169.000
12.250	2,885.000	2,630.000	2,414.000	2,228.000	2,061.000
12.500	1,906.000	1,768.000	1,651.000	1,552.000	1,463.000
12.750	1,377.000	1,296.000	1,222.000	1,154.000	1,089.000
13.000	1,029.000	973.000	921.000	874.000	833.000
13.250	797.000	765.000	737.000	711.000	688.000
13.500	667.000	648.000	630.000	613.000	597.000
13.750	582.000	568.000	554.000	541.000	528.000
14.000	516.000	504.000	493.000	482.000	472.000
14.250	463.000	455.000	447.000	439.000	432.000
14.500	426.000	419.000	413.000	407.000	401.000
14.750	395.000	390.000	384.000	379.000	373.000
15.000	368.000	362.000	357.000	352.000	347.000
15.250	341.000	336.000	331.000	326.000	321.000
15.500	316.000	310.000	305.000	300.000	295.000
15.750	290.000	285.000	280.000	275.000	269.000
16.000	264.000	259.000	255.000	250.000	246.000
16.250	242.000	238.000	235.000	232.000	229.000
16.500	226.000	223.000	220.000	218.000	215.000
16.750	213.000	210.000	208.000	205.000	203.000
17.000	201.000	198.000	196.000	194.000	192.000
17.250	189.000	187.000	185.000	183.000	180.000
17.500	178.000	176.000	174.000	172.000	169.000
17.750	167.000	165.000	163.000	161.000	158.000
18.000	156.000	154.000	152.000	150.000	148.000
18.250	147.000	145.000	144.000	143.000	142.000
18.500	141.000	140.000	139.000	138.000	137.000
18.750	136.000	135.000	135.000	134.000	133.000
19.000	132.000	132.000	131.000	130.000	130.000
19.250	129.000	128.000	128.000	127.000	126.000
19.500	126.000	125.000	124.000	124.000	123.000
19.750	122.000	122.000	121.000	120.000	120.000
20.000	119.000	118.000	118.000	117.000	116.000
20.250	116.000	115.000	115.000	114.000	114.000
20.500	113.000	113.000	112.000	112.000	111.000
20.750	110.000	110.000	109.000	109.000	108.000
21.000	108.000	108.000	107.000	106.000	106.000
21.250	105.000	105.000	104.000	104.000	104.000
21.500	103.000	102.000	102.000	101.000	101.000
21.750	100.000	100.000	100.000	99.000	99.000
22.000	98.000	98.000	97.000	97.000	96.000
22.250	96.000	95.000	94.000	94.000	94.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume	Return Event: 100 years
Label: IB-1C	Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
22.500	93.000	93.000	92.000	92.000	91.000
22.750	91.000	90.000	90.000	89.000	89.000
23.000	88.000	88.000	87.000	87.000	86.000
23.250	86.000	85.000	85.000	84.000	84.000
23.500	83.000	83.000	82.000	82.000	81.000
23.750	81.000	80.000	80.000	79.000	79.000
24.000	78.000	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume	Return Event: 1 years
Label: IB-1D	Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.250	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
5.750	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.250	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume	Return Event: 1 years
Label: IB-1D	Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
6.750	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.250	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
7.750	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.250	0.000	0.000	0.000	0.000	0.000
8.500	0.000	1.000	2.000	3.000	5.000
8.750	7.000	10.000	13.000	16.000	19.000
9.000	23.000	28.000	33.000	38.000	43.000
9.250	49.000	55.000	62.000	69.000	76.000
9.500	84.000	92.000	100.000	109.000	118.000
9.750	128.000	138.000	148.000	158.000	169.000
10.000	181.000	192.000	205.000	217.000	231.000
10.250	245.000	260.000	275.000	291.000	308.000
10.500	326.000	344.000	363.000	383.000	404.000
10.750	425.000	447.000	470.000	494.000	518.000
11.000	544.000	570.000	599.000	630.000	665.000
11.250	703.000	745.000	791.000	841.000	895.000
11.500	953.000	1,022.000	1,113.000	1,237.000	1,407.000
11.750	1,627.000	1,903.000	2,237.000	2,636.000	3,190.000
12.000	4,023.000	5,125.000	6,372.000	7,507.000	8,393.000
12.250	9,060.000	9,621.000	10,085.000	10,464.000	10,765.000
12.500	10,984.000	11,134.000	11,230.000	11,293.000	11,341.000
12.750	11,379.000	11,408.000	11,428.000	11,439.000	11,441.000
13.000	11,434.000	11,420.000	11,399.000	11,373.000	11,345.000
13.250	11,315.000	11,282.000	11,247.000	11,210.000	11,170.000
13.500	11,129.000	11,085.000	11,038.000	10,990.000	10,939.000
13.750	10,886.000	10,830.000	10,773.000	10,712.000	10,650.000
14.000	10,585.000	10,518.000	10,450.000	10,380.000	10,309.000
14.250	10,237.000	10,163.000	10,089.000	10,014.000	9,938.000
14.500	9,861.000	9,782.000	9,698.000	9,614.000	9,528.000
14.750	9,442.000	9,354.000	9,266.000	9,176.000	9,085.000
15.000	8,993.000	8,901.000	8,807.000	8,712.000	8,616.000
15.250	8,519.000	8,421.000	8,322.000	8,222.000	8,121.000
15.500	8,019.000	7,916.000	7,812.000	7,707.000	7,601.000
15.750	7,494.000	7,386.000	7,277.000	7,167.000	7,056.000
16.000	6,945.000	6,832.000	6,719.000	6,605.000	6,491.000
16.250	6,376.000	6,259.000	6,136.000	6,013.000	5,890.000
16.500	5,767.000	5,643.000	5,519.000	5,395.000	5,271.000
16.750	5,146.000	5,022.000	4,896.000	4,771.000	4,646.000
17.000	4,520.000	4,395.000	4,269.000	4,142.000	4,016.000
17.250	3,889.000	3,763.000	3,636.000	3,509.000	3,381.000
17.500	3,254.000	3,126.000	2,996.000	2,866.000	2,743.000
17.750	2,626.000	2,515.000	2,410.000	2,311.000	2,216.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume — Return Event: 1 years
Label: IB-1D — Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
18.000	2,127.000	2,042.000	1,962.000	1,886.000	1,814.000
18.250	1,746.000	1,682.000	1,621.000	1,563.000	1,509.000
18.500	1,457.000	1,408.000	1,362.000	1,318.000	1,277.000
18.750	1,238.000	1,200.000	1,165.000	1,132.000	1,100.000
19.000	1,070.000	1,041.000	1,014.000	988.000	963.000
19.250	940.000	918.000	897.000	877.000	858.000
19.500	839.000	822.000	806.000	790.000	775.000
19.750	760.000	747.000	734.000	721.000	709.000
20.000	697.000	687.000	676.000	666.000	656.000
20.250	647.000	638.000	630.000	622.000	614.000
20.500	607.000	599.000	593.000	586.000	580.000
20.750	573.000	567.000	562.000	556.000	551.000
21.000	546.000	541.000	536.000	532.000	527.000
21.250	523.000	518.000	514.000	510.000	506.000
21.500	503.000	499.000	495.000	492.000	488.000
21.750	485.000	482.000	478.000	475.000	472.000
22.000	469.000	466.000	463.000	460.000	457.000
22.250	454.000	452.000	449.000	446.000	443.000
22.500	441.000	438.000	436.000	433.000	431.000
22.750	428.000	426.000	423.000	421.000	418.000
23.000	416.000	413.000	411.000	408.000	406.000
23.250	404.000	401.000	399.000	397.000	395.000
23.500	392.000	390.000	388.000	385.000	383.000
23.750	381.000	379.000	377.000	374.000	372.000
24.000	370.000	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume — Return Event: 2 years
Label: IB-1D — Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 2 years
Label: IB-1D | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.250	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
5.750	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.250	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
6.750	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.250	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
7.750	1.000	2.000	3.000	5.000	6.000
8.000	9.000	11.000	14.000	17.000	20.000
8.250	24.000	28.000	32.000	37.000	42.000
8.500	47.000	53.000	59.000	65.000	72.000
8.750	80.000	87.000	95.000	103.000	112.000
9.000	121.000	131.000	141.000	151.000	162.000
9.250	173.000	184.000	196.000	209.000	221.000
9.500	235.000	248.000	262.000	277.000	291.000
9.750	307.000	322.000	338.000	355.000	372.000
10.000	389.000	407.000	425.000	444.000	465.000
10.250	486.000	508.000	531.000	555.000	580.000
10.500	606.000	633.000	661.000	689.000	719.000
10.750	750.000	782.000	815.000	849.000	884.000
11.000	920.000	958.000	998.000	1,043.000	1,093.000
11.250	1,147.000	1,207.000	1,273.000	1,344.000	1,421.000
11.500	1,503.000	1,602.000	1,732.000	1,910.000	2,153.000
11.750	2,469.000	2,862.000	3,326.000	3,881.000	4,683.000
12.000	5,930.000	7,475.000	9,186.000	10,792.000	12,031.000
12.250	12,925.000	13,633.000	14,167.000	14,552.000	14,801.000
12.500	14,924.000	14,949.000	14,906.000	14,825.000	14,734.000
12.750	14,640.000	14,544.000	14,446.000	14,348.000	14,248.000
13.000	14,147.000	14,046.000	13,948.000	13,855.000	13,767.000
13.250	13,685.000	13,608.000	13,536.000	13,465.000	13,395.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 2 years
Label: IB-1D | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
13.500	13,325.000	13,255.000	13,186.000	13,117.000	13,049.000
13.750	12,980.000	12,912.000	12,844.000	12,777.000	12,709.000
14.000	12,642.000	12,575.000	12,509.000	12,444.000	12,381.000
14.250	12,319.000	12,259.000	12,201.000	12,143.000	12,087.000
14.500	12,033.000	11,978.000	11,922.000	11,865.000	11,806.000
14.750	11,745.000	11,683.000	11,620.000	11,555.000	11,489.000
15.000	11,421.000	11,352.000	11,281.000	11,209.000	11,136.000
15.250	11,061.000	10,984.000	10,906.000	10,827.000	10,747.000
15.500	10,664.000	10,581.000	10,496.000	10,410.000	10,322.000
15.750	10,233.000	10,142.000	10,050.000	9,957.000	9,862.000
16.000	9,765.000	9,663.000	9,559.000	9,455.000	9,350.000
16.250	9,245.000	9,139.000	9,033.000	8,926.000	8,819.000
16.500	8,712.000	8,603.000	8,495.000	8,386.000	8,276.000
16.750	8,166.000	8,056.000	7,945.000	7,834.000	7,722.000
17.000	7,610.000	7,497.000	7,384.000	7,271.000	7,157.000
17.250	7,042.000	6,927.000	6,812.000	6,697.000	6,581.000
17.500	6,464.000	6,348.000	6,225.000	6,099.000	5,973.000
17.750	5,847.000	5,720.000	5,593.000	5,466.000	5,338.000
18.000	5,209.000	5,081.000	4,952.000	4,823.000	4,695.000
18.250	4,566.000	4,438.000	4,309.000	4,181.000	4,053.000
18.500	3,926.000	3,798.000	3,670.000	3,543.000	3,416.000
18.750	3,289.000	3,162.000	3,035.000	2,903.000	2,780.000
19.000	2,663.000	2,553.000	2,448.000	2,350.000	2,257.000
19.250	2,169.000	2,086.000	2,007.000	1,933.000	1,863.000
19.500	1,796.000	1,733.000	1,674.000	1,617.000	1,564.000
19.750	1,513.000	1,465.000	1,420.000	1,376.000	1,335.000
20.000	1,297.000	1,260.000	1,225.000	1,191.000	1,160.000
20.250	1,130.000	1,102.000	1,075.000	1,049.000	1,025.000
20.500	1,002.000	980.000	959.000	939.000	920.000
20.750	902.000	885.000	869.000	853.000	838.000
21.000	824.000	811.000	798.000	785.000	773.000
21.250	762.000	751.000	741.000	731.000	721.000
21.500	712.000	703.000	695.000	687.000	679.000
21.750	671.000	664.000	657.000	650.000	643.000
22.000	637.000	631.000	625.000	619.000	614.000
22.250	608.000	603.000	597.000	592.000	588.000
22.500	583.000	578.000	574.000	569.000	565.000
22.750	561.000	556.000	552.000	548.000	544.000
23.000	541.000	537.000	533.000	529.000	525.000
23.250	522.000	518.000	515.000	511.000	508.000
23.500	505.000	501.000	498.000	495.000	492.000
23.750	488.000	485.000	482.000	479.000	476.000
24.000	473.000	(N/A)	(N/A)	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume — Return Event: 10 years
Label: IB-1D — Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.250	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
5.750	0.000	0.000	0.000	0.000	0.000
6.000	0.000	1.000	2.000	3.000	4.000
6.250	6.000	8.000	10.000	13.000	16.000
6.500	19.000	23.000	26.000	30.000	35.000
6.750	39.000	44.000	49.000	55.000	60.000
7.000	66.000	72.000	79.000	85.000	92.000
7.250	100.000	107.000	115.000	123.000	131.000
7.500	140.000	148.000	158.000	167.000	176.000
7.750	186.000	196.000	206.000	217.000	228.000
8.000	239.000	250.000	262.000	274.000	287.000
8.250	300.000	314.000	328.000	343.000	359.000
8.500	375.000	392.000	409.000	427.000	446.000
8.750	465.000	485.000	506.000	527.000	549.000
9.000	571.000	594.000	618.000	642.000	667.000
9.250	692.000	718.000	745.000	773.000	801.000
9.500	829.000	859.000	889.000	919.000	950.000
9.750	982.000	1,015.000	1,048.000	1,081.000	1,115.000
10.000	1,150.000	1,186.000	1,223.000	1,261.000	1,301.000
10.250	1,343.000	1,387.000	1,433.000	1,480.000	1,529.000
10.500	1,580.000	1,633.000	1,688.000	1,744.000	1,802.000
10.750	1,862.000	1,923.000	1,987.000	2,051.000	2,118.000
11.000	2,186.000	2,257.000	2,334.000	2,419.000	2,514.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume — Return Event: 10 years
Label: IB-1D — Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
11.250	2,619.000	2,735.000	2,861.000	2,997.000	3,140.000
11.500	3,296.000	3,492.000	3,759.000	4,131.000	4,647.000
11.750	5,325.000	6,182.000	7,175.000	8,362.000	9,993.000
12.000	12,317.000	15,037.000	17,751.000	19,914.000	21,218.000
12.250	21,836.000	22,115.000	22,177.000	22,066.000	21,809.000
12.500	21,412.000	20,917.000	20,381.000	19,851.000	19,363.000
12.750	18,922.000	18,523.000	18,160.000	17,830.000	17,526.000
13.000	17,230.000	16,945.000	16,675.000	16,424.000	16,191.000
13.250	15,977.000	15,780.000	15,597.000	15,428.000	15,271.000
13.500	15,124.000	14,988.000	14,860.000	14,740.000	14,627.000
13.750	14,521.000	14,420.000	14,324.000	14,233.000	14,147.000
14.000	14,064.000	13,985.000	13,909.000	13,839.000	13,772.000
14.250	13,710.000	13,652.000	13,597.000	13,546.000	13,496.000
14.500	13,446.000	13,396.000	13,346.000	13,296.000	13,245.000
14.750	13,195.000	13,145.000	13,095.000	13,044.000	12,994.000
15.000	12,943.000	12,893.000	12,843.000	12,792.000	12,742.000
15.250	12,691.000	12,641.000	12,590.000	12,539.000	12,489.000
15.500	12,438.000	12,387.000	12,337.000	12,286.000	12,235.000
15.750	12,185.000	12,134.000	12,083.000	12,032.000	11,981.000
16.000	11,927.000	11,871.000	11,812.000	11,753.000	11,692.000
16.250	11,629.000	11,566.000	11,502.000	11,437.000	11,371.000
16.500	11,304.000	11,236.000	11,166.000	11,096.000	11,025.000
16.750	10,953.000	10,880.000	10,805.000	10,730.000	10,654.000
17.000	10,577.000	10,498.000	10,419.000	10,339.000	10,258.000
17.250	10,176.000	10,093.000	10,009.000	9,924.000	9,838.000
17.500	9,749.000	9,657.000	9,563.000	9,469.000	9,373.000
17.750	9,277.000	9,180.000	9,082.000	8,983.000	8,883.000
18.000	8,782.000	8,680.000	8,577.000	8,474.000	8,371.000
18.250	8,268.000	8,165.000	8,061.000	7,958.000	7,854.000
18.500	7,750.000	7,646.000	7,542.000	7,438.000	7,334.000
18.750	7,230.000	7,125.000	7,021.000	6,916.000	6,811.000
19.000	6,706.000	6,601.000	6,496.000	6,391.000	6,284.000
19.250	6,171.000	6,058.000	5,945.000	5,833.000	5,720.000
19.500	5,607.000	5,493.000	5,380.000	5,267.000	5,154.000
19.750	5,040.000	4,927.000	4,813.000	4,699.000	4,586.000
20.000	4,472.000	4,358.000	4,244.000	4,130.000	4,017.000
20.250	3,903.000	3,789.000	3,676.000	3,562.000	3,448.000
20.500	3,335.000	3,221.000	3,107.000	2,992.000	2,877.000
20.750	2,768.000	2,665.000	2,568.000	2,476.000	2,389.000
21.000	2,307.000	2,230.000	2,156.000	2,087.000	2,021.000
21.250	1,958.000	1,899.000	1,843.000	1,790.000	1,739.000
21.500	1,691.000	1,646.000	1,603.000	1,562.000	1,523.000
21.750	1,486.000	1,451.000	1,418.000	1,386.000	1,356.000
22.000	1,327.000	1,300.000	1,274.000	1,249.000	1,225.000
22.250	1,202.000	1,181.000	1,160.000	1,140.000	1,121.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 10 years
Label: IB-1D | Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
22.500	1,103.000	1,086.000	1,069.000	1,053.000	1,038.000
22.750	1,023.000	1,009.000	996.000	982.000	970.000
23.000	958.000	946.000	935.000	924.000	913.000
23.250	903.000	893.000	884.000	874.000	866.000
23.500	857.000	848.000	840.000	832.000	824.000
23.750	816.000	809.000	802.000	794.000	787.000
24.000	781.000	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume | Return Event: 25 years
Label: IB-1D | Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	1.000	2.000	3.000
5.250	5.000	7.000	9.000	12.000	15.000
5.500	18.000	22.000	25.000	30.000	34.000
5.750	38.000	43.000	48.000	53.000	59.000
6.000	64.000	70.000	76.000	82.000	89.000
6.250	95.000	102.000	110.000	117.000	125.000
6.500	134.000	142.000	151.000	160.000	169.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 25 years
Label: IB-1D | Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
6.750	179.000	189.000	199.000	210.000	221.000
7.000	232.000	243.000	255.000	267.000	280.000
7.250	292.000	305.000	319.000	332.000	346.000
7.500	360.000	375.000	390.000	405.000	420.000
7.750	436.000	452.000	468.000	485.000	502.000
8.000	519.000	536.000	554.000	573.000	593.000
8.250	613.000	635.000	657.000	680.000	704.000
8.500	729.000	755.000	782.000	809.000	837.000
8.750	867.000	897.000	928.000	959.000	992.000
9.000	1,025.000	1,060.000	1,095.000	1,131.000	1,168.000
9.250	1,205.000	1,244.000	1,283.000	1,323.000	1,364.000
9.500	1,406.000	1,448.000	1,492.000	1,536.000	1,580.000
9.750	1,626.000	1,673.000	1,720.000	1,768.000	1,816.000
10.000	1,866.000	1,916.000	1,968.000	2,023.000	2,079.000
10.250	2,139.000	2,201.000	2,265.000	2,333.000	2,402.000
10.500	2,474.000	2,549.000	2,626.000	2,705.000	2,787.000
10.750	2,870.000	2,957.000	3,045.000	3,132.000	3,226.000
11.000	3,326.000	3,437.000	3,560.000	3,700.000	3,860.000
11.250	4,041.000	4,246.000	4,473.000	4,725.000	5,002.000
11.500	5,304.000	5,665.000	6,131.000	6,723.000	7,501.000
11.750	8,504.000	9,753.000	11,201.000	12,879.000	14,969.000
12.000	17,817.000	20,966.000	23,894.000	26,157.000	27,238.000
12.250	27,529.000	27,461.000	27,162.000	26,682.000	26,048.000
12.500	25,248.000	24,387.000	23,522.000	22,704.000	21,976.000
12.750	21,314.000	20,706.000	20,158.000	19,662.000	19,211.000
13.000	18,798.000	18,421.000	18,079.000	17,772.000	17,500.000
13.250	17,242.000	17,002.000	16,780.000	16,574.000	16,382.000
13.500	16,203.000	16,035.000	15,878.000	15,730.000	15,590.000
13.750	15,458.000	15,332.000	15,213.000	15,099.000	14,990.000
14.000	14,885.000	14,786.000	14,691.000	14,601.000	14,517.000
14.250	14,438.000	14,364.000	14,294.000	14,229.000	14,166.000
14.500	14,107.000	14,050.000	13,997.000	13,945.000	13,896.000
14.750	13,848.000	13,802.000	13,758.000	13,715.000	13,673.000
15.000	13,632.000	13,593.000	13,554.000	13,516.000	13,477.000
15.250	13,436.000	13,394.000	13,351.000	13,307.000	13,262.000
15.500	13,215.000	13,168.000	13,120.000	13,070.000	13,020.000
15.750	12,970.000	12,918.000	12,866.000	12,813.000	12,759.000
16.000	12,705.000	12,650.000	12,596.000	12,543.000	12,490.000
16.250	12,438.000	12,388.000	12,339.000	12,290.000	12,242.000
16.500	12,196.000	12,150.000	12,105.000	12,061.000	12,017.000
16.750	11,973.000	11,928.000	11,881.000	11,833.000	11,783.000
17.000	11,732.000	11,680.000	11,626.000	11,571.000	11,515.000
17.250	11,456.000	11,397.000	11,337.000	11,275.000	11,211.000
17.500	11,147.000	11,081.000	11,013.000	10,944.000	10,874.000
17.750	10,803.000	10,730.000	10,656.000	10,580.000	10,504.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 25 years
Label: IB-1D | Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
18.000	10,426.000	10,346.000	10,266.000	10,185.000	10,104.000
18.250	10,023.000	9,941.000	9,859.000	9,776.000	9,690.000
18.500	9,602.000	9,515.000	9,427.000	9,339.000	9,251.000
18.750	9,162.000	9,073.000	8,984.000	8,894.000	8,804.000
19.000	8,714.000	8,624.000	8,533.000	8,442.000	8,351.000
19.250	8,260.000	8,168.000	8,076.000	7,984.000	7,891.000
19.500	7,799.000	7,705.000	7,612.000	7,519.000	7,425.000
19.750	7,331.000	7,236.000	7,142.000	7,047.000	6,952.000
20.000	6,857.000	6,761.000	6,665.000	6,569.000	6,473.000
20.250	6,377.000	6,279.000	6,176.000	6,073.000	5,970.000
20.500	5,866.000	5,763.000	5,660.000	5,556.000	5,452.000
20.750	5,348.000	5,244.000	5,140.000	5,035.000	4,931.000
21.000	4,827.000	4,723.000	4,618.000	4,513.000	4,408.000
21.250	4,303.000	4,198.000	4,093.000	3,988.000	3,883.000
21.500	3,778.000	3,672.000	3,567.000	3,461.000	3,355.000
21.750	3,250.000	3,144.000	3,038.000	2,928.000	2,825.000
22.000	2,726.000	2,634.000	2,546.000	2,462.000	2,384.000
22.250	2,309.000	2,238.000	2,171.000	2,107.000	2,047.000
22.500	1,990.000	1,935.000	1,884.000	1,835.000	1,789.000
22.750	1,745.000	1,702.000	1,662.000	1,624.000	1,588.000
23.000	1,553.000	1,520.000	1,489.000	1,459.000	1,430.000
23.250	1,403.000	1,377.000	1,352.000	1,328.000	1,305.000
23.500	1,283.000	1,262.000	1,242.000	1,223.000	1,204.000
23.750	1,186.000	1,169.000	1,153.000	1,136.000	1,121.000
24.000	1,106.000	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume | Return Event: 100 years
Label: IB-1D | Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 100 years
Label: IB-1D | Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	1.000	2.000
4.000	4.000	7.000	10.000	13.000	17.000
4.250	22.000	26.000	32.000	37.000	43.000
4.500	50.000	57.000	64.000	71.000	79.000
4.750	87.000	96.000	104.000	113.000	122.000
5.000	132.000	141.000	151.000	161.000	172.000
5.250	182.000	193.000	204.000	215.000	226.000
5.500	237.000	249.000	261.000	272.000	284.000
5.750	297.000	309.000	321.000	334.000	346.000
6.000	359.000	372.000	385.000	399.000	413.000
6.250	428.000	443.000	458.000	474.000	490.000
6.500	507.000	525.000	543.000	561.000	580.000
6.750	599.000	619.000	639.000	660.000	681.000
7.000	702.000	724.000	747.000	770.000	793.000
7.250	817.000	841.000	866.000	891.000	916.000
7.500	942.000	969.000	995.000	1,022.000	1,050.000
7.750	1,078.000	1,107.000	1,135.000	1,165.000	1,194.000
8.000	1,224.000	1,255.000	1,287.000	1,320.000	1,354.000
8.250	1,390.000	1,427.000	1,466.000	1,507.000	1,549.000
8.500	1,593.000	1,638.000	1,684.000	1,732.000	1,781.000
8.750	1,832.000	1,884.000	1,937.000	1,992.000	2,048.000
9.000	2,106.000	2,164.000	2,224.000	2,285.000	2,348.000
9.250	2,411.000	2,476.000	2,542.000	2,609.000	2,677.000
9.500	2,747.000	2,817.000	2,889.000	2,962.000	3,036.000
9.750	3,108.000	3,185.000	3,266.000	3,353.000	3,445.000
10.000	3,542.000	3,644.000	3,754.000	3,872.000	3,998.000
10.250	4,134.000	4,279.000	4,434.000	4,599.000	4,774.000
10.500	4,959.000	5,155.000	5,361.000	5,578.000	5,806.000
10.750	6,045.000	6,296.000	6,543.000	6,799.000	7,068.000
11.000	7,347.000	7,643.000	7,960.000	8,305.000	8,685.000
11.250	9,100.000	9,555.000	10,035.000	10,543.000	11,091.000
11.500	11,681.000	12,346.000	13,137.000	14,083.000	15,228.000
11.750	16,593.000	18,127.000	19,781.000	21,587.000	23,852.000
12.000	27,154.000	30,979.000	34,630.000	37,467.000	38,789.000
12.250	38,975.000	38,644.000	37,971.000	37,019.000	35,825.000
12.500	34,365.000	32,788.000	31,191.000	29,607.000	28,162.000
12.750	26,880.000	25,727.000	24,674.000	23,753.000	22,942.000
13.000	22,225.000	21,586.000	20,987.000	20,453.000	19,982.000
13.250	19,565.000	19,197.000	18,869.000	18,577.000	18,316.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 100 years
Label: IB-1D | Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
13.500	18,081.000	17,868.000	17,676.000	17,500.000	17,330.000
13.750	17,166.000	17,009.000	16,857.000	16,712.000	16,571.000
14.000	16,435.000	16,304.000	16,178.000	16,059.000	15,946.000
14.250	15,841.000	15,741.000	15,647.000	15,557.000	15,472.000
14.500	15,391.000	15,313.000	15,238.000	15,167.000	15,098.000
14.750	15,031.000	14,967.000	14,904.000	14,843.000	14,784.000
15.000	14,726.000	14,669.000	14,614.000	14,559.000	14,506.000
15.250	14,453.000	14,401.000	14,350.000	14,299.000	14,249.000
15.500	14,200.000	14,150.000	14,102.000	14,054.000	14,006.000
15.750	13,958.000	13,910.000	13,863.000	13,816.000	13,770.000
16.000	13,723.000	13,678.000	13,633.000	13,590.000	13,549.000
16.250	13,510.000	13,471.000	13,432.000	13,392.000	13,352.000
16.500	13,312.000	13,272.000	13,232.000	13,191.000	13,151.000
16.750	13,111.000	13,070.000	13,029.000	12,989.000	12,948.000
17.000	12,907.000	12,866.000	12,825.000	12,784.000	12,743.000
17.250	12,701.000	12,660.000	12,619.000	12,577.000	12,536.000
17.500	12,494.000	12,453.000	12,411.000	12,370.000	12,328.000
17.750	12,287.000	12,245.000	12,203.000	12,162.000	12,120.000
18.000	12,078.000	12,037.000	11,996.000	11,953.000	11,911.000
18.250	11,867.000	11,823.000	11,779.000	11,733.000	11,688.000
18.500	11,641.000	11,594.000	11,547.000	11,499.000	11,450.000
18.750	11,401.000	11,351.000	11,301.000	11,250.000	11,198.000
19.000	11,146.000	11,093.000	11,040.000	10,986.000	10,932.000
19.250	10,877.000	10,821.000	10,765.000	10,708.000	10,651.000
19.500	10,593.000	10,535.000	10,476.000	10,417.000	10,357.000
19.750	10,296.000	10,235.000	10,174.000	10,112.000	10,049.000
20.000	9,986.000	9,922.000	9,858.000	9,793.000	9,725.000
20.250	9,656.000	9,587.000	9,517.000	9,447.000	9,377.000
20.500	9,306.000	9,235.000	9,164.000	9,092.000	9,019.000
20.750	8,946.000	8,873.000	8,800.000	8,726.000	8,652.000
21.000	8,578.000	8,503.000	8,428.000	8,352.000	8,276.000
21.250	8,200.000	8,123.000	8,046.000	7,969.000	7,891.000
21.500	7,813.000	7,734.000	7,656.000	7,577.000	7,497.000
21.750	7,417.000	7,337.000	7,257.000	7,177.000	7,095.000
22.000	7,014.000	6,932.000	6,850.000	6,768.000	6,685.000
22.250	6,602.000	6,518.000	6,434.000	6,350.000	6,263.000
22.500	6,173.000	6,082.000	5,991.000	5,900.000	5,809.000
22.750	5,717.000	5,625.000	5,532.000	5,439.000	5,346.000
23.000	5,253.000	5,159.000	5,065.000	4,970.000	4,876.000
23.250	4,781.000	4,686.000	4,590.000	4,495.000	4,399.000
23.500	4,303.000	4,206.000	4,109.000	4,012.000	3,915.000
23.750	3,817.000	3,720.000	3,622.000	3,523.000	3,424.000
24.000	3,325.000	(N/A)	(N/A)	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 1 years
Label: IB-1E | Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.250	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
5.750	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.250	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
6.750	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.250	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
7.750	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.250	0.000	0.000	0.000	0.000	0.000
8.500	0.000	0.000	0.000	0.000	0.000
8.750	0.000	0.000	0.000	0.000	0.000
9.000	0.000	0.000	0.000	1.000	3.000
9.250	5.000	8.000	12.000	16.000	22.000
9.500	28.000	35.000	42.000	50.000	59.000
9.750	69.000	80.000	91.000	103.000	116.000
10.000	129.000	143.000	159.000	175.000	192.000
10.250	210.000	229.000	249.000	271.000	294.000
10.500	318.000	343.000	369.000	397.000	426.000
10.750	456.000	488.000	521.000	555.000	591.000
11.000	629.000	668.000	710.000	756.000	806.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume
Return Event: 1 years
Label: IB-1E
Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
11.250	862.000	922.000	988.000	1,060.000	1,138.000
11.500	1,221.000	1,320.000	1,447.000	1,617.000	1,847.000
11.750	2,144.000	2,518.000	2,975.000	3,524.000	4,295.000
12.000	5,426.000	6,922.000	8,628.000	10,213.000	11,459.000
12.250	12,418.000	13,238.000	13,937.000	14,513.000	14,985.000
12.500	15,346.000	15,613.000	15,809.000	15,959.000	16,090.000
12.750	16,207.000	16,311.000	16,405.000	16,485.000	16,554.000
13.000	16,611.000	16,657.000	16,694.000	16,725.000	16,753.000
13.250	16,777.000	16,798.000	16,816.000	16,831.000	16,843.000
13.500	16,852.000	16,858.000	16,860.000	16,860.000	16,856.000
13.750	16,849.000	16,838.000	16,825.000	16,808.000	16,787.000
14.000	16,764.000	16,737.000	16,708.000	16,677.000	16,644.000
14.250	16,609.000	16,573.000	16,536.000	16,497.000	16,456.000
14.500	16,414.000	16,370.000	16,325.000	16,278.000	16,230.000
14.750	16,180.000	16,128.000	16,075.000	16,021.000	15,964.000
15.000	15,907.000	15,847.000	15,786.000	15,724.000	15,660.000
15.250	15,594.000	15,527.000	15,458.000	15,388.000	15,316.000
15.500	15,242.000	15,167.000	15,090.000	15,012.000	14,932.000
15.750	14,850.000	14,767.000	14,682.000	14,596.000	14,508.000
16.000	14,419.000	14,328.000	14,236.000	14,143.000	14,050.000
16.250	13,955.000	13,861.000	13,765.000	13,668.000	13,566.000
16.500	13,463.000	13,360.000	13,257.000	13,152.000	13,047.000
16.750	12,942.000	12,836.000	12,729.000	12,621.000	12,514.000
17.000	12,405.000	12,296.000	12,186.000	12,075.000	11,964.000
17.250	11,853.000	11,741.000	11,628.000	11,514.000	11,400.000
17.500	11,286.000	11,171.000	11,055.000	10,938.000	10,822.000
17.750	10,704.000	10,586.000	10,467.000	10,348.000	10,228.000
18.000	10,108.000	9,987.000	9,866.000	9,745.000	9,623.000
18.250	9,502.000	9,380.000	9,259.000	9,137.000	9,016.000
18.500	8,894.000	8,768.000	8,638.000	8,509.000	8,380.000
18.750	8,251.000	8,122.000	7,993.000	7,863.000	7,734.000
19.000	7,605.000	7,476.000	7,346.000	7,217.000	7,088.000
19.250	6,959.000	6,830.000	6,700.000	6,571.000	6,442.000
19.500	6,313.000	6,183.000	6,054.000	5,925.000	5,796.000
19.750	5,667.000	5,537.000	5,408.000	5,279.000	5,150.000
20.000	5,021.000	4,892.000	4,762.000	4,633.000	4,504.000
20.250	4,376.000	4,245.000	4,112.000	3,985.000	3,863.000
20.500	3,745.000	3,633.000	3,525.000	3,421.000	3,321.000
20.750	3,224.000	3,132.000	3,044.000	2,958.000	2,876.000
21.000	2,798.000	2,722.000	2,649.000	2,579.000	2,512.000
21.250	2,447.000	2,385.000	2,325.000	2,267.000	2,211.000
21.500	2,158.000	2,106.000	2,057.000	2,009.000	1,963.000
21.750	1,918.000	1,876.000	1,835.000	1,795.000	1,757.000
22.000	1,720.000	1,684.000	1,650.000	1,616.000	1,585.000
22.250	1,554.000	1,524.000	1,495.000	1,467.000	1,440.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 1 years
Label: IB-1E | Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
22.500	1,414.000	1,389.000	1,365.000	1,342.000	1,319.000
22.750	1,297.000	1,276.000	1,255.000	1,235.000	1,216.000
23.000	1,197.000	1,179.000	1,161.000	1,144.000	1,128.000
23.250	1,112.000	1,096.000	1,081.000	1,066.000	1,052.000
23.500	1,038.000	1,025.000	1,012.000	999.000	987.000
23.750	975.000	963.000	951.000	940.000	929.000
24.000	918.000	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume | Return Event: 2 years
Label: IB-1E | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.250	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
5.750	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.250	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 2 years
Label: IB-1E | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
6.750	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.250	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
7.750	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.250	0.000	0.000	0.000	1.000	3.000
8.500	5.000	7.000	11.000	15.000	20.000
8.750	25.000	32.000	39.000	46.000	55.000
9.000	64.000	74.000	85.000	96.000	108.000
9.250	121.000	135.000	150.000	165.000	181.000
9.500	198.000	216.000	235.000	254.000	274.000
9.750	295.000	317.000	339.000	363.000	387.000
10.000	412.000	438.000	465.000	494.000	524.000
10.250	555.000	588.000	622.000	658.000	695.000
10.500	734.000	775.000	817.000	861.000	907.000
10.750	955.000	1,004.000	1,055.000	1,108.000	1,163.000
11.000	1,219.000	1,278.000	1,342.000	1,411.000	1,487.000
11.250	1,570.000	1,661.000	1,760.000	1,867.000	1,982.000
11.500	2,106.000	2,253.000	2,442.000	2,695.000	3,037.000
11.750	3,478.000	4,029.000	4,681.000	5,462.000	6,576.000
12.000	8,292.000	10,428.000	12,803.000	15,047.000	16,800.000
12.250	18,141.000	19,214.000	20,046.000	20,661.000	21,079.000
12.500	21,312.000	21,402.000	21,392.000	21,325.000	21,239.000
12.750	21,146.000	21,047.000	20,943.000	20,834.000	20,722.000
13.000	20,606.000	20,489.000	20,373.000	20,262.000	20,158.000
13.250	20,060.000	19,969.000	19,883.000	19,802.000	19,726.000
13.500	19,654.000	19,585.000	19,520.000	19,457.000	19,397.000
13.750	19,339.000	19,283.000	19,229.000	19,177.000	19,126.000
14.000	19,076.000	19,027.000	18,981.000	18,936.000	18,895.000
14.250	18,855.000	18,817.000	18,779.000	18,740.000	18,700.000
14.500	18,660.000	18,620.000	18,579.000	18,538.000	18,497.000
14.750	18,455.000	18,413.000	18,371.000	18,328.000	18,285.000
15.000	18,241.000	18,197.000	18,153.000	18,109.000	18,064.000
15.250	18,019.000	17,974.000	17,928.000	17,883.000	17,837.000
15.500	17,790.000	17,742.000	17,691.000	17,639.000	17,584.000
15.750	17,527.000	17,467.000	17,406.000	17,342.000	17,276.000
16.000	17,208.000	17,138.000	17,066.000	16,994.000	16,920.000
16.250	16,845.000	16,769.000	16,692.000	16,615.000	16,536.000
16.500	16,457.000	16,377.000	16,296.000	16,214.000	16,131.000
16.750	16,047.000	15,963.000	15,877.000	15,791.000	15,704.000
17.000	15,615.000	15,526.000	15,437.000	15,346.000	15,254.000
17.250	15,162.000	15,069.000	14,975.000	14,880.000	14,784.000
17.500	14,687.000	14,590.000	14,491.000	14,392.000	14,292.000
17.750	14,191.000	14,090.000	13,987.000	13,884.000	13,780.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 2 years
Label: IB-1E | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
18.000	13,673.000	13,562.000	13,450.000	13,337.000	13,225.000
18.250	13,112.000	12,999.000	12,886.000	12,773.000	12,660.000
18.500	12,546.000	12,433.000	12,319.000	12,205.000	12,091.000
18.750	11,977.000	11,863.000	11,749.000	11,634.000	11,520.000
19.000	11,405.000	11,290.000	11,175.000	11,060.000	10,945.000
19.250	10,830.000	10,714.000	10,599.000	10,483.000	10,367.000
19.500	10,251.000	10,135.000	10,019.000	9,903.000	9,786.000
19.750	9,670.000	9,553.000	9,437.000	9,320.000	9,203.000
20.000	9,086.000	8,969.000	8,851.000	8,727.000	8,602.000
20.250	8,478.000	8,353.000	8,229.000	8,104.000	7,979.000
20.500	7,854.000	7,730.000	7,605.000	7,480.000	7,355.000
20.750	7,230.000	7,106.000	6,981.000	6,856.000	6,731.000
21.000	6,606.000	6,482.000	6,357.000	6,232.000	6,107.000
21.250	5,982.000	5,857.000	5,732.000	5,608.000	5,483.000
21.500	5,358.000	5,233.000	5,108.000	4,983.000	4,858.000
21.750	4,733.000	4,608.000	4,483.000	4,358.000	4,231.000
22.000	4,103.000	3,980.000	3,862.000	3,749.000	3,640.000
22.250	3,535.000	3,434.000	3,337.000	3,244.000	3,154.000
22.500	3,068.000	2,985.000	2,906.000	2,829.000	2,756.000
22.750	2,685.000	2,616.000	2,550.000	2,487.000	2,426.000
23.000	2,367.000	2,311.000	2,256.000	2,203.000	2,152.000
23.250	2,104.000	2,056.000	2,011.000	1,967.000	1,925.000
23.500	1,884.000	1,845.000	1,807.000	1,770.000	1,734.000
23.750	1,700.000	1,667.000	1,635.000	1,604.000	1,574.000
24.000	1,545.000	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume | Return Event: 10 years
Label: IB-1E | Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume — Return Event: 10 years
Label: IB-1E — Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.250	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
5.750	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.250	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
6.750	2.000	3.000	6.000	9.000	12.000
7.000	16.000	21.000	26.000	31.000	38.000
7.250	45.000	52.000	60.000	68.000	78.000
7.500	87.000	97.000	108.000	119.000	131.000
7.750	144.000	156.000	170.000	184.000	198.000
8.000	213.000	229.000	245.000	262.000	280.000
8.250	299.000	318.000	339.000	361.000	383.000
8.500	407.000	431.000	457.000	483.000	511.000
8.750	539.000	569.000	600.000	632.000	665.000
9.000	699.000	734.000	770.000	808.000	846.000
9.250	886.000	927.000	970.000	1,013.000	1,058.000
9.500	1,103.000	1,150.000	1,199.000	1,248.000	1,299.000
9.750	1,351.000	1,404.000	1,458.000	1,514.000	1,571.000
10.000	1,629.000	1,688.000	1,750.000	1,814.000	1,880.000
10.250	1,950.000	2,022.000	2,098.000	2,176.000	2,258.000
10.500	2,342.000	2,430.000	2,520.000	2,614.000	2,711.000
10.750	2,810.000	2,913.000	3,019.000	3,128.000	3,240.000
11.000	3,355.000	3,476.000	3,605.000	3,745.000	3,900.000
11.250	4,070.000	4,257.000	4,452.000	4,668.000	4,907.000
11.500	5,172.000	5,492.000	5,909.000	6,471.000	7,229.000
11.750	8,213.000	9,411.000	10,829.000	12,532.000	14,813.000
12.000	18,113.000	21,937.000	25,682.000	28,660.000	30,363.000
12.250	31,079.000	31,350.000	31,330.000	31,084.000	30,650.000
12.500	30,061.000	29,341.000	28,579.000	27,838.000	27,170.000
12.750	26,576.000	26,049.000	25,579.000	25,156.000	24,773.000
13.000	24,423.000	24,093.000	23,776.000	23,478.000	23,204.000
13.250	22,951.000	22,717.000	22,502.000	22,302.000	22,116.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 10 years
Label: IB-1E | Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
13.500	21,942.000	21,780.000	21,628.000	21,485.000	21,350.000
13.750	21,222.000	21,100.000	20,985.000	20,874.000	20,768.000
14.000	20,666.000	20,568.000	20,475.000	20,388.000	20,306.000
14.250	20,229.000	20,156.000	20,088.000	20,024.000	19,963.000
14.500	19,905.000	19,850.000	19,797.000	19,747.000	19,698.000
14.750	19,651.000	19,606.000	19,562.000	19,520.000	19,478.000
15.000	19,437.000	19,398.000	19,359.000	19,321.000	19,283.000
15.250	19,246.000	19,210.000	19,174.000	19,138.000	19,103.000
15.500	19,068.000	19,033.000	18,999.000	18,965.000	18,931.000
15.750	18,897.000	18,863.000	18,829.000	18,794.000	18,756.000
16.000	18,716.000	18,674.000	18,632.000	18,589.000	18,546.000
16.250	18,503.000	18,461.000	18,419.000	18,376.000	18,334.000
16.500	18,293.000	18,251.000	18,209.000	18,168.000	18,127.000
16.750	18,086.000	18,045.000	18,004.000	17,963.000	17,923.000
17.000	17,882.000	17,842.000	17,801.000	17,760.000	17,717.000
17.250	17,673.000	17,627.000	17,579.000	17,530.000	17,479.000
17.500	17,427.000	17,373.000	17,317.000	17,260.000	17,201.000
17.750	17,141.000	17,079.000	17,016.000	16,951.000	16,885.000
18.000	16,816.000	16,747.000	16,676.000	16,605.000	16,533.000
18.250	16,461.000	16,388.000	16,315.000	16,241.000	16,168.000
18.500	16,093.000	16,019.000	15,944.000	15,868.000	15,792.000
18.750	15,716.000	15,639.000	15,562.000	15,485.000	15,407.000
19.000	15,328.000	15,250.000	15,171.000	15,091.000	15,011.000
19.250	14,931.000	14,850.000	14,769.000	14,688.000	14,606.000
19.500	14,524.000	14,441.000	14,358.000	14,275.000	14,191.000
19.750	14,106.000	14,022.000	13,937.000	13,852.000	13,766.000
20.000	13,679.000	13,588.000	13,497.000	13,405.000	13,313.000
20.250	13,221.000	13,129.000	13,036.000	12,943.000	12,849.000
20.500	12,756.000	12,662.000	12,568.000	12,474.000	12,379.000
20.750	12,284.000	12,189.000	12,093.000	11,998.000	11,902.000
21.000	11,806.000	11,710.000	11,613.000	11,516.000	11,419.000
21.250	11,322.000	11,225.000	11,127.000	11,029.000	10,931.000
21.500	10,832.000	10,733.000	10,634.000	10,535.000	10,435.000
21.750	10,336.000	10,236.000	10,136.000	10,036.000	9,935.000
22.000	9,834.000	9,733.000	9,632.000	9,531.000	9,429.000
22.250	9,327.000	9,225.000	9,122.000	9,020.000	8,917.000
22.500	8,812.000	8,702.000	8,592.000	8,483.000	8,372.000
22.750	8,262.000	8,151.000	8,040.000	7,929.000	7,818.000
23.000	7,707.000	7,595.000	7,483.000	7,371.000	7,258.000
23.250	7,146.000	7,033.000	6,920.000	6,807.000	6,694.000
23.500	6,581.000	6,467.000	6,353.000	6,239.000	6,125.000
23.750	6,011.000	5,896.000	5,782.000	5,667.000	5,551.000
24.000	5,436.000	(N/A)	(N/A)	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume — Return Event: 25 years
Label: IB-1E — Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.250	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
5.750	1.000	3.000	5.000	8.000	11.000
6.000	15.000	19.000	24.000	29.000	35.000
6.250	41.000	48.000	55.000	63.000	72.000
6.500	81.000	91.000	101.000	112.000	123.000
6.750	135.000	148.000	161.000	175.000	190.000
7.000	204.000	220.000	236.000	253.000	270.000
7.250	288.000	307.000	326.000	346.000	366.000
7.500	387.000	409.000	431.000	454.000	478.000
7.750	502.000	526.000	552.000	578.000	604.000
8.000	631.000	659.000	688.000	718.000	749.000
8.250	781.000	815.000	850.000	887.000	925.000
8.500	964.000	1,005.000	1,047.000	1,091.000	1,136.000
8.750	1,183.000	1,231.000	1,281.000	1,332.000	1,384.000
9.000	1,439.000	1,494.000	1,552.000	1,611.000	1,671.000
9.250	1,733.000	1,797.000	1,862.000	1,929.000	1,997.000
9.500	2,067.000	2,138.000	2,212.000	2,286.000	2,362.000
9.750	2,440.000	2,520.000	2,601.000	2,683.000	2,768.000
10.000	2,853.000	2,941.000	3,032.000	3,126.000	3,224.000
10.250	3,326.000	3,432.000	3,543.000	3,658.000	3,777.000
10.500	3,900.000	4,028.000	4,160.000	4,296.000	4,430.000
10.750	4,574.000	4,728.000	4,892.000	5,065.000	5,248.000
11.000	5,442.000	5,649.000	5,875.000	6,124.000	6,402.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume
Return Event: 25 years
Label: IB-1E
Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
11.250	6,711.000	7,052.000	7,426.000	7,835.000	8,280.000
11.500	8,761.000	9,299.000	9,969.000	10,843.000	11,997.000
11.750	13,470.000	15,213.000	17,311.000	19,660.000	22,566.000
12.000	26,419.000	30,685.000	34,572.000	37,453.000	38,725.000
12.250	38,878.000	38,555.000	37,945.000	37,121.000	36,121.000
12.500	34,928.000	33,677.000	32,450.000	31,314.000	30,324.000
12.750	29,437.000	28,643.000	27,938.000	27,310.000	26,745.000
13.000	26,234.000	25,773.000	25,360.000	24,994.000	24,673.000
13.250	24,393.000	24,137.000	23,896.000	23,671.000	23,461.000
13.500	23,263.000	23,077.000	22,901.000	22,734.000	22,575.000
13.750	22,424.000	22,279.000	22,141.000	22,007.000	21,878.000
14.000	21,754.000	21,634.000	21,519.000	21,410.000	21,308.000
14.250	21,213.000	21,122.000	21,037.000	20,956.000	20,879.000
14.500	20,806.000	20,736.000	20,669.000	20,605.000	20,543.000
14.750	20,482.000	20,424.000	20,368.000	20,313.000	20,259.000
15.000	20,207.000	20,155.000	20,105.000	20,055.000	20,006.000
15.250	19,958.000	19,910.000	19,863.000	19,817.000	19,771.000
15.500	19,725.000	19,679.000	19,634.000	19,590.000	19,545.000
15.750	19,501.000	19,457.000	19,413.000	19,369.000	19,325.000
16.000	19,282.000	19,239.000	19,197.000	19,157.000	19,119.000
16.250	19,082.000	19,048.000	19,015.000	18,984.000	18,954.000
16.500	18,925.000	18,898.000	18,871.000	18,845.000	18,819.000
16.750	18,792.000	18,765.000	18,736.000	18,706.000	18,676.000
17.000	18,645.000	18,613.000	18,581.000	18,548.000	18,514.000
17.250	18,479.000	18,444.000	18,408.000	18,372.000	18,334.000
17.500	18,297.000	18,259.000	18,221.000	18,182.000	18,143.000
17.750	18,103.000	18,063.000	18,022.000	17,981.000	17,940.000
18.000	17,898.000	17,856.000	17,815.000	17,773.000	17,731.000
18.250	17,689.000	17,645.000	17,601.000	17,557.000	17,512.000
18.500	17,466.000	17,420.000	17,373.000	17,325.000	17,277.000
18.750	17,228.000	17,179.000	17,129.000	17,079.000	17,027.000
19.000	16,976.000	16,924.000	16,871.000	16,817.000	16,763.000
19.250	16,709.000	16,653.000	16,597.000	16,541.000	16,484.000
19.500	16,427.000	16,368.000	16,310.000	16,250.000	16,191.000
19.750	16,130.000	16,069.000	16,007.000	15,945.000	15,882.000
20.000	15,819.000	15,755.000	15,691.000	15,626.000	15,561.000
20.250	15,495.000	15,429.000	15,363.000	15,296.000	15,228.000
20.500	15,161.000	15,093.000	15,024.000	14,955.000	14,886.000
20.750	14,816.000	14,745.000	14,675.000	14,604.000	14,532.000
21.000	14,461.000	14,389.000	14,317.000	14,244.000	14,170.000
21.250	14,097.000	14,022.000	13,948.000	13,873.000	13,798.000
21.500	13,722.000	13,643.000	13,562.000	13,482.000	13,400.000
21.750	13,318.000	13,236.000	13,154.000	13,071.000	12,988.000
22.000	12,904.000	12,820.000	12,736.000	12,651.000	12,566.000
22.250	12,480.000	12,394.000	12,307.000	12,220.000	12,133.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume — Return Event: 25 years
Label: IB-1E — Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
22.500	12,045.000	11,957.000	11,869.000	11,781.000	11,692.000
22.750	11,602.000	11,512.000	11,422.000	11,332.000	11,241.000
23.000	11,150.000	11,058.000	10,966.000	10,873.000	10,780.000
23.250	10,687.000	10,594.000	10,500.000	10,406.000	10,312.000
23.500	10,217.000	10,122.000	10,026.000	9,930.000	9,834.000
23.750	9,738.000	9,641.000	9,543.000	9,446.000	9,347.000
24.000	9,249.000	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume — Return Event: 100 years
Label: IB-1E — Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	1.000	3.000
4.500	5.000	8.000	12.000	17.000	23.000
4.750	29.000	36.000	44.000	53.000	62.000
5.000	72.000	82.000	94.000	105.000	118.000
5.250	130.000	144.000	158.000	172.000	187.000
5.500	202.000	218.000	235.000	251.000	269.000
5.750	286.000	304.000	323.000	342.000	361.000
6.000	381.000	401.000	421.000	443.000	465.000
6.250	487.000	511.000	535.000	560.000	586.000
6.500	613.000	640.000	668.000	698.000	728.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume
Label: IB-1E
Scenario: Post-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
6.750	758.000	790.000	822.000	856.000	890.000
7.000	925.000	961.000	997.000	1,035.000	1,073.000
7.250	1,112.000	1,153.000	1,194.000	1,235.000	1,278.000
7.500	1,322.000	1,366.000	1,411.000	1,457.000	1,504.000
7.750	1,552.000	1,601.000	1,650.000	1,701.000	1,752.000
8.000	1,804.000	1,857.000	1,912.000	1,968.000	2,027.000
8.250	2,089.000	2,153.000	2,219.000	2,288.000	2,359.000
8.500	2,433.000	2,509.000	2,588.000	2,669.000	2,752.000
8.750	2,838.000	2,927.000	3,018.000	3,111.000	3,207.000
9.000	3,305.000	3,406.000	3,509.000	3,615.000	3,723.000
9.250	3,834.000	3,947.000	4,062.000	4,180.000	4,299.000
9.500	4,417.000	4,542.000	4,674.000	4,813.000	4,960.000
9.750	5,113.000	5,274.000	5,443.000	5,619.000	5,803.000
10.000	5,995.000	6,196.000	6,407.000	6,629.000	6,865.000
10.250	7,114.000	7,377.000	7,654.000	7,946.000	8,253.000
10.500	8,575.000	8,909.000	9,242.000	9,590.000	9,953.000
10.750	10,333.000	10,728.000	11,140.000	11,569.000	12,016.000
11.000	12,479.000	12,967.000	13,487.000	14,029.000	14,608.000
11.250	15,238.000	15,921.000	16,660.000	17,455.000	18,285.000
11.500	19,117.000	19,987.000	20,981.000	22,185.000	23,690.000
11.750	25,419.000	27,344.000	29,477.000	31,705.000	34,671.000
12.000	39,038.000	44,130.000	48,965.000	52,485.000	53,848.000
12.250	53,594.000	52,660.000	51,313.000	49,651.000	47,679.000
12.500	45,492.000	43,239.000	40,980.000	38,865.000	37,018.000
12.750	35,392.000	33,955.000	32,724.000	31,661.000	30,735.000
13.000	29,919.000	29,160.000	28,484.000	27,888.000	27,368.000
13.250	26,914.000	26,518.000	26,169.000	25,860.000	25,586.000
13.500	25,341.000	25,120.000	24,921.000	24,738.000	24,571.000
13.750	24,417.000	24,273.000	24,128.000	23,984.000	23,841.000
14.000	23,699.000	23,559.000	23,424.000	23,293.000	23,169.000
14.250	23,051.000	22,939.000	22,832.000	22,730.000	22,631.000
14.500	22,537.000	22,445.000	22,357.000	22,271.000	22,188.000
14.750	22,106.000	22,027.000	21,949.000	21,873.000	21,798.000
15.000	21,725.000	21,652.000	21,581.000	21,510.000	21,440.000
15.250	21,371.000	21,303.000	21,235.000	21,167.000	21,101.000
15.500	21,034.000	20,968.000	20,902.000	20,837.000	20,772.000
15.750	20,707.000	20,642.000	20,578.000	20,513.000	20,449.000
16.000	20,385.000	20,322.000	20,261.000	20,202.000	20,146.000
16.250	20,092.000	20,041.000	19,993.000	19,947.000	19,903.000
16.500	19,861.000	19,820.000	19,780.000	19,742.000	19,705.000
16.750	19,669.000	19,634.000	19,600.000	19,566.000	19,534.000
17.000	19,501.000	19,469.000	19,438.000	19,408.000	19,377.000
17.250	19,347.000	19,317.000	19,288.000	19,258.000	19,229.000
17.500	19,200.000	19,172.000	19,143.000	19,115.000	19,087.000
17.750	19,059.000	19,031.000	19,002.000	18,975.000	18,947.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 100 years
Label: IB-1E | Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
18.000	18,919.000	18,892.000	18,865.000	18,840.000	18,815.000
18.250	18,791.000	18,767.000	18,742.000	18,718.000	18,694.000
18.500	18,670.000	18,646.000	18,623.000	18,599.000	18,575.000
18.750	18,552.000	18,528.000	18,505.000	18,482.000	18,458.000
19.000	18,435.000	18,412.000	18,389.000	18,365.000	18,342.000
19.250	18,320.000	18,297.000	18,274.000	18,251.000	18,228.000
19.500	18,205.000	18,182.000	18,160.000	18,137.000	18,114.000
19.750	18,092.000	18,069.000	18,047.000	18,024.000	18,002.000
20.000	17,979.000	17,957.000	17,934.000	17,912.000	17,890.000
20.250	17,869.000	17,848.000	17,826.000	17,805.000	17,784.000
20.500	17,763.000	17,741.000	17,718.000	17,694.000	17,670.000
20.750	17,644.000	17,618.000	17,592.000	17,565.000	17,537.000
21.000	17,509.000	17,481.000	17,451.000	17,421.000	17,389.000
21.250	17,358.000	17,325.000	17,292.000	17,258.000	17,224.000
21.500	17,188.000	17,152.000	17,116.000	17,079.000	17,041.000
21.750	17,002.000	16,963.000	16,924.000	16,883.000	16,842.000
22.000	16,800.000	16,758.000	16,715.000	16,671.000	16,626.000
22.250	16,581.000	16,535.000	16,488.000	16,441.000	16,393.000
22.500	16,345.000	16,296.000	16,246.000	16,196.000	16,145.000
22.750	16,093.000	16,041.000	15,988.000	15,934.000	15,880.000
23.000	15,825.000	15,770.000	15,713.000	15,656.000	15,598.000
23.250	15,540.000	15,481.000	15,422.000	15,362.000	15,302.000
23.500	15,241.000	15,178.000	15,116.000	15,052.000	14,989.000
23.750	14,924.000	14,859.000	14,794.000	14,727.000	14,659.000
24.000	14,592.000	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume | Return Event: 1 years
Label: OCS-1B | Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume　　Return Event: 1 years
Label: OCS-1B　　Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.250	0.000	1.000	1.000	2.000	3.000
5.500	4.000	5.000	7.000	8.000	10.000
5.750	12.000	14.000	16.000	18.000	21.000
6.000	23.000	26.000	26.000	26.000	26.000
6.250	26.000	26.000	26.000	26.000	26.000
6.500	26.000	26.000	26.000	26.000	26.000
6.750	26.000	26.000	26.000	27.000	27.000
7.000	27.000	27.000	27.000	27.000	27.000
7.250	27.000	27.000	27.000	27.000	27.000
7.500	27.000	27.000	27.000	27.000	27.000
7.750	27.000	27.000	27.000	27.000	27.000
8.000	27.000	27.000	27.000	28.000	28.000
8.250	28.000	28.000	28.000	28.000	28.000
8.500	28.000	28.000	28.000	28.000	28.000
8.750	28.000	29.000	29.000	29.000	29.000
9.000	29.000	29.000	29.000	29.000	29.000
9.250	29.000	29.000	29.000	29.000	29.000
9.500	29.000	29.000	29.000	29.000	29.000
9.750	29.000	29.000	29.000	30.000	30.000
10.000	30.000	30.000	30.000	30.000	30.000
10.250	30.000	30.000	30.000	30.000	30.000
10.500	30.000	30.000	30.000	30.000	30.000
10.750	31.000	31.000	31.000	31.000	31.000
11.000	31.000	31.000	31.000	31.000	31.000
11.250	32.000	32.000	32.000	32.000	32.000
11.500	32.000	33.000	33.000	34.000	35.000
11.750	36.000	37.000	38.000	39.000	42.000
12.000	45.000	48.000	49.000	48.000	50.000
12.250	53.000	56.000	58.000	60.000	61.000
12.500	62.000	64.000	65.000	65.000	66.000
12.750	66.000	66.000	66.000	66.000	66.000
13.000	66.000	66.000	65.000	65.000	65.000
13.250	65.000	65.000	65.000	65.000	65.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 1 years
Label: OCS-1B | Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
13.500	65.000	65.000	64.000	64.000	64.000
13.750	64.000	64.000	63.000	63.000	63.000
14.000	63.000	62.000	62.000	62.000	62.000
14.250	62.000	62.000	62.000	61.000	61.000
14.500	61.000	61.000	61.000	60.000	60.000
14.750	60.000	60.000	59.000	59.000	59.000
15.000	58.000	58.000	58.000	57.000	57.000
15.250	56.000	56.000	56.000	56.000	56.000
15.500	56.000	56.000	55.000	55.000	55.000
15.750	55.000	55.000	54.000	54.000	54.000
16.000	54.000	53.000	53.000	52.000	52.000
16.250	52.000	51.000	51.000	50.000	50.000
16.500	49.000	49.000	48.000	48.000	48.000
16.750	47.000	47.000	47.000	46.000	46.000
17.000	46.000	45.000	45.000	44.000	44.000
17.250	43.000	43.000	42.000	42.000	42.000
17.500	41.000	41.000	41.000	41.000	40.000
17.750	40.000	39.000	39.000	38.000	38.000
18.000	37.000	37.000	36.000	36.000	36.000
18.250	35.000	35.000	35.000	35.000	34.000
18.500	34.000	34.000	33.000	33.000	33.000
18.750	32.000	32.000	32.000	31.000	30.000
19.000	30.000	30.000	29.000	29.000	29.000
19.250	29.000	29.000	29.000	29.000	29.000
19.500	29.000	29.000	29.000	29.000	29.000
19.750	29.000	28.000	28.000	28.000	28.000
20.000	28.000	28.000	28.000	28.000	28.000
20.250	28.000	28.000	28.000	28.000	28.000
20.500	28.000	28.000	28.000	28.000	28.000
20.750	28.000	28.000	28.000	28.000	28.000
21.000	28.000	28.000	28.000	28.000	28.000
21.250	28.000	28.000	28.000	28.000	28.000
21.500	28.000	28.000	28.000	28.000	28.000
21.750	28.000	28.000	28.000	28.000	28.000
22.000	28.000	28.000	28.000	28.000	28.000
22.250	28.000	28.000	28.000	28.000	28.000
22.500	28.000	28.000	28.000	28.000	28.000
22.750	28.000	28.000	28.000	28.000	28.000
23.000	28.000	28.000	28.000	28.000	28.000
23.250	28.000	28.000	28.000	28.000	28.000
23.500	28.000	28.000	28.000	28.000	28.000
23.750	28.000	28.000	28.000	28.000	28.000
24.000	28.000	(N/A)	(N/A)	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 2 years
Label: OCS-1B | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	1.000	1.000	2.000	3.000
4.750	4.000	5.000	7.000	9.000	10.000
5.000	13.000	15.000	17.000	20.000	23.000
5.250	26.000	26.000	26.000	26.000	26.000
5.500	26.000	26.000	26.000	26.000	26.000
5.750	26.000	26.000	26.000	26.000	26.000
6.000	26.000	26.000	27.000	27.000	27.000
6.250	27.000	27.000	27.000	27.000	27.000
6.500	27.000	27.000	27.000	27.000	27.000
6.750	27.000	27.000	27.000	27.000	27.000
7.000	27.000	27.000	27.000	27.000	27.000
7.250	27.000	27.000	28.000	28.000	28.000
7.500	28.000	28.000	28.000	28.000	28.000
7.750	28.000	28.000	28.000	28.000	28.000
8.000	28.000	28.000	28.000	28.000	29.000
8.250	29.000	29.000	29.000	29.000	29.000
8.500	29.000	29.000	29.000	29.000	29.000
8.750	29.000	29.000	29.000	29.000	29.000
9.000	29.000	29.000	29.000	29.000	30.000
9.250	30.000	30.000	30.000	30.000	30.000
9.500	30.000	30.000	30.000	30.000	30.000
9.750	30.000	30.000	30.000	30.000	30.000
10.000	30.000	30.000	30.000	30.000	30.000
10.250	31.000	31.000	31.000	31.000	31.000
10.500	31.000	31.000	31.000	31.000	31.000
10.750	31.000	31.000	32.000	32.000	32.000
11.000	32.000	32.000	32.000	32.000	32.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 2 years
Label: OCS-1B | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
11.250	32.000	33.000	33.000	33.000	33.000
11.500	33.000	34.000	35.000	36.000	37.000
11.750	38.000	39.000	40.000	41.000	44.000
12.000	49.000	52.000	55.000	59.000	62.000
12.250	66.000	69.000	71.000	71.000	70.000
12.500	69.000	68.000	68.000	68.000	67.000
12.750	67.000	67.000	66.000	66.000	66.000
13.000	66.000	66.000	66.000	66.000	66.000
13.250	66.000	66.000	66.000	66.000	65.000
13.500	65.000	65.000	65.000	65.000	65.000
13.750	65.000	65.000	65.000	65.000	65.000
14.000	65.000	65.000	65.000	64.000	64.000
14.250	64.000	64.000	63.000	63.000	63.000
14.500	63.000	63.000	62.000	62.000	62.000
14.750	62.000	62.000	62.000	61.000	61.000
15.000	61.000	61.000	61.000	61.000	60.000
15.250	60.000	60.000	60.000	60.000	59.000
15.500	59.000	59.000	58.000	58.000	57.000
15.750	57.000	57.000	56.000	56.000	56.000
16.000	56.000	56.000	56.000	55.000	55.000
16.250	55.000	55.000	55.000	55.000	54.000
16.500	54.000	54.000	54.000	53.000	53.000
16.750	52.000	52.000	52.000	51.000	51.000
17.000	50.000	50.000	50.000	49.000	48.000
17.250	48.000	48.000	48.000	47.000	47.000
17.500	47.000	46.000	46.000	45.000	45.000
17.750	44.000	44.000	44.000	43.000	43.000
18.000	42.000	42.000	42.000	41.000	41.000
18.250	41.000	40.000	40.000	40.000	39.000
18.500	39.000	38.000	38.000	37.000	37.000
18.750	36.000	36.000	36.000	35.000	35.000
19.000	35.000	35.000	35.000	34.000	34.000
19.250	34.000	33.000	33.000	33.000	32.000
19.500	32.000	31.000	31.000	30.000	30.000
19.750	30.000	29.000	29.000	29.000	29.000
20.000	29.000	29.000	29.000	29.000	29.000
20.250	29.000	29.000	29.000	29.000	29.000
20.500	29.000	29.000	29.000	29.000	29.000
20.750	29.000	29.000	29.000	29.000	29.000
21.000	29.000	29.000	29.000	29.000	29.000
21.250	29.000	29.000	29.000	29.000	29.000
21.500	29.000	29.000	29.000	29.000	29.000
21.750	29.000	29.000	29.000	29.000	28.000
22.000	28.000	28.000	28.000	28.000	28.000
22.250	28.000	28.000	28.000	28.000	28.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume
Label: OCS-1B
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
22.500	28.000	28.000	28.000	28.000	28.000
22.750	28.000	28.000	28.000	28.000	28.000
23.000	28.000	28.000	28.000	28.000	28.000
23.250	28.000	28.000	28.000	28.000	28.000
23.500	28.000	28.000	28.000	28.000	28.000
23.750	28.000	28.000	28.000	28.000	28.000
24.000	28.000	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume
Label: OCS-1B
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	1.000	1.000	2.000	4.000
3.500	5.000	7.000	10.000	12.000	15.000
3.750	18.000	22.000	26.000	26.000	26.000
4.000	26.000	26.000	26.000	26.000	26.000
4.250	26.000	27.000	27.000	27.000	27.000
4.500	27.000	27.000	27.000	27.000	27.000
4.750	27.000	27.000	27.000	27.000	27.000
5.000	27.000	27.000	27.000	27.000	27.000
5.250	27.000	27.000	27.000	27.000	27.000
5.500	27.000	27.000	28.000	28.000	28.000
5.750	28.000	28.000	28.000	28.000	28.000
6.000	28.000	28.000	28.000	28.000	28.000
6.250	28.000	28.000	28.000	28.000	28.000
6.500	29.000	29.000	29.000	29.000	29.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 10 years
Label: OCS-1B | Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
6.750	29.000	29.000	29.000	29.000	29.000
7.000	29.000	29.000	29.000	29.000	29.000
7.250	29.000	29.000	29.000	29.000	29.000
7.500	29.000	29.000	29.000	29.000	29.000
7.750	29.000	29.000	30.000	30.000	30.000
8.000	30.000	30.000	30.000	30.000	30.000
8.250	30.000	30.000	30.000	30.000	30.000
8.500	30.000	30.000	30.000	30.000	30.000
8.750	30.000	30.000	31.000	31.000	31.000
9.000	31.000	31.000	31.000	31.000	31.000
9.250	31.000	31.000	31.000	31.000	31.000
9.500	31.000	31.000	31.000	32.000	32.000
9.750	32.000	32.000	32.000	32.000	32.000
10.000	32.000	32.000	32.000	32.000	32.000
10.250	32.000	32.000	32.000	32.000	32.000
10.500	33.000	33.000	33.000	33.000	33.000
10.750	33.000	33.000	33.000	33.000	33.000
11.000	33.000	33.000	34.000	34.000	34.000
11.250	34.000	35.000	35.000	35.000	35.000
11.500	36.000	36.000	37.000	39.000	40.000
11.750	42.000	43.000	46.000	48.000	55.000
12.000	66.000	71.000	74.000	80.000	82.000
12.250	79.000	75.000	72.000	72.000	71.000
12.500	71.000	70.000	69.000	69.000	68.000
12.750	68.000	68.000	68.000	68.000	67.000
13.000	67.000	67.000	67.000	67.000	67.000
13.250	67.000	67.000	66.000	66.000	66.000
13.500	66.000	66.000	66.000	66.000	66.000
13.750	66.000	66.000	66.000	66.000	66.000
14.000	66.000	66.000	66.000	66.000	66.000
14.250	66.000	66.000	66.000	66.000	66.000
14.500	66.000	66.000	65.000	65.000	65.000
14.750	65.000	65.000	65.000	65.000	65.000
15.000	65.000	65.000	65.000	65.000	65.000
15.250	65.000	65.000	65.000	65.000	65.000
15.500	64.000	64.000	64.000	64.000	64.000
15.750	63.000	63.000	63.000	63.000	62.000
16.000	62.000	62.000	62.000	62.000	62.000
16.250	62.000	61.000	61.000	61.000	61.000
16.500	61.000	60.000	60.000	60.000	60.000
16.750	60.000	59.000	59.000	59.000	58.000
17.000	58.000	58.000	57.000	57.000	57.000
17.250	56.000	56.000	56.000	56.000	56.000
17.500	56.000	55.000	55.000	55.000	55.000
17.750	55.000	54.000	54.000	54.000	54.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 10 years
Label: OCS-1B | Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
18.000	53.000	53.000	53.000	52.000	52.000
18.250	52.000	51.000	51.000	50.000	50.000
18.500	50.000	50.000	49.000	49.000	48.000
18.750	48.000	48.000	48.000	47.000	47.000
19.000	47.000	46.000	46.000	46.000	45.000
19.250	45.000	44.000	44.000	44.000	43.000
19.500	43.000	43.000	43.000	43.000	42.000
19.750	42.000	42.000	42.000	41.000	41.000
20.000	41.000	41.000	40.000	40.000	40.000
20.250	39.000	39.000	38.000	38.000	37.000
20.500	37.000	37.000	36.000	36.000	36.000
20.750	35.000	35.000	35.000	35.000	35.000
21.000	34.000	34.000	34.000	34.000	33.000
21.250	33.000	33.000	32.000	32.000	31.000
21.500	31.000	30.000	30.000	30.000	30.000
21.750	30.000	30.000	30.000	29.000	29.000
22.000	29.000	29.000	29.000	29.000	29.000
22.250	29.000	29.000	29.000	29.000	29.000
22.500	29.000	29.000	29.000	29.000	29.000
22.750	29.000	29.000	29.000	29.000	29.000
23.000	29.000	29.000	29.000	29.000	29.000
23.250	29.000	29.000	29.000	29.000	29.000
23.500	29.000	29.000	29.000	29.000	29.000
23.750	29.000	29.000	29.000	29.000	29.000
24.000	29.000	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume | Return Event: 25 years
Label: OCS-1B | Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 25 years
Label: OCS-1B | Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	1.000
2.750	1.000	3.000	4.000	6.000	9.000
3.000	11.000	15.000	18.000	23.000	26.000
3.250	26.000	26.000	26.000	26.000	26.000
3.500	27.000	27.000	27.000	27.000	27.000
3.750	27.000	27.000	27.000	27.000	27.000
4.000	27.000	27.000	27.000	27.000	27.000
4.250	27.000	27.000	27.000	27.000	28.000
4.500	28.000	28.000	28.000	28.000	28.000
4.750	28.000	28.000	28.000	28.000	28.000
5.000	28.000	28.000	28.000	28.000	28.000
5.250	28.000	28.000	28.000	29.000	29.000
5.500	29.000	29.000	29.000	29.000	29.000
5.750	29.000	29.000	29.000	29.000	29.000
6.000	29.000	29.000	29.000	29.000	29.000
6.250	29.000	29.000	29.000	29.000	29.000
6.500	29.000	29.000	29.000	29.000	29.000
6.750	29.000	29.000	29.000	30.000	30.000
7.000	30.000	30.000	30.000	30.000	30.000
7.250	30.000	30.000	30.000	30.000	30.000
7.500	30.000	30.000	30.000	30.000	30.000
7.750	30.000	30.000	30.000	30.000	30.000
8.000	30.000	30.000	30.000	31.000	31.000
8.250	31.000	31.000	31.000	31.000	31.000
8.500	31.000	31.000	31.000	31.000	31.000
8.750	31.000	31.000	32.000	32.000	32.000
9.000	32.000	32.000	32.000	32.000	32.000
9.250	32.000	32.000	32.000	32.000	32.000
9.500	32.000	32.000	32.000	32.000	32.000
9.750	32.000	32.000	33.000	33.000	33.000
10.000	33.000	33.000	33.000	33.000	33.000
10.250	33.000	33.000	33.000	33.000	34.000
10.500	34.000	34.000	34.000	34.000	34.000
10.750	34.000	34.000	34.000	34.000	35.000
11.000	35.000	35.000	35.000	35.000	36.000
11.250	36.000	37.000	37.000	37.000	37.000
11.500	38.000	39.000	41.000	43.000	44.000
11.750	48.000	52.000	58.000	65.000	70.000
12.000	76.000	82.000	88.000	87.000	85.000
12.250	83.000	79.000	75.000	73.000	72.000
12.500	72.000	71.000	70.000	69.000	69.000
12.750	69.000	69.000	69.000	68.000	68.000
13.000	68.000	68.000	68.000	67.000	67.000
13.250	67.000	67.000	67.000	67.000	67.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume — Return Event: 25 years
Label: OCS-1B — Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
13.500	67.000	67.000	67.000	67.000	67.000
13.750	67.000	67.000	67.000	66.000	66.000
14.000	66.000	66.000	66.000	66.000	66.000
14.250	66.000	66.000	66.000	66.000	66.000
14.500	66.000	66.000	66.000	66.000	66.000
14.750	66.000	66.000	66.000	66.000	66.000
15.000	66.000	66.000	66.000	66.000	66.000
15.250	66.000	66.000	66.000	65.000	65.000
15.500	65.000	65.000	65.000	65.000	65.000
15.750	65.000	65.000	65.000	65.000	65.000
16.000	65.000	65.000	65.000	64.000	64.000
16.250	64.000	64.000	64.000	63.000	63.000
16.500	63.000	63.000	63.000	62.000	62.000
16.750	62.000	62.000	62.000	62.000	62.000
17.000	61.000	61.000	61.000	61.000	61.000
17.250	61.000	60.000	60.000	60.000	60.000
17.500	60.000	59.000	59.000	59.000	58.000
17.750	58.000	58.000	57.000	57.000	57.000
18.000	56.000	56.000	56.000	56.000	56.000
18.250	56.000	55.000	55.000	55.000	55.000
18.500	55.000	55.000	54.000	54.000	54.000
18.750	54.000	53.000	53.000	53.000	52.000
19.000	52.000	52.000	51.000	51.000	50.000
19.250	50.000	50.000	50.000	50.000	50.000
19.500	49.000	49.000	49.000	49.000	49.000
19.750	49.000	49.000	48.000	48.000	48.000
20.000	48.000	48.000	47.000	47.000	47.000
20.250	46.000	46.000	46.000	45.000	45.000
20.500	44.000	44.000	44.000	43.000	43.000
20.750	43.000	43.000	43.000	42.000	42.000
21.000	42.000	42.000	42.000	41.000	41.000
21.250	41.000	41.000	40.000	40.000	40.000
21.500	39.000	39.000	39.000	38.000	38.000
21.750	37.000	37.000	36.000	36.000	36.000
22.000	35.000	35.000	35.000	35.000	35.000
22.250	35.000	34.000	34.000	34.000	34.000
22.500	33.000	33.000	33.000	32.000	32.000
22.750	32.000	31.000	31.000	30.000	30.000
23.000	30.000	30.000	30.000	30.000	30.000
23.250	29.000	29.000	29.000	29.000	29.000
23.500	29.000	29.000	29.000	29.000	29.000
23.750	29.000	29.000	29.000	29.000	29.000
24.000	29.000	(N/A)	(N/A)	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 100 years
Label: OCS-1B | Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	1.000	3.000	5.000	8.000	11.000
2.250	16.000	20.000	26.000	26.000	26.000
2.500	27.000	27.000	27.000	27.000	27.000
2.750	27.000	27.000	27.000	27.000	27.000
3.000	27.000	27.000	27.000	28.000	28.000
3.250	28.000	28.000	28.000	28.000	28.000
3.500	28.000	28.000	28.000	28.000	28.000
3.750	29.000	29.000	29.000	29.000	29.000
4.000	29.000	29.000	29.000	29.000	29.000
4.250	29.000	29.000	29.000	29.000	29.000
4.500	29.000	29.000	29.000	29.000	29.000
4.750	29.000	29.000	29.000	29.000	29.000
5.000	29.000	29.000	29.000	29.000	30.000
5.250	30.000	30.000	30.000	30.000	30.000
5.500	30.000	30.000	30.000	30.000	30.000
5.750	30.000	30.000	30.000	30.000	30.000
6.000	30.000	30.000	30.000	30.000	30.000
6.250	30.000	30.000	30.000	30.000	30.000
6.500	30.000	30.000	30.000	30.000	31.000
6.750	31.000	31.000	31.000	31.000	31.000
7.000	31.000	31.000	31.000	31.000	31.000
7.250	31.000	31.000	31.000	31.000	31.000
7.500	31.000	31.000	31.000	31.000	32.000
7.750	32.000	32.000	32.000	32.000	32.000
8.000	32.000	32.000	32.000	32.000	32.000
8.250	32.000	32.000	32.000	32.000	32.000
8.500	32.000	32.000	32.000	33.000	33.000
8.750	33.000	33.000	33.000	33.000	33.000
9.000	33.000	33.000	33.000	33.000	33.000
9.250	33.000	33.000	34.000	34.000	34.000
9.500	34.000	34.000	34.000	34.000	34.000
9.750	34.000	34.000	34.000	34.000	34.000
10.000	34.000	35.000	35.000	35.000	36.000
10.250	36.000	36.000	36.000	37.000	37.000
10.500	37.000	37.000	37.000	38.000	40.000
10.750	41.000	41.000	42.000	42.000	43.000
11.000	43.000	45.000	46.000	48.000	49.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume Return Event: 100 years
Label: OCS-1B Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
11.250	49.000	51.000	54.000	55.000	56.000
11.500	60.000	62.000	65.000	68.000	71.000
11.750	74.000	75.000	77.000	78.000	80.000
12.000	87.000	98.000	100.000	96.000	88.000
12.250	86.000	84.000	81.000	78.000	75.000
12.500	73.000	72.000	72.000	71.000	70.000
12.750	70.000	70.000	70.000	70.000	69.000
13.000	69.000	69.000	69.000	69.000	69.000
13.250	69.000	68.000	68.000	68.000	68.000
13.500	68.000	68.000	68.000	68.000	68.000
13.750	68.000	68.000	68.000	68.000	67.000
14.000	67.000	67.000	67.000	67.000	67.000
14.250	67.000	67.000	67.000	67.000	67.000
14.500	67.000	67.000	67.000	67.000	67.000
14.750	67.000	67.000	67.000	67.000	67.000
15.000	66.000	66.000	66.000	66.000	66.000
15.250	66.000	66.000	66.000	66.000	66.000
15.500	66.000	66.000	66.000	66.000	66.000
15.750	66.000	66.000	66.000	66.000	66.000
16.000	66.000	66.000	66.000	66.000	66.000
16.250	66.000	66.000	66.000	66.000	65.000
16.500	65.000	65.000	65.000	65.000	65.000
16.750	65.000	65.000	65.000	65.000	65.000
17.000	65.000	65.000	65.000	65.000	65.000
17.250	65.000	65.000	65.000	65.000	65.000
17.500	64.000	64.000	64.000	64.000	64.000
17.750	64.000	63.000	63.000	63.000	63.000
18.000	63.000	62.000	62.000	62.000	62.000
18.250	62.000	62.000	62.000	61.000	61.000
18.500	61.000	61.000	61.000	61.000	60.000
18.750	60.000	60.000	60.000	60.000	60.000
19.000	59.000	59.000	59.000	59.000	58.000
19.250	58.000	58.000	57.000	57.000	57.000
19.500	57.000	56.000	56.000	56.000	56.000
19.750	56.000	56.000	55.000	55.000	55.000
20.000	55.000	55.000	55.000	54.000	54.000
20.250	54.000	54.000	54.000	53.000	53.000
20.500	53.000	53.000	52.000	52.000	52.000
20.750	52.000	51.000	51.000	50.000	50.000
21.000	50.000	50.000	50.000	50.000	49.000
21.250	49.000	49.000	49.000	49.000	49.000
21.500	49.000	48.000	48.000	48.000	48.000
21.750	48.000	47.000	47.000	47.000	47.000
22.000	46.000	46.000	46.000	46.000	45.000
22.250	45.000	44.000	44.000	44.000	43.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 100 years
Label: OCS-1B | Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
22.500	43.000	43.000	43.000	43.000	42.000
22.750	42.000	42.000	42.000	42.000	41.000
23.000	41.000	41.000	41.000	41.000	40.000
23.250	40.000	40.000	39.000	39.000	39.000
23.500	38.000	38.000	37.000	37.000	37.000
23.750	36.000	36.000	36.000	35.000	35.000
24.000	35.000	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume | Return Event: 1 years
Label: UI-1B | Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.250	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
5.750	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.250	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume — Return Event: 1 years
Label: UI-1B — Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
6.750	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.250	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
7.750	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.250	0.000	0.000	0.000	0.000	0.000
8.500	0.000	0.000	0.000	0.000	0.000
8.750	0.000	0.000	0.000	0.000	0.000
9.000	0.000	0.000	0.000	0.000	0.000
9.250	0.000	0.000	0.000	0.000	0.000
9.500	0.000	0.000	0.000	0.000	0.000
9.750	0.000	0.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000	0.000	0.000
10.250	0.000	0.000	0.000	0.000	0.000
10.500	0.000	0.000	0.000	0.000	0.000
10.750	0.000	0.000	0.000	0.000	0.000
11.000	0.000	0.000	0.000	0.000	0.000
11.250	0.000	0.000	0.000	0.000	2.000
11.500	12.000	35.000	82.000	168.000	309.000
11.750	514.000	790.000	1,139.000	1,564.000	2,117.000
12.000	2,913.000	3,978.000	5,196.000	6,407.000	7,426.000
12.250	8,185.000	8,772.000	9,261.000	9,670.000	10,002.000
12.500	10,258.000	10,442.000	10,570.000	10,658.000	10,709.000
12.750	10,726.000	10,725.000	10,715.000	10,701.000	10,685.000
13.000	10,669.000	10,654.000	10,639.000	10,627.000	10,617.000
13.250	10,606.000	10,593.000	10,578.000	10,560.000	10,541.000
13.500	10,519.000	10,496.000	10,470.000	10,442.000	10,412.000
13.750	10,380.000	10,346.000	10,309.000	10,271.000	10,231.000
14.000	10,195.000	10,164.000	10,137.000	10,110.000	10,083.000
14.250	10,054.000	10,023.000	9,986.000	9,942.000	9,890.000
14.500	9,835.000	9,778.000	9,720.000	9,661.000	9,601.000
14.750	9,540.000	9,479.000	9,416.000	9,352.000	9,287.000
15.000	9,221.000	9,154.000	9,086.000	9,017.000	8,949.000
15.250	8,896.000	8,859.000	8,828.000	8,799.000	8,771.000
15.500	8,742.000	8,712.000	8,678.000	8,641.000	8,597.000
15.750	8,543.000	8,474.000	8,393.000	8,308.000	8,222.000
16.000	8,135.000	8,048.000	7,959.000	7,869.000	7,779.000
16.250	7,689.000	7,598.000	7,515.000	7,408.000	7,270.000
16.500	7,132.000	7,035.000	6,964.000	6,874.000	6,779.000
16.750	6,684.000	6,588.000	6,492.000	6,395.000	6,298.000
17.000	6,201.000	6,103.000	6,005.000	5,912.000	5,838.000
17.250	5,738.000	5,600.000	5,462.000	5,347.000	5,249.000
17.500	5,147.000	5,045.000	4,942.000	4,838.000	4,734.000
17.750	4,630.000	4,525.000	4,420.000	4,314.000	4,208.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume	Return Event: 1 years
Label: UI-1B	Storm Event: 1 year
Scenario: Post-Development 1 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
18.000	4,102.000	3,995.000	3,887.000	3,780.000	3,672.000
18.250	3,564.000	3,455.000	3,347.000	3,238.000	3,129.000
18.500	3,020.000	2,912.000	2,802.000	2,693.000	2,584.000
18.750	2,474.000	2,365.000	2,255.000	2,146.000	2,036.000
19.000	1,926.000	1,816.000	1,705.000	1,594.000	1,483.000
19.250	1,372.000	1,261.000	1,149.000	1,038.000	926.000
19.500	814.000	702.000	590.000	478.000	366.000
19.750	253.000	140.000	27.000	0.000	0.000
20.000	0.000	0.000	0.000	0.000	0.000
20.250	0.000	0.000	0.000	0.000	0.000
20.500	0.000	0.000	0.000	0.000	0.000
20.750	0.000	0.000	0.000	0.000	0.000
21.000	0.000	0.000	0.000	0.000	0.000
21.250	0.000	0.000	0.000	0.000	0.000
21.500	0.000	0.000	0.000	0.000	0.000
21.750	0.000	0.000	0.000	0.000	0.000
22.000	0.000	0.000	0.000	0.000	0.000
22.250	0.000	0.000	0.000	0.000	0.000
22.500	0.000	0.000	0.000	0.000	0.000
22.750	0.000	0.000	0.000	0.000	0.000
23.000	0.000	0.000	0.000	0.000	0.000
23.250	0.000	0.000	0.000	0.000	0.000
23.500	0.000	0.000	0.000	0.000	0.000
23.750	0.000	0.000	0.000	0.000	0.000
24.000	0.000	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume	Return Event: 2 years
Label: UI-1B	Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume
Label: UI-1B
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Time vs. Volume (ft^3)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.250	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
5.750	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.250	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
6.750	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.250	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
7.750	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.250	0.000	0.000	0.000	0.000	0.000
8.500	0.000	0.000	0.000	0.000	0.000
8.750	0.000	0.000	0.000	0.000	0.000
9.000	0.000	0.000	0.000	0.000	0.000
9.250	0.000	0.000	0.000	0.000	0.000
9.500	0.000	0.000	0.000	0.000	0.000
9.750	0.000	0.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000	0.000	0.000
10.250	0.000	0.000	0.000	0.000	0.000
10.500	0.000	0.000	0.000	0.000	0.000
10.750	0.000	0.000	0.000	0.000	0.000
11.000	0.000	0.000	0.000	0.000	1.000
11.250	10.000	28.000	56.000	93.000	139.000
11.500	196.000	268.000	373.000	527.000	752.000
11.750	1,060.000	1,457.000	1,947.000	2,532.000	3,276.000
12.000	4,327.000	5,711.000	7,282.000	8,835.000	10,142.000
12.250	11,083.000	11,650.000	11,773.000	11,550.000	11,313.000
12.500	11,222.000	11,198.000	11,165.000	11,079.000	10,976.000
12.750	10,920.000	10,878.000	10,842.000	10,810.000	10,782.000
13.000	10,756.000	10,732.000	10,712.000	10,694.000	10,681.000
13.250	10,670.000	10,663.000	10,656.000	10,651.000	10,646.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 2 years
Label: UI-1B | Storm Event: 2 year
Scenario: Post-Development 2 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
13.500	10,641.000	10,636.000	10,631.000	10,626.000	10,620.000
13.750	10,612.000	10,602.000	10,589.000	10,574.000	10,555.000
14.000	10,535.000	10,511.000	10,486.000	10,458.000	10,429.000
14.250	10,399.000	10,367.000	10,334.000	10,300.000	10,265.000
14.500	10,228.000	10,193.000	10,163.000	10,135.000	10,109.000
14.750	10,082.000	10,053.000	10,021.000	9,984.000	9,940.000
15.000	9,890.000	9,839.000	9,787.000	9,734.000	9,679.000
15.250	9,623.000	9,566.000	9,507.000	9,447.000	9,386.000
15.500	9,324.000	9,260.000	9,195.000	9,129.000	9,062.000
15.750	8,993.000	8,931.000	8,884.000	8,850.000	8,820.000
16.000	8,791.000	8,763.000	8,734.000	8,703.000	8,668.000
16.250	8,629.000	8,583.000	8,525.000	8,453.000	8,370.000
16.500	8,288.000	8,204.000	8,121.000	8,036.000	7,951.000
16.750	7,866.000	7,780.000	7,693.000	7,606.000	7,523.000
17.000	7,462.000	7,372.000	7,234.000	7,096.000	6,994.000
17.250	6,915.000	6,824.000	6,731.000	6,638.000	6,545.000
17.500	6,451.000	6,357.000	6,262.000	6,166.000	6,070.000
17.750	5,973.000	5,887.000	5,781.000	5,643.000	5,505.000
18.000	5,396.000	5,305.000	5,205.000	5,103.000	5,002.000
18.250	4,901.000	4,799.000	4,697.000	4,595.000	4,493.000
18.500	4,391.000	4,289.000	4,186.000	4,084.000	3,981.000
18.750	3,878.000	3,775.000	3,672.000	3,568.000	3,464.000
19.000	3,360.000	3,256.000	3,151.000	3,047.000	2,942.000
19.250	2,837.000	2,732.000	2,627.000	2,522.000	2,416.000
19.500	2,311.000	2,205.000	2,099.000	1,993.000	1,887.000
19.750	1,781.000	1,674.000	1,567.000	1,459.000	1,352.000
20.000	1,244.000	1,136.000	1,029.000	920.000	812.000
20.250	704.000	595.000	487.000	378.000	269.000
20.500	160.000	51.000	0.000	0.000	0.000
20.750	0.000	0.000	0.000	0.000	0.000
21.000	0.000	0.000	0.000	0.000	0.000
21.250	0.000	0.000	0.000	0.000	0.000
21.500	0.000	0.000	0.000	0.000	0.000
21.750	0.000	0.000	0.000	0.000	0.000
22.000	0.000	0.000	0.000	0.000	0.000
22.250	0.000	0.000	0.000	0.000	0.000
22.500	0.000	0.000	0.000	0.000	0.000
22.750	0.000	0.000	0.000	0.000	0.000
23.000	0.000	0.000	0.000	0.000	0.000
23.250	0.000	0.000	0.000	0.000	0.000
23.500	0.000	0.000	0.000	0.000	0.000
23.750	0.000	0.000	0.000	0.000	0.000
24.000	0.000	(N/A)	(N/A)	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume — Return Event: 10 years
Label: UI-1B — Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.250	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
5.750	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.250	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
6.750	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.250	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
7.750	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.250	0.000	0.000	0.000	0.000	0.000
8.500	0.000	0.000	0.000	0.000	0.000
8.750	0.000	0.000	0.000	0.000	0.000
9.000	0.000	0.000	0.000	0.000	0.000
9.250	0.000	0.000	0.000	0.000	0.000
9.500	0.000	0.000	0.000	0.000	0.000
9.750	0.000	0.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000	0.000	0.000
10.250	1.000	6.000	15.000	28.000	45.000
10.500	66.000	91.000	120.000	153.000	191.000
10.750	233.000	279.000	329.000	384.000	442.000
11.000	506.000	574.000	650.000	735.000	833.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume — Return Event: 10 years
Label: UI-1B — Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
11.250	945.000	1,071.000	1,213.000	1,369.000	1,540.000
11.500	1,727.000	1,940.000	2,205.000	2,551.000	3,011.000
11.750	3,605.000	4,341.000	5,221.000	6,249.000	7,524.000
12.000	9,232.000	11,105.000	12,611.000	13,292.000	12,968.000
12.250	12,214.000	11,720.000	11,598.000	11,616.000	11,591.000
12.500	11,490.000	11,375.000	11,307.000	11,273.000	11,244.000
12.750	11,215.000	11,185.000	11,150.000	11,109.000	11,065.000
13.000	11,025.000	10,989.000	10,956.000	10,925.000	10,897.000
13.250	10,874.000	10,854.000	10,838.000	10,824.000	10,812.000
13.500	10,802.000	10,792.000	10,782.000	10,773.000	10,764.000
13.750	10,755.000	10,746.000	10,738.000	10,729.000	10,720.000
14.000	10,712.000	10,704.000	10,696.000	10,689.000	10,683.000
14.250	10,678.000	10,673.000	10,669.000	10,665.000	10,661.000
14.500	10,658.000	10,654.000	10,650.000	10,646.000	10,643.000
14.750	10,639.000	10,635.000	10,631.000	10,628.000	10,624.000
15.000	10,620.000	10,613.000	10,605.000	10,595.000	10,583.000
15.250	10,569.000	10,553.000	10,535.000	10,515.000	10,493.000
15.500	10,469.000	10,444.000	10,416.000	10,386.000	10,355.000
15.750	10,321.000	10,285.000	10,248.000	10,211.000	10,178.000
16.000	10,150.000	10,123.000	10,096.000	10,068.000	10,038.000
16.250	10,004.000	9,964.000	9,916.000	9,863.000	9,809.000
16.500	9,755.000	9,699.000	9,643.000	9,585.000	9,527.000
16.750	9,469.000	9,409.000	9,348.000	9,287.000	9,225.000
17.000	9,161.000	9,098.000	9,033.000	8,967.000	8,912.000
17.250	8,872.000	8,840.000	8,810.000	8,782.000	8,753.000
17.500	8,724.000	8,692.000	8,656.000	8,615.000	8,566.000
17.750	8,504.000	8,430.000	8,353.000	8,274.000	8,194.000
18.000	8,114.000	8,033.000	7,951.000	7,869.000	7,786.000
18.250	7,703.000	7,620.000	7,537.000	7,470.000	7,428.000
18.500	7,342.000	7,204.000	7,115.000	7,065.000	6,997.000
18.750	6,916.000	6,830.000	6,744.000	6,658.000	6,571.000
19.000	6,484.000	6,397.000	6,310.000	6,222.000	6,134.000
19.250	6,046.000	5,958.000	5,878.000	5,814.000	5,761.000
19.500	5,712.000	5,664.000	5,614.000	5,560.000	5,497.000
19.750	5,422.000	5,335.000	5,244.000	5,152.000	5,060.000
20.000	4,968.000	4,876.000	4,783.000	4,690.000	4,597.000
20.250	4,505.000	4,411.000	4,318.000	4,224.000	4,131.000
20.500	4,037.000	3,943.000	3,848.000	3,754.000	3,659.000
20.750	3,563.000	3,468.000	3,372.000	3,276.000	3,181.000
21.000	3,084.000	2,988.000	2,892.000	2,795.000	2,698.000
21.250	2,601.000	2,504.000	2,407.000	2,309.000	2,212.000
21.500	2,114.000	2,016.000	1,918.000	1,819.000	1,720.000
21.750	1,621.000	1,521.000	1,422.000	1,322.000	1,222.000
22.000	1,122.000	1,022.000	921.000	821.000	720.000
22.250	618.000	517.000	415.000	313.000	211.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume
Return Event: 10 years
Label: UI-1B
Storm Event: 10 year
Scenario: Post-Development 10 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
22.500	109.000	7.000	0.000	0.000	0.000
22.750	0.000	0.000	0.000	0.000	0.000
23.000	0.000	0.000	0.000	0.000	0.000
23.250	0.000	0.000	0.000	0.000	0.000
23.500	0.000	0.000	0.000	0.000	0.000
23.750	0.000	0.000	0.000	0.000	0.000
24.000	0.000	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume
Return Event: 25 years
Label: UI-1B
Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.250	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
5.750	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.250	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 25 years
Label: UI-1B | Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
6.750	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.250	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
7.750	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.250	0.000	0.000	0.000	0.000	0.000
8.500	0.000	0.000	0.000	0.000	0.000
8.750	0.000	0.000	0.000	0.000	0.000
9.000	0.000	0.000	0.000	0.000	0.000
9.250	0.000	0.000	0.000	0.000	1.000
9.500	4.000	10.000	18.000	29.000	43.000
9.750	60.000	79.000	101.000	126.000	153.000
10.000	183.000	217.000	253.000	294.000	339.000
10.250	389.000	444.000	504.000	569.000	640.000
10.500	716.000	796.000	883.000	974.000	1,071.000
10.750	1,173.000	1,281.000	1,394.000	1,512.000	1,636.000
11.000	1,765.000	1,901.000	2,046.000	2,204.000	2,378.000
11.250	2,570.000	2,780.000	3,010.000	3,260.000	3,528.000
11.500	3,817.000	4,139.000	4,528.000	5,023.000	5,666.000
11.750	6,481.000	7,476.000	8,657.000	10,024.000	11,445.000
12.000	12,690.000	13,449.000	13,449.000	13,449.000	13,449.000
12.250	12,865.000	12,146.000	11,783.000	11,728.000	11,724.000
12.500	11,635.000	11,497.000	11,383.000	11,327.000	11,316.000
12.750	11,310.000	11,293.000	11,266.000	11,238.000	11,209.000
13.000	11,178.000	11,144.000	11,108.000	11,077.000	11,053.000
13.250	11,033.000	11,017.000	11,004.000	10,991.000	10,978.000
13.500	10,965.000	10,951.000	10,936.000	10,921.000	10,906.000
13.750	10,890.000	10,875.000	10,860.000	10,846.000	10,832.000
14.000	10,819.000	10,807.000	10,796.000	10,786.000	10,777.000
14.250	10,769.000	10,763.000	10,757.000	10,751.000	10,746.000
14.500	10,740.000	10,735.000	10,730.000	10,725.000	10,720.000
14.750	10,714.000	10,709.000	10,704.000	10,699.000	10,694.000
15.000	10,689.000	10,684.000	10,679.000	10,675.000	10,670.000
15.250	10,665.000	10,660.000	10,655.000	10,650.000	10,646.000
15.500	10,641.000	10,636.000	10,631.000	10,627.000	10,622.000
15.750	10,615.000	10,606.000	10,595.000	10,581.000	10,565.000
16.000	10,546.000	10,525.000	10,501.000	10,477.000	10,450.000
16.250	10,423.000	10,394.000	10,365.000	10,334.000	10,302.000
16.500	10,269.000	10,235.000	10,202.000	10,170.000	10,142.000
16.750	10,116.000	10,089.000	10,061.000	10,030.000	9,994.000
17.000	9,953.000	9,908.000	9,862.000	9,815.000	9,767.000
17.250	9,718.000	9,667.000	9,616.000	9,564.000	9,510.000
17.500	9,456.000	9,400.000	9,343.000	9,286.000	9,227.000
17.750	9,167.000	9,106.000	9,044.000	8,981.000	8,924.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 25 years
Label: UI-1B | Storm Event: 25 year
Scenario: Post-Development 25 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
18.000	8,882.000	8,848.000	8,817.000	8,789.000	8,761.000
18.250	8,732.000	8,700.000	8,666.000	8,626.000	8,579.000
18.500	8,521.000	8,453.000	8,382.000	8,310.000	8,239.000
18.750	8,166.000	8,094.000	8,021.000	7,948.000	7,875.000
19.000	7,802.000	7,728.000	7,654.000	7,579.000	7,508.000
19.250	7,454.000	7,417.000	7,386.000	7,358.000	7,331.000
19.500	7,304.000	7,276.000	7,247.000	7,215.000	7,180.000
19.750	7,139.000	7,089.000	7,028.000	6,954.000	6,874.000
20.000	6,794.000	6,714.000	6,633.000	6,552.000	6,470.000
20.250	6,389.000	6,307.000	6,225.000	6,143.000	6,061.000
20.500	5,978.000	5,899.000	5,831.000	5,775.000	5,726.000
20.750	5,678.000	5,629.000	5,576.000	5,516.000	5,445.000
21.000	5,363.000	5,278.000	5,192.000	5,106.000	5,020.000
21.250	4,933.000	4,846.000	4,759.000	4,672.000	4,585.000
21.500	4,497.000	4,409.000	4,321.000	4,233.000	4,144.000
21.750	4,056.000	3,967.000	3,878.000	3,788.000	3,698.000
22.000	3,608.000	3,518.000	3,427.000	3,336.000	3,245.000
22.250	3,153.000	3,061.000	2,969.000	2,877.000	2,785.000
22.500	2,692.000	2,600.000	2,507.000	2,413.000	2,320.000
22.750	2,226.000	2,132.000	2,038.000	1,944.000	1,849.000
23.000	1,754.000	1,659.000	1,563.000	1,467.000	1,370.000
23.250	1,274.000	1,177.000	1,080.000	983.000	886.000
23.500	788.000	690.000	592.000	493.000	395.000
23.750	296.000	197.000	97.000	0.000	0.000
24.000	0.000	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time vs. Volume | Return Event: 100 years
Label: UI-1B | Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)	Volume (ft^3)
0.000	0.000	0.000	0.000	0.000	0.000
0.250	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.250	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
1.750	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume Return Event: 100 years
Label: UI-1B Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
2.250	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
2.750	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.250	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
3.750	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.250	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
4.750	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.250	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
5.750	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.250	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
6.750	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.250	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
7.750	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.250	0.000	0.000	0.000	4.000	11.000
8.500	21.000	35.000	52.000	73.000	97.000
8.750	125.000	156.000	191.000	229.000	271.000
9.000	317.000	366.000	419.000	475.000	535.000
9.250	599.000	667.000	738.000	813.000	891.000
9.500	974.000	1,060.000	1,150.000	1,243.000	1,341.000
9.750	1,442.000	1,547.000	1,656.000	1,768.000	1,885.000
10.000	2,005.000	2,129.000	2,258.000	2,393.000	2,534.000
10.250	2,682.000	2,838.000	3,001.000	3,172.000	3,350.000
10.500	3,535.000	3,728.000	3,928.000	4,136.000	4,350.000
10.750	4,572.000	4,802.000	5,040.000	5,285.000	5,538.000
11.000	5,799.000	6,069.000	6,351.000	6,653.000	6,977.000
11.250	7,329.000	7,707.000	8,112.000	8,545.000	9,007.000
11.500	9,496.000	10,033.000	10,670.000	11,333.000	11,845.000
11.750	12,130.000	12,274.000	12,382.000	12,513.000	12,820.000
12.000	13,449.000	13,449.000	13,449.000	13,449.000	13,449.000
12.250	13,449.000	13,156.000	12,620.000	12,141.000	11,891.000
12.500	11,801.000	11,718.000	11,588.000	11,467.000	11,408.000
12.750	11,411.000	11,424.000	11,415.000	11,390.000	11,367.000
13.000	11,352.000	11,341.000	11,324.000	11,302.000	11,282.000
13.250	11,265.000	11,252.000	11,240.000	11,228.000	11,216.000

Proposed Hydrologic Calculations Report

Subsection: Time vs. Volume | Return Event: 100 years
Label: UI-1B | Storm Event: 100 year
Scenario: Post-Development 100 year

Time vs. Volume (ft³)

Output Time increment = 0.050 hours
Time on left represents time for first value in each row.

Time (hours)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)	Volume (ft³)
13.500	11,204.000	11,191.000	11,178.000	11,165.000	11,151.000
13.750	11,138.000	11,124.000	11,110.000	11,095.000	11,080.000
14.000	11,065.000	11,050.000	11,036.000	11,022.000	11,010.000
14.250	10,999.000	10,990.000	10,980.000	10,971.000	10,961.000
14.500	10,951.000	10,940.000	10,930.000	10,919.000	10,908.000
14.750	10,897.000	10,887.000	10,876.000	10,866.000	10,856.000
15.000	10,847.000	10,838.000	10,829.000	10,821.000	10,813.000
15.250	10,805.000	10,797.000	10,789.000	10,781.000	10,773.000
15.500	10,765.000	10,758.000	10,750.000	10,742.000	10,735.000
15.750	10,727.000	10,720.000	10,713.000	10,706.000	10,698.000
16.000	10,691.000	10,684.000	10,678.000	10,672.000	10,667.000
16.250	10,663.000	10,659.000	10,656.000	10,653.000	10,650.000
16.500	10,647.000	10,644.000	10,641.000	10,638.000	10,635.000
16.750	10,633.000	10,630.000	10,627.000	10,624.000	10,621.000
17.000	10,616.000	10,609.000	10,601.000	10,592.000	10,581.000
17.250	10,568.000	10,554.000	10,538.000	10,521.000	10,502.000
17.500	10,482.000	10,460.000	10,437.000	10,412.000	10,386.000
17.750	10,358.000	10,329.000	10,298.000	10,265.000	10,231.000
18.000	10,198.000	10,167.000	10,139.000	10,112.000	10,086.000
18.250	10,057.000	10,026.000	9,990.000	9,949.000	9,907.000
18.500	9,864.000	9,821.000	9,777.000	9,733.000	9,689.000
18.750	9,644.000	9,598.000	9,553.000	9,506.000	9,459.000
19.000	9,412.000	9,364.000	9,316.000	9,268.000	9,219.000
19.250	9,169.000	9,119.000	9,069.000	9,018.000	8,967.000
19.500	8,919.000	8,879.000	8,845.000	8,815.000	8,787.000
19.750	8,759.000	8,729.000	8,698.000	8,663.000	8,623.000
20.000	8,575.000	8,521.000	8,463.000	8,405.000	8,347.000
20.250	8,289.000	8,230.000	8,171.000	8,112.000	8,052.000
20.500	7,992.000	7,931.000	7,870.000	7,809.000	7,748.000
20.750	7,686.000	7,623.000	7,561.000	7,500.000	7,450.000
21.000	7,414.000	7,384.000	7,356.000	7,329.000	7,302.000
21.250	7,274.000	7,245.000	7,213.000	7,177.000	7,135.000
21.500	7,085.000	7,023.000	6,955.000	6,887.000	6,819.000
21.750	6,750.000	6,681.000	6,611.000	6,542.000	6,471.000
22.000	6,401.000	6,330.000	6,259.000	6,187.000	6,116.000
22.250	6,043.000	5,971.000	5,898.000	5,831.000	5,776.000
22.500	5,726.000	5,679.000	5,629.000	5,577.000	5,517.000
22.750	5,447.000	5,371.000	5,294.000	5,217.000	5,140.000
23.000	5,062.000	4,985.000	4,906.000	4,828.000	4,749.000
23.250	4,669.000	4,590.000	4,510.000	4,430.000	4,350.000
23.500	4,269.000	4,188.000	4,106.000	4,025.000	3,942.000
23.750	3,860.000	3,777.000	3,694.000	3,610.000	3,525.000
24.000	3,441.000	(N/A)	(N/A)	(N/A)	(N/A)

Proposed Hydrologic Calculations Report

Subsection: Elevation-Area Volume Curve — Return Event: 1 years
Label: IB-1C — Storm Event: 1 year
Scenario: Post-Development 1 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
212.00	0.0	0.070	0.000	0.000
214.00	0.0	0.097	0.249	7,239.000

Volume (Total) (ft³)
0.000
7,239.000

Subsection: Elevation-Area Volume Curve — Return Event: 2 years
Label: IB-1C — Storm Event: 2 year
Scenario: Post-Development 2 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
212.00	0.0	0.070	0.000	0.000
214.00	0.0	0.097	0.249	7,239.000

Volume (Total) (ft³)
0.000
7,239.000

Subsection: Elevation-Area Volume Curve — Return Event: 10 years
Label: IB-1C — Storm Event: 10 year
Scenario: Post-Development 10 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
212.00	0.0	0.070	0.000	0.000
214.00	0.0	0.097	0.249	7,239.000

Volume (Total) (ft³)
0.000
7,239.000

Subsection: Elevation-Area Volume Curve — Return Event: 25 years
Label: IB-1C — Storm Event: 25 year
Scenario: Post-Development 25 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
212.00	0.0	0.070	0.000	0.000
214.00	0.0	0.097	0.249	7,239.000

Volume (Total) (ft³)
0.000
7,239.000

Subsection: Elevation-Area Volume Curve — Return Event: 100 years
Label: IB-1C — Storm Event: 100 year
Scenario: Post-Development 100 year

Proposed Hydrologic Calculations Report

Subsection: Elevation-Area Volume Curve | Return Event: 100 years
Label: IB-1C | Storm Event: 100 year
Scenario: Post-Development 100 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
212.00	0.0	0.070	0.000	0.000
214.00	0.0	0.097	0.249	7,239.000

Volume (Total) (ft³)
0.000
7,239.000

Subsection: Elevation-Area Volume Curve | Return Event: 1 years
Label: IB-1D | Storm Event: 1 year
Scenario: Post-Development 1 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
214.00	0.0	0.135	0.000	0.000
216.00	0.0	0.176	0.465	13,506.000
218.00	0.0	0.221	0.594	17,247.000
220.00	0.0	0.270	0.734	21,329.000

Volume (Total) (ft³)
0.000
13,506.000
30,753.000
52,082.000

Subsection: Elevation-Area Volume Curve | Return Event: 2 years
Label: IB-1D | Storm Event: 2 year
Scenario: Post-Development 2 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
214.00	0.0	0.135	0.000	0.000
216.00	0.0	0.176	0.465	13,506.000
218.00	0.0	0.221	0.594	17,247.000
220.00	0.0	0.270	0.734	21,329.000

Volume (Total) (ft³)
0.000
13,506.000
30,753.000
52,082.000

Subsection: Elevation-Area Volume Curve | Return Event: 10 years
Label: IB-1D | Storm Event: 10 year
Scenario: Post-Development 10 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
214.00	0.0	0.135	0.000	0.000
216.00	0.0	0.176	0.465	13,506.000

Proposed Hydrologic Calculations Report

Subsection: Elevation-Area Volume Curve
Return Event: 10 years
Label: IB-1D
Storm Event: 10 year
Scenario: Post-Development 10 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
218.00	0.0	0.221	0.594	17,247.000
220.00	0.0	0.270	0.734	21,329.000

Volume (Total) (ft³)
0.000
13,506.000
30,753.000
52,082.000

Subsection: Elevation-Area Volume Curve
Return Event: 25 years
Label: IB-1D
Storm Event: 25 year
Scenario: Post-Development 25 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
214.00	0.0	0.135	0.000	0.000
216.00	0.0	0.176	0.465	13,506.000
218.00	0.0	0.221	0.594	17,247.000
220.00	0.0	0.270	0.734	21,329.000

Volume (Total) (ft³)
0.000
13,506.000
30,753.000
52,082.000

Subsection: Elevation-Area Volume Curve
Return Event: 100 years
Label: IB-1D
Storm Event: 100 year
Scenario: Post-Development 100 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
214.00	0.0	0.135	0.000	0.000
216.00	0.0	0.176	0.465	13,506.000
218.00	0.0	0.221	0.594	17,247.000
220.00	0.0	0.270	0.734	21,329.000

Volume (Total) (ft³)
0.000
13,506.000
30,753.000
52,082.000

Subsection: Elevation-Area Volume Curve
Return Event: 1 years
Label: IB-1E
Storm Event: 1 year
Scenario: Post-Development 1 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)

Proposed Hydrologic Calculations Report

Subsection: Elevation-Area Volume Curve — Return Event: 1 years
Label: IB-1E — Storm Event: 1 year
Scenario: Post-Development 1 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
238.00	0.0	0.191	0.000	0.000
240.00	0.0	0.243	0.648	18,831.000
242.00	0.0	0.299	0.811	23,563.000
244.00	0.0	0.360	0.988	28,694.000

Volume (Total) (ft³)
0.000
18,831.000
42,394.000
71,087.000

Subsection: Elevation-Area Volume Curve — Return Event: 2 years
Label: IB-1E — Storm Event: 2 year
Scenario: Post-Development 2 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
238.00	0.0	0.191	0.000	0.000
240.00	0.0	0.243	0.648	18,831.000
242.00	0.0	0.299	0.811	23,563.000
244.00	0.0	0.360	0.988	28,694.000

Volume (Total) (ft³)
0.000
18,831.000
42,394.000
71,087.000

Subsection: Elevation-Area Volume Curve — Return Event: 10 years
Label: IB-1E — Storm Event: 10 year
Scenario: Post-Development 10 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
238.00	0.0	0.191	0.000	0.000
240.00	0.0	0.243	0.648	18,831.000
242.00	0.0	0.299	0.811	23,563.000
244.00	0.0	0.360	0.988	28,694.000

Volume (Total) (ft³)
0.000
18,831.000
42,394.000
71,087.000

Subsection: Elevation-Area Volume Curve — Return Event: 25 years
Label: IB-1E — Storm Event: 25 year
Scenario: Post-Development 25 year

Proposed Hydrologic Calculations Report

Subsection: Elevation-Area Volume Curve
Label: IB-1E
Scenario: Post-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
238.00	0.0	0.191	0.000	0.000
240.00	0.0	0.243	0.648	18,831.000
242.00	0.0	0.299	0.811	23,563.000
244.00	0.0	0.360	0.988	28,694.000

Volume (Total) (ft³)
0.000
18,831.000
42,394.000
71,087.000

Subsection: Elevation-Area Volume Curve
Label: IB-1E
Scenario: Post-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
238.00	0.0	0.191	0.000	0.000
240.00	0.0	0.243	0.648	18,831.000
242.00	0.0	0.299	0.811	23,563.000
244.00	0.0	0.360	0.988	28,694.000

Volume (Total) (ft³)
0.000
18,831.000
42,394.000
71,087.000

Subsection: Elevation-Area Volume Curve
Label: OCS-1B
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
201.20	0.0	0.000	0.000	0.000
211.50	0.0	0.000	0.001	129.000

Volume (Total) (ft³)
0.000
129.000

Subsection: Elevation-Area Volume Curve
Label: OCS-1B
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
201.20	0.0	0.000	0.000	0.000
211.50	0.0	0.000	0.001	129.000

Proposed Hydrologic Calculations Report

Subsection: Elevation-Area Volume Curve — Return Event: 2 years
Label: OCS-1B — Storm Event: 2 year
Scenario: Post-Development 2 year

Volume (Total) (ft³)
0.000
129.000

Subsection: Elevation-Area Volume Curve — Return Event: 10 years
Label: OCS-1B — Storm Event: 10 year
Scenario: Post-Development 10 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
201.20	0.0	0.000	0.000	0.000
211.50	0.0	0.000	0.001	129.000

Volume (Total) (ft³)
0.000
129.000

Subsection: Elevation-Area Volume Curve — Return Event: 25 years
Label: OCS-1B — Storm Event: 25 year
Scenario: Post-Development 25 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
201.20	0.0	0.000	0.000	0.000
211.50	0.0	0.000	0.001	129.000

Volume (Total) (ft³)
0.000
129.000

Subsection: Elevation-Area Volume Curve — Return Event: 100 years
Label: OCS-1B — Storm Event: 100 year
Scenario: Post-Development 100 year

Elevation (ft)	Planimeter (ft²)	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ft³)
201.20	0.0	0.000	0.000	0.000
211.50	0.0	0.000	0.001	129.000

Volume (Total) (ft³)
0.000
129.000

Subsection: Elevation vs. Volume Curve — Return Event: 1 years
Label: UI-1B — Storm Event: 1 year
Scenario: Post-Development 1 year

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ft³)
202.50	0.000

Proposed Hydrologic Calculations Report

Subsection: Elevation vs. Volume Curve — Return Event: 1 years
Label: UI-1B — Storm Event: 1 year
Scenario: Post-Development 1 year

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ft^3)
203.25	1,170.960
203.50	2,025.840
203.75	2,872.000
204.00	3,708.000
204.25	4,533.000
204.50	5,345.000
204.75	6,141.000
205.00	6,920.000
205.25	7,677.000
205.50	8,410.000
205.75	9,115.000
206.00	9,785.000
206.25	10,415.000
206.50	10,991.000
206.75	11,473.000
207.00	11,888.000
208.00	13,449.000

Subsection: Elevation vs. Volume Curve — Return Event: 2 years
Label: UI-1B — Storm Event: 2 year
Scenario: Post-Development 2 year

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ft^3)
202.50	0.000
203.25	1,170.960
203.50	2,025.840
203.75	2,872.000
204.00	3,708.000
204.25	4,533.000
204.50	5,345.000
204.75	6,141.000
205.00	6,920.000
205.25	7,677.000
205.50	8,410.000
205.75	9,115.000
206.00	9,785.000
206.25	10,415.000
206.50	10,991.000
206.75	11,473.000
207.00	11,888.000
208.00	13,449.000

Proposed Hydrologic Calculations Report

Subsection: Elevation vs. Volume Curve | Return Event: 10 years
Label: UI-1B | Storm Event: 10 year
Scenario: Post-Development 10 year

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ft³)
202.50	0.000
203.25	1,170.960
203.50	2,025.840
203.75	2,872.000
204.00	3,708.000
204.25	4,533.000
204.50	5,345.000
204.75	6,141.000
205.00	6,920.000
205.25	7,677.000
205.50	8,410.000
205.75	9,115.000
206.00	9,785.000
206.25	10,415.000
206.50	10,991.000
206.75	11,473.000
207.00	11,888.000
208.00	13,449.000

Subsection: Elevation vs. Volume Curve | Return Event: 25 years
Label: UI-1B | Storm Event: 25 year
Scenario: Post-Development 25 year

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ft³)
202.50	0.000
203.25	1,170.960
203.50	2,025.840
203.75	2,872.000
204.00	3,708.000
204.25	4,533.000
204.50	5,345.000
204.75	6,141.000
205.00	6,920.000
205.25	7,677.000
205.50	8,410.000
205.75	9,115.000
206.00	9,785.000
206.25	10,415.000
206.50	10,991.000
206.75	11,473.000
207.00	11,888.000
208.00	13,449.000

Proposed Hydrologic Calculations Report

Subsection: Elevation vs. Volume Curve | Return Event: 100 years
Label: UI-1B | Storm Event: 100 year
Scenario: Post-Development 100 year

Elevation-Volume

Pond Elevation (ft)	Pond Volume (ft^3)
202.50	0.000
203.25	1,170.960
203.50	2,025.840
203.75	2,872.000
204.00	3,708.000
204.25	4,533.000
204.50	5,345.000
204.75	6,141.000
205.00	6,920.000
205.25	7,677.000
205.50	8,410.000
205.75	9,115.000
206.00	9,785.000
206.25	10,415.000
206.50	10,991.000
206.75	11,473.000
207.00	11,888.000
208.00	13,449.000

Subsection: Composite Rating Curve | Return Event: 1 years
Label: OS-1B by | Storm Event: 1 year
Scenario: Post-Development 1 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	(N/A)	0.00
201.70	0.00	(N/A)	0.00
202.20	0.00	(N/A)	0.00
202.70	0.00	(N/A)	0.00
203.20	0.00	(N/A)	0.00
203.25	0.00	(N/A)	0.00
203.70	0.00	(N/A)	0.00
204.20	0.00	(N/A)	0.00
204.70	0.00	(N/A)	0.00
205.20	0.00	(N/A)	0.00
205.70	0.00	(N/A)	0.00
206.20	0.00	(N/A)	0.00
206.40	0.00	(N/A)	0.00
206.70	1.97	(N/A)	0.00
207.20	8.59	(N/A)	0.00
207.70	14.44	(N/A)	0.00
208.20	15.44	(N/A)	0.00
208.70	16.13	(N/A)	0.00
209.20	16.74	(N/A)	0.00
209.70	17.30	(N/A)	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve — Return Event: 1 years
Label: OS-1B by — Storm Event: 1 year
Scenario: Post-Development 1 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
210.20	17.84	(N/A)	0.00
210.70	18.35	(N/A)	0.00
211.20	18.85	(N/A)	0.00
211.50	19.14	(N/A)	0.00

Contributing Structures
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B

Subsection: Composite Rating Curve — Return Event: 2 years
Label: OS-1B by — Storm Event: 2 year
Scenario: Post-Development 2 year

Composite Outflow Summary

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B by
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	(N/A)	0.00
201.70	0.00	(N/A)	0.00
202.20	0.00	(N/A)	0.00
202.70	0.00	(N/A)	0.00
203.20	0.00	(N/A)	0.00
203.25	0.00	(N/A)	0.00
203.70	0.00	(N/A)	0.00
204.20	0.00	(N/A)	0.00
204.70	0.00	(N/A)	0.00
205.20	0.00	(N/A)	0.00
205.70	0.00	(N/A)	0.00
206.20	0.00	(N/A)	0.00
206.40	0.00	(N/A)	0.00
206.70	1.97	(N/A)	0.00
207.20	8.59	(N/A)	0.00
207.70	14.44	(N/A)	0.00
208.20	15.44	(N/A)	0.00
208.70	16.13	(N/A)	0.00
209.20	16.74	(N/A)	0.00
209.70	17.30	(N/A)	0.00
210.20	17.84	(N/A)	0.00
210.70	18.35	(N/A)	0.00
211.20	18.85	(N/A)	0.00
211.50	19.14	(N/A)	0.00

Contributing Structures
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve — Return Event: 2 years
Label: OS-1B by — Storm Event: 2 year
Scenario: Post-Development 2 year

Composite Outflow Summary

Contributing Structures
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B

Subsection: Composite Rating Curve — Return Event: 10 years
Label: OS-1B by — Storm Event: 10 year
Scenario: Post-Development 10 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	(N/A)	0.00
201.70	0.00	(N/A)	0.00
202.20	0.00	(N/A)	0.00
202.70	0.00	(N/A)	0.00
203.20	0.00	(N/A)	0.00
203.25	0.00	(N/A)	0.00
203.70	0.00	(N/A)	0.00
204.20	0.00	(N/A)	0.00
204.70	0.00	(N/A)	0.00
205.20	0.00	(N/A)	0.00
205.70	0.00	(N/A)	0.00
206.20	0.00	(N/A)	0.00
206.40	0.00	(N/A)	0.00
206.70	1.97	(N/A)	0.00
207.20	8.59	(N/A)	0.00
207.70	14.44	(N/A)	0.00
208.20	15.44	(N/A)	0.00
208.70	16.13	(N/A)	0.00
209.20	16.74	(N/A)	0.00
209.70	17.30	(N/A)	0.00
210.20	17.84	(N/A)	0.00
210.70	18.35	(N/A)	0.00
211.20	18.85	(N/A)	0.00
211.50	19.14	(N/A)	0.00

Contributing Structures

Subsection: Composite Rating Curve
Label: OS-1B by
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Composite Outflow Summary

Contributing Structures
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B

Subsection: Composite Rating Curve
Label: OS-1B by
Scenario: Post-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	(N/A)	0.00
201.70	0.00	(N/A)	0.00
202.20	0.00	(N/A)	0.00
202.70	0.00	(N/A)	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 25 years
Label: OS-1B by | Storm Event: 25 year
Scenario: Post-Development 25 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
203.20	0.00	(N/A)	0.00
203.25	0.00	(N/A)	0.00
203.70	0.00	(N/A)	0.00
204.20	0.00	(N/A)	0.00
204.70	0.00	(N/A)	0.00
205.20	0.00	(N/A)	0.00
205.70	0.00	(N/A)	0.00
206.20	0.00	(N/A)	0.00
206.40	0.00	(N/A)	0.00
206.70	1.97	(N/A)	0.00
207.20	8.59	(N/A)	0.00
207.70	14.44	(N/A)	0.00
208.20	15.44	(N/A)	0.00
208.70	16.13	(N/A)	0.00
209.20	16.74	(N/A)	0.00
209.70	17.30	(N/A)	0.00
210.20	17.84	(N/A)	0.00
210.70	18.35	(N/A)	0.00
211.20	18.85	(N/A)	0.00
211.50	19.14	(N/A)	0.00

Contributing Structures
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
Weir - 1B,Culvert - 1B

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 25 years
Label: OS-1B by | Storm Event: 25 year
Scenario: Post-Development 25 year

Composite Outflow Summary

Contributing Structures
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B

Subsection: Composite Rating Curve | Return Event: 100 years
Label: OS-1B by | Storm Event: 100 year
Scenario: Post-Development 100 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	(N/A)	0.00
201.70	0.00	(N/A)	0.00
202.20	0.00	(N/A)	0.00
202.70	0.00	(N/A)	0.00
203.20	0.00	(N/A)	0.00
203.25	0.00	(N/A)	0.00
203.70	0.00	(N/A)	0.00
204.20	0.00	(N/A)	0.00
204.70	0.00	(N/A)	0.00
205.20	0.00	(N/A)	0.00
205.70	0.00	(N/A)	0.00
206.20	0.00	(N/A)	0.00
206.40	0.00	(N/A)	0.00
206.70	1.97	(N/A)	0.00
207.20	8.59	(N/A)	0.00
207.70	14.44	(N/A)	0.00
208.20	15.44	(N/A)	0.00
208.70	16.13	(N/A)	0.00
209.20	16.74	(N/A)	0.00
209.70	17.30	(N/A)	0.00
210.20	17.84	(N/A)	0.00
210.70	18.35	(N/A)	0.00
211.20	18.85	(N/A)	0.00
211.50	19.14	(N/A)	0.00

Contributing Structures
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)

Subsection: Composite Rating Curve
Label: OS-1B by
Scenario: Post-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Composite Outflow Summary

Contributing Structures
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
(no Q: Weir - 1B,Culvert - 1B)
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B
Weir - 1B,Culvert - 1B

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	202.50	0.00
201.70	0.00	202.50	0.00
202.20	0.00	202.50	0.00
202.50	0.00	202.50	0.00
202.70	0.00	202.50	0.00
203.00	0.00	202.50	0.00
203.20	0.00	202.50	0.00
203.25	0.00	202.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
203.50	0.16	202.50	0.00
203.70	0.57	202.50	0.00
204.00	1.65	202.50	0.00
204.20	2.59	202.50	0.00
204.50	4.28	202.50	0.00
204.70	5.51	202.50	0.00
205.00	7.33	202.50	0.00
205.20	8.42	202.50	0.00
205.50	9.85	202.50	0.00
205.70	10.76	202.50	0.00
206.00	12.06	202.50	0.00
206.20	12.86	202.50	0.00
206.50	14.01	202.50	0.00
206.70	14.74	202.50	0.00
207.00	15.77	202.50	0.00
207.20	16.45	202.50	0.00
207.50	17.40	202.50	0.00
207.70	18.02	202.50	0.00
208.00	18.89	202.50	0.00
208.20	19.45	202.50	0.00
208.70	20.81	202.50	0.00
209.20	22.08	202.50	0.00
209.70	23.28	202.50	0.00
210.20	24.42	202.50	0.00
210.70	25.52	202.50	0.00
211.20	26.57	202.50	0.00
211.50	27.18	202.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
None Contributing
None Contributing
None Contributing
None Contributing
None Contributing
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 1 years
Label: OS-1B inf | Storm Event: 1 year
Scenario: Post-Development 1 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	203.00	0.00
201.70	0.00	203.00	0.00
202.20	0.00	203.00	0.00
202.50	0.00	203.00	0.00
202.70	0.00	203.00	0.00
203.00	0.00	203.00	0.00
203.20	0.00	203.00	0.00
203.25	0.00	203.00	0.00
203.50	0.16	203.00	0.00
203.70	0.57	203.00	0.00
204.00	1.65	203.00	0.00
204.20	2.59	203.00	0.00
204.50	4.28	203.00	0.00
204.70	5.51	203.00	0.00
205.00	7.33	203.00	0.00
205.20	8.42	203.00	0.00
205.50	9.85	203.00	0.00
205.70	10.76	203.00	0.00
206.00	12.06	203.00	0.00
206.20	12.86	203.00	0.00
206.50	14.01	203.00	0.00
206.70	14.74	203.00	0.00
207.00	15.77	203.00	0.00
207.20	16.45	203.00	0.00
207.50	17.40	203.00	0.00
207.70	18.02	203.00	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
208.00	18.89	203.00	0.00
208.20	19.45	203.00	0.00
208.70	20.81	203.00	0.00
209.20	22.08	203.00	0.00
209.70	23.28	203.00	0.00
210.20	24.42	203.00	0.00
210.70	25.52	203.00	0.00
211.20	26.57	203.00	0.00
211.50	27.18	203.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
None Contributing
None Contributing
None Contributing
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	203.25	0.00
201.70	0.00	203.25	0.00
202.20	0.00	203.25	0.00
202.50	0.00	203.25	0.00
202.70	0.00	203.25	0.00
203.00	0.00	203.25	0.00
203.20	0.00	203.25	0.00
203.25	0.00	203.25	0.00
203.50	0.16	203.25	0.00
203.70	0.57	203.25	0.00
204.00	1.65	203.25	0.00
204.20	2.59	203.25	0.00
204.50	4.28	203.25	0.00
204.70	5.51	203.25	0.00
205.00	7.33	203.25	0.00
205.20	8.42	203.25	0.00
205.50	9.85	203.25	0.00
205.70	10.76	203.25	0.00
206.00	12.06	203.25	0.00
206.20	12.86	203.25	0.00
206.50	14.01	203.25	0.00
206.70	14.74	203.25	0.00
207.00	15.77	203.25	0.00
207.20	16.45	203.25	0.00
207.50	17.40	203.25	0.00
207.70	18.02	203.25	0.00
208.00	18.89	203.25	0.00
208.20	19.45	203.25	0.00
208.70	20.81	203.25	0.00
209.20	22.08	203.25	0.00
209.70	23.28	203.25	0.00
210.20	24.42	203.25	0.00
210.70	25.52	203.25	0.00
211.20	26.57	203.25	0.00
211.50	27.18	203.25	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
None Contributing
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-0.16	203.50	0.00
201.70	-0.16	203.50	0.00
202.20	-0.16	203.50	0.00
202.50	-0.16	203.50	0.00
202.70	-0.16	203.50	0.00
203.00	-0.16	203.50	0.00
203.20	-0.16	203.50	0.00
203.25	-0.16	203.50	0.00
203.50	0.00	203.50	0.00
203.70	0.57	203.50	0.00
204.00	1.65	203.50	0.00
204.20	2.59	203.50	0.00
204.50	4.28	203.50	0.00
204.70	5.51	203.50	0.00
205.00	7.33	203.50	0.00
205.20	8.42	203.50	0.00
205.50	9.85	203.50	0.00
205.70	10.76	203.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
206.00	12.06	203.50	0.00
206.20	12.86	203.50	0.00
206.50	14.01	203.50	0.00
206.70	14.74	203.50	0.00
207.00	15.77	203.50	0.00
207.20	16.45	203.50	0.00
207.50	17.40	203.50	0.00
207.70	18.02	203.50	0.00
208.00	18.89	203.50	0.00
208.20	19.45	203.50	0.00
208.70	20.81	203.50	0.00
209.20	22.08	203.50	0.00
209.70	23.28	203.50	0.00
210.20	24.42	203.50	0.00
210.70	25.52	203.50	0.00
211.20	26.57	203.50	0.00
211.50	27.18	203.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve — Return Event: 1 years
Label: OS-1B inf — Storm Event: 1 year
Scenario: Post-Development 1 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-1.65	204.00	0.00
201.70	-1.65	204.00	0.00
202.20	-1.65	204.00	0.00
202.50	-1.65	204.00	0.00
202.70	-1.65	204.00	0.00
203.00	-1.65	204.00	0.00
203.20	-1.65	204.00	0.00
203.25	-1.65	204.00	0.00
203.50	-1.65	204.00	0.00
203.70	-1.65	204.00	0.00
204.00	0.00	204.00	0.00
204.20	2.46	204.00	0.00
204.50	4.28	204.00	0.00
204.70	5.51	204.00	0.00
205.00	7.33	204.00	0.00
205.20	8.42	204.00	0.00
205.50	9.85	204.00	0.00
205.70	10.76	204.00	0.00
206.00	12.06	204.00	0.00
206.20	12.86	204.00	0.00
206.50	14.01	204.00	0.00
206.70	14.74	204.00	0.00
207.00	15.77	204.00	0.00
207.20	16.45	204.00	0.00
207.50	17.40	204.00	0.00
207.70	18.02	204.00	0.00
208.00	18.89	204.00	0.00
208.20	19.45	204.00	0.00
208.70	20.81	204.00	0.00
209.20	22.08	204.00	0.00
209.70	23.28	204.00	0.00
210.20	24.42	204.00	0.00
210.70	25.52	204.00	0.00
211.20	26.57	204.00	0.00
211.50	27.18	204.00	0.00

Contributing Structures

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
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Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-4.28	204.50	0.00
201.70	-4.28	204.50	0.00
202.20	-4.28	204.50	0.00
202.50	-4.28	204.50	0.00
202.70	-4.28	204.50	0.00
203.00	-4.28	204.50	0.00
203.20	-4.28	204.50	0.00
203.25	-4.28	204.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 1 years
Label: OS-1B inf | Storm Event: 1 year
Scenario: Post-Development 1 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
203.50	-4.28	204.50	0.00
203.70	-4.28	204.50	0.00
204.00	-4.28	204.50	0.00
204.20	-4.11	204.50	0.00
204.50	0.00	204.50	0.00
204.70	4.39	204.50	0.00
205.00	7.02	204.50	0.00
205.20	8.29	204.50	0.00
205.50	9.84	204.50	0.00
205.70	10.76	204.50	0.00
206.00	12.06	204.50	0.00
206.20	12.86	204.50	0.00
206.50	14.01	204.50	0.00
206.70	14.74	204.50	0.00
207.00	15.77	204.50	0.00
207.20	16.45	204.50	0.00
207.50	17.40	204.50	0.00
207.70	18.02	204.50	0.00
208.00	18.89	204.50	0.00
208.20	19.45	204.50	0.00
208.70	20.81	204.50	0.00
209.20	22.08	204.50	0.00
209.70	23.28	204.50	0.00
210.20	24.42	204.50	0.00
210.70	25.52	204.50	0.00
211.20	26.57	204.50	0.00
211.50	27.18	204.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 1 years
Label: OS-1B inf | Storm Event: 1 year
Scenario: Post-Development 1 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-7.33	205.00	0.00
201.70	-7.33	205.00	0.00
202.20	-7.33	205.00	0.00
202.50	-7.33	205.00	0.00
202.70	-7.33	205.00	0.00
203.00	-7.33	205.00	0.00
203.20	-7.33	205.00	0.00
203.25	-7.33	205.00	0.00
203.50	-7.33	205.00	0.00
203.70	-7.33	205.00	0.00
204.00	-7.33	205.00	0.00
204.20	-7.33	205.00	0.00
204.50	-7.03	205.00	0.00
204.70	-5.75	205.00	0.00
205.00	0.00	205.00	0.00
205.20	4.68	205.00	0.00
205.50	7.39	205.00	0.00
205.70	8.75	205.00	0.00
206.00	10.46	205.00	0.00
206.20	11.45	205.00	0.00
206.50	12.81	205.00	0.00
206.70	13.64	205.00	0.00
207.00	14.79	205.00	0.00
207.20	15.51	205.00	0.00
207.50	16.53	205.00	0.00
207.70	17.18	205.00	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 1 years
Label: OS-1B inf | Storm Event: 1 year
Scenario: Post-Development 1 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
208.00	18.11	205.00	0.00
208.20	18.70	205.00	0.00
208.70	20.11	205.00	0.00
209.20	21.43	205.00	0.00
209.70	22.67	205.00	0.00
210.20	23.85	205.00	0.00
210.70	24.97	205.00	0.00
211.20	26.04	205.00	0.00
211.50	26.66	205.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 1 years
Label: OS-1B inf | Storm Event: 1 year
Scenario: Post-Development 1 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-9.85	205.50	0.00
201.70	-9.85	205.50	0.00
202.20	-9.85	205.50	0.00
202.50	-9.85	205.50	0.00
202.70	-9.85	205.50	0.00
203.00	-9.85	205.50	0.00
203.20	-9.85	205.50	0.00
203.25	-9.85	205.50	0.00
203.50	-9.85	205.50	0.00
203.70	-9.85	205.50	0.00
204.00	-9.85	205.50	0.00
204.20	-9.85	205.50	0.00
204.50	-9.85	205.50	0.00
204.70	-9.32	205.50	0.00
205.00	-7.39	205.50	0.00
205.20	-5.72	205.50	0.00
205.50	0.00	205.50	0.00
205.70	4.67	205.50	0.00
206.00	7.39	205.50	0.00
206.20	8.75	205.50	0.00
206.50	10.46	205.50	0.00
206.70	11.46	205.50	0.00
207.00	12.81	205.50	0.00
207.20	13.64	205.50	0.00
207.50	14.79	205.50	0.00
207.70	15.51	205.50	0.00
208.00	16.54	205.50	0.00
208.20	17.19	205.50	0.00
208.70	18.71	205.50	0.00
209.20	20.11	205.50	0.00
209.70	21.43	205.50	0.00
210.20	22.67	205.50	0.00
210.70	23.85	205.50	0.00
211.20	24.97	205.50	0.00
211.50	25.62	205.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-12.05	206.00	0.00
201.70	-12.05	206.00	0.00
202.20	-12.05	206.00	0.00
202.50	-12.05	206.00	0.00
202.70	-12.05	206.00	0.00
203.00	-12.05	206.00	0.00
203.20	-12.05	206.00	0.00
203.25	-12.05	206.00	0.00
203.50	-12.05	206.00	0.00
203.70	-12.05	206.00	0.00
204.00	-12.05	206.00	0.00
204.20	-12.05	206.00	0.00
204.50	-12.05	206.00	0.00
204.70	-11.87	206.00	0.00
205.00	-10.45	206.00	0.00
205.20	-9.36	206.00	0.00
205.50	-7.39	206.00	0.00
205.70	-5.72	206.00	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
206.00	0.00	206.00	0.00
206.20	4.68	206.00	0.00
206.50	7.40	206.00	0.00
206.70	8.74	206.00	0.00
207.00	10.46	206.00	0.00
207.20	11.45	206.00	0.00
207.50	12.81	206.00	0.00
207.70	13.64	206.00	0.00
208.00	14.79	206.00	0.00
208.20	15.51	206.00	0.00
208.70	17.18	206.00	0.00
209.20	18.70	206.00	0.00
209.70	20.12	206.00	0.00
210.20	21.43	206.00	0.00
210.70	22.67	206.00	0.00
211.20	23.85	206.00	0.00
211.50	24.53	206.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
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Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 1 years
Label: OS-1B inf | Storm Event: 1 year
Scenario: Post-Development 1 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-14.01	206.50	0.00
201.70	-14.01	206.50	0.00
202.20	-14.01	206.50	0.00
202.50	-14.01	206.50	0.00
202.70	-14.01	206.50	0.00
203.00	-14.01	206.50	0.00
203.20	-14.01	206.50	0.00
203.25	-14.01	206.50	0.00
203.50	-14.01	206.50	0.00
203.70	-14.01	206.50	0.00
204.00	-14.01	206.50	0.00
204.20	-14.01	206.50	0.00
204.50	-14.01	206.50	0.00
204.70	-13.95	206.50	0.00
205.00	-12.81	206.50	0.00
205.20	-11.92	206.50	0.00
205.50	-10.45	206.50	0.00
205.70	-9.36	206.50	0.00
206.00	-7.39	206.50	0.00
206.20	-5.72	206.50	0.00
206.50	0.00	206.50	0.00
206.70	4.67	206.50	0.00
207.00	7.39	206.50	0.00
207.20	8.75	206.50	0.00
207.50	10.46	206.50	0.00
207.70	11.46	206.50	0.00
208.00	12.81	206.50	0.00
208.20	13.64	206.50	0.00
208.70	15.51	206.50	0.00
209.20	17.19	206.50	0.00
209.70	18.71	206.50	0.00
210.20	20.12	206.50	0.00
210.70	21.43	206.50	0.00
211.20	22.67	206.50	0.00
211.50	23.38	206.50	0.00

Contributing Structures

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 1 years
Label: OS-1B inf | Storm Event: 1 year
Scenario: Post-Development 1 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-15.77	207.00	0.00
201.70	-15.77	207.00	0.00
202.20	-15.77	207.00	0.00
202.50	-15.77	207.00	0.00
202.70	-15.77	207.00	0.00
203.00	-15.77	207.00	0.00
203.20	-15.77	207.00	0.00
203.25	-15.77	207.00	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
203.50	-15.77	207.00	0.00
203.70	-15.77	207.00	0.00
204.00	-15.77	207.00	0.00
204.20	-15.77	207.00	0.00
204.50	-15.77	207.00	0.00
204.70	-15.77	207.00	0.00
205.00	-14.79	207.00	0.00
205.20	-14.03	207.00	0.00
205.50	-12.81	207.00	0.00
205.70	-11.92	207.00	0.00
206.00	-10.45	207.00	0.00
206.20	-9.36	207.00	0.00
206.50	-7.39	207.00	0.00
206.70	-5.72	207.00	0.00
207.00	0.00	207.00	0.00
207.20	4.68	207.00	0.00
207.50	7.39	207.00	0.00
207.70	8.75	207.00	0.00
208.00	10.46	207.00	0.00
208.20	11.45	207.00	0.00
208.70	13.63	207.00	0.00
209.20	15.51	207.00	0.00
209.70	17.18	207.00	0.00
210.20	18.71	207.00	0.00
210.70	20.12	207.00	0.00
211.20	21.43	207.00	0.00
211.50	22.18	207.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-17.40	207.50	0.00
201.70	-17.40	207.50	0.00
202.20	-17.40	207.50	0.00
202.50	-17.40	207.50	0.00
202.70	-17.40	207.50	0.00
203.00	-17.40	207.50	0.00
203.20	-17.40	207.50	0.00
203.25	-17.40	207.50	0.00
203.50	-17.40	207.50	0.00
203.70	-17.40	207.50	0.00
204.00	-17.40	207.50	0.00
204.20	-17.40	207.50	0.00
204.50	-17.40	207.50	0.00
204.70	-17.40	207.50	0.00
205.00	-16.53	207.50	0.00
205.20	-15.86	207.50	0.00
205.50	-14.79	207.50	0.00
205.70	-14.03	207.50	0.00
206.00	-12.81	207.50	0.00
206.20	-11.92	207.50	0.00
206.50	-10.45	207.50	0.00
206.70	-9.36	207.50	0.00
207.00	-7.39	207.50	0.00
207.20	-5.72	207.50	0.00
207.50	0.00	207.50	0.00
207.70	4.68	207.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
208.00	7.40	207.50	0.00
208.20	8.75	207.50	0.00
208.70	11.45	207.50	0.00
209.20	13.64	207.50	0.00
209.70	15.51	207.50	0.00
210.20	17.18	207.50	0.00
210.70	18.71	207.50	0.00
211.20	20.12	207.50	0.00
211.50	20.91	207.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-18.89	208.00	0.00
201.70	-18.89	208.00	0.00
202.20	-18.89	208.00	0.00
202.50	-18.89	208.00	0.00
202.70	-18.89	208.00	0.00
203.00	-18.89	208.00	0.00
203.20	-18.89	208.00	0.00
203.25	-18.89	208.00	0.00
203.50	-18.89	208.00	0.00
203.70	-18.89	208.00	0.00
204.00	-18.89	208.00	0.00
204.20	-18.89	208.00	0.00
204.50	-18.89	208.00	0.00
204.70	-18.89	208.00	0.00
205.00	-18.11	208.00	0.00
205.20	-17.50	208.00	0.00
205.50	-16.53	208.00	0.00
205.70	-15.86	208.00	0.00
206.00	-14.79	208.00	0.00
206.20	-14.03	208.00	0.00
206.50	-12.81	208.00	0.00
206.70	-11.92	208.00	0.00
207.00	-10.45	208.00	0.00
207.20	-9.36	208.00	0.00
207.50	-7.39	208.00	0.00
207.70	-5.72	208.00	0.00
208.00	0.00	208.00	0.00
208.20	4.69	208.00	0.00
208.70	8.75	208.00	0.00
209.20	11.45	208.00	0.00
209.70	13.64	208.00	0.00
210.20	15.51	208.00	0.00
210.70	17.18	208.00	0.00
211.20	18.71	208.00	0.00
211.50	19.57	208.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 1 years
Label: OS-1B inf | Storm Event: 1 year
Scenario: Post-Development 1 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Subsection: Composite Rating Curve | Return Event: 2 years
Label: OS-1B inf | Storm Event: 2 year
Scenario: Post-Development 2 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	202.50	0.00
201.70	0.00	202.50	0.00
202.20	0.00	202.50	0.00
202.50	0.00	202.50	0.00
202.70	0.00	202.50	0.00
203.00	0.00	202.50	0.00
203.20	0.00	202.50	0.00
203.25	0.00	202.50	0.00
203.50	0.16	202.50	0.00
203.70	0.57	202.50	0.00
204.00	1.65	202.50	0.00
204.20	2.59	202.50	0.00
204.50	4.28	202.50	0.00
204.70	5.51	202.50	0.00
205.00	7.33	202.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
205.20	8.42	202.50	0.00
205.50	9.85	202.50	0.00
205.70	10.76	202.50	0.00
206.00	12.06	202.50	0.00
206.20	12.86	202.50	0.00
206.50	14.01	202.50	0.00
206.70	14.74	202.50	0.00
207.00	15.77	202.50	0.00
207.20	16.45	202.50	0.00
207.50	17.40	202.50	0.00
207.70	18.02	202.50	0.00
208.00	18.89	202.50	0.00
208.20	19.45	202.50	0.00
208.70	20.81	202.50	0.00
209.20	22.08	202.50	0.00
209.70	23.28	202.50	0.00
210.20	24.42	202.50	0.00
210.70	25.52	202.50	0.00
211.20	26.57	202.50	0.00
211.50	27.18	202.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
None Contributing
None Contributing
None Contributing
None Contributing
None Contributing
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	203.00	0.00
201.70	0.00	203.00	0.00
202.20	0.00	203.00	0.00
202.50	0.00	203.00	0.00
202.70	0.00	203.00	0.00
203.00	0.00	203.00	0.00
203.20	0.00	203.00	0.00
203.25	0.00	203.00	0.00
203.50	0.16	203.00	0.00
203.70	0.57	203.00	0.00
204.00	1.65	203.00	0.00
204.20	2.59	203.00	0.00
204.50	4.28	203.00	0.00
204.70	5.51	203.00	0.00
205.00	7.33	203.00	0.00
205.20	8.42	203.00	0.00
205.50	9.85	203.00	0.00
205.70	10.76	203.00	0.00
206.00	12.06	203.00	0.00
206.20	12.86	203.00	0.00
206.50	14.01	203.00	0.00
206.70	14.74	203.00	0.00
207.00	15.77	203.00	0.00
207.20	16.45	203.00	0.00
207.50	17.40	203.00	0.00
207.70	18.02	203.00	0.00
208.00	18.89	203.00	0.00
208.20	19.45	203.00	0.00
208.70	20.81	203.00	0.00
209.20	22.08	203.00	0.00
209.70	23.28	203.00	0.00
210.20	24.42	203.00	0.00
210.70	25.52	203.00	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
211.20	26.57	203.00	0.00
211.50	27.18	203.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
None Contributing
None Contributing
None Contributing
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	203.25	0.00
201.70	0.00	203.25	0.00
202.20	0.00	203.25	0.00
202.50	0.00	203.25	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 2 years
Label: OS-1B inf | Storm Event: 2 year
Scenario: Post-Development 2 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
202.70	0.00	203.25	0.00
203.00	0.00	203.25	0.00
203.20	0.00	203.25	0.00
203.25	0.00	203.25	0.00
203.50	0.16	203.25	0.00
203.70	0.57	203.25	0.00
204.00	1.65	203.25	0.00
204.20	2.59	203.25	0.00
204.50	4.28	203.25	0.00
204.70	5.51	203.25	0.00
205.00	7.33	203.25	0.00
205.20	8.42	203.25	0.00
205.50	9.85	203.25	0.00
205.70	10.76	203.25	0.00
206.00	12.06	203.25	0.00
206.20	12.86	203.25	0.00
206.50	14.01	203.25	0.00
206.70	14.74	203.25	0.00
207.00	15.77	203.25	0.00
207.20	16.45	203.25	0.00
207.50	17.40	203.25	0.00
207.70	18.02	203.25	0.00
208.00	18.89	203.25	0.00
208.20	19.45	203.25	0.00
208.70	20.81	203.25	0.00
209.20	22.08	203.25	0.00
209.70	23.28	203.25	0.00
210.20	24.42	203.25	0.00
210.70	25.52	203.25	0.00
211.20	26.57	203.25	0.00
211.50	27.18	203.25	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
None Contributing
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-0.16	203.50	0.00
201.70	-0.16	203.50	0.00
202.20	-0.16	203.50	0.00
202.50	-0.16	203.50	0.00
202.70	-0.16	203.50	0.00
203.00	-0.16	203.50	0.00
203.20	-0.16	203.50	0.00
203.25	-0.16	203.50	0.00
203.50	0.00	203.50	0.00
203.70	0.57	203.50	0.00
204.00	1.65	203.50	0.00
204.20	2.59	203.50	0.00
204.50	4.28	203.50	0.00
204.70	5.51	203.50	0.00
205.00	7.33	203.50	0.00
205.20	8.42	203.50	0.00
205.50	9.85	203.50	0.00
205.70	10.76	203.50	0.00
206.00	12.06	203.50	0.00
206.20	12.86	203.50	0.00
206.50	14.01	203.50	0.00
206.70	14.74	203.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
207.00	15.77	203.50	0.00
207.20	16.45	203.50	0.00
207.50	17.40	203.50	0.00
207.70	18.02	203.50	0.00
208.00	18.89	203.50	0.00
208.20	19.45	203.50	0.00
208.70	20.81	203.50	0.00
209.20	22.08	203.50	0.00
209.70	23.28	203.50	0.00
210.20	24.42	203.50	0.00
210.70	25.52	203.50	0.00
211.20	26.57	203.50	0.00
211.50	27.18	203.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 2 years
Label: OS-1B inf | Storm Event: 2 year
Scenario: Post-Development 2 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-1.65	204.00	0.00
201.70	-1.65	204.00	0.00
202.20	-1.65	204.00	0.00
202.50	-1.65	204.00	0.00
202.70	-1.65	204.00	0.00
203.00	-1.65	204.00	0.00
203.20	-1.65	204.00	0.00
203.25	-1.65	204.00	0.00
203.50	-1.65	204.00	0.00
203.70	-1.65	204.00	0.00
204.00	0.00	204.00	0.00
204.20	2.46	204.00	0.00
204.50	4.28	204.00	0.00
204.70	5.51	204.00	0.00
205.00	7.33	204.00	0.00
205.20	8.42	204.00	0.00
205.50	9.85	204.00	0.00
205.70	10.76	204.00	0.00
206.00	12.06	204.00	0.00
206.20	12.86	204.00	0.00
206.50	14.01	204.00	0.00
206.70	14.74	204.00	0.00
207.00	15.77	204.00	0.00
207.20	16.45	204.00	0.00
207.50	17.40	204.00	0.00
207.70	18.02	204.00	0.00
208.00	18.89	204.00	0.00
208.20	19.45	204.00	0.00
208.70	20.81	204.00	0.00
209.20	22.08	204.00	0.00
209.70	23.28	204.00	0.00
210.20	24.42	204.00	0.00
210.70	25.52	204.00	0.00
211.20	26.57	204.00	0.00
211.50	27.18	204.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-4.28	204.50	0.00
201.70	-4.28	204.50	0.00
202.20	-4.28	204.50	0.00
202.50	-4.28	204.50	0.00
202.70	-4.28	204.50	0.00
203.00	-4.28	204.50	0.00
203.20	-4.28	204.50	0.00
203.25	-4.28	204.50	0.00
203.50	-4.28	204.50	0.00
203.70	-4.28	204.50	0.00
204.00	-4.28	204.50	0.00
204.20	-4.11	204.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 2 years
Label: OS-1B inf | Storm Event: 2 year
Scenario: Post-Development 2 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
204.50	0.00	204.50	0.00
204.70	4.39	204.50	0.00
205.00	7.02	204.50	0.00
205.20	8.29	204.50	0.00
205.50	9.84	204.50	0.00
205.70	10.76	204.50	0.00
206.00	12.06	204.50	0.00
206.20	12.86	204.50	0.00
206.50	14.01	204.50	0.00
206.70	14.74	204.50	0.00
207.00	15.77	204.50	0.00
207.20	16.45	204.50	0.00
207.50	17.40	204.50	0.00
207.70	18.02	204.50	0.00
208.00	18.89	204.50	0.00
208.20	19.45	204.50	0.00
208.70	20.81	204.50	0.00
209.20	22.08	204.50	0.00
209.70	23.28	204.50	0.00
210.20	24.42	204.50	0.00
210.70	25.52	204.50	0.00
211.20	26.57	204.50	0.00
211.50	27.18	204.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-7.33	205.00	0.00
201.70	-7.33	205.00	0.00
202.20	-7.33	205.00	0.00
202.50	-7.33	205.00	0.00
202.70	-7.33	205.00	0.00
203.00	-7.33	205.00	0.00
203.20	-7.33	205.00	0.00
203.25	-7.33	205.00	0.00
203.50	-7.33	205.00	0.00
203.70	-7.33	205.00	0.00
204.00	-7.33	205.00	0.00
204.20	-7.33	205.00	0.00
204.50	-7.03	205.00	0.00
204.70	-5.75	205.00	0.00
205.00	0.00	205.00	0.00
205.20	4.68	205.00	0.00
205.50	7.39	205.00	0.00
205.70	8.75	205.00	0.00
206.00	10.46	205.00	0.00
206.20	11.45	205.00	0.00
206.50	12.81	205.00	0.00
206.70	13.64	205.00	0.00
207.00	14.79	205.00	0.00
207.20	15.51	205.00	0.00
207.50	16.53	205.00	0.00
207.70	17.18	205.00	0.00
208.00	18.11	205.00	0.00
208.20	18.70	205.00	0.00
208.70	20.11	205.00	0.00
209.20	21.43	205.00	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve — Return Event: 2 years
Label: OS-1B inf — Storm Event: 2 year
Scenario: Post-Development 2 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
209.70	22.67	205.00	0.00
210.20	23.85	205.00	0.00
210.70	24.97	205.00	0.00
211.20	26.04	205.00	0.00
211.50	26.66	205.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-9.85	205.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.70	-9.85	205.50	0.00
202.20	-9.85	205.50	0.00
202.50	-9.85	205.50	0.00
202.70	-9.85	205.50	0.00
203.00	-9.85	205.50	0.00
203.20	-9.85	205.50	0.00
203.25	-9.85	205.50	0.00
203.50	-9.85	205.50	0.00
203.70	-9.85	205.50	0.00
204.00	-9.85	205.50	0.00
204.20	-9.85	205.50	0.00
204.50	-9.85	205.50	0.00
204.70	-9.32	205.50	0.00
205.00	-7.39	205.50	0.00
205.20	-5.72	205.50	0.00
205.50	0.00	205.50	0.00
205.70	4.67	205.50	0.00
206.00	7.39	205.50	0.00
206.20	8.75	205.50	0.00
206.50	10.46	205.50	0.00
206.70	11.46	205.50	0.00
207.00	12.81	205.50	0.00
207.20	13.64	205.50	0.00
207.50	14.79	205.50	0.00
207.70	15.51	205.50	0.00
208.00	16.54	205.50	0.00
208.20	17.19	205.50	0.00
208.70	18.71	205.50	0.00
209.20	20.11	205.50	0.00
209.70	21.43	205.50	0.00
210.20	22.67	205.50	0.00
210.70	23.85	205.50	0.00
211.20	24.97	205.50	0.00
211.50	25.62	205.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-12.05	206.00	0.00
201.70	-12.05	206.00	0.00
202.20	-12.05	206.00	0.00
202.50	-12.05	206.00	0.00
202.70	-12.05	206.00	0.00
203.00	-12.05	206.00	0.00
203.20	-12.05	206.00	0.00
203.25	-12.05	206.00	0.00
203.50	-12.05	206.00	0.00
203.70	-12.05	206.00	0.00
204.00	-12.05	206.00	0.00
204.20	-12.05	206.00	0.00
204.50	-12.05	206.00	0.00
204.70	-11.87	206.00	0.00
205.00	-10.45	206.00	0.00
205.20	-9.36	206.00	0.00
205.50	-7.39	206.00	0.00
205.70	-5.72	206.00	0.00
206.00	0.00	206.00	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
206.20	4.68	206.00	0.00
206.50	7.40	206.00	0.00
206.70	8.74	206.00	0.00
207.00	10.46	206.00	0.00
207.20	11.45	206.00	0.00
207.50	12.81	206.00	0.00
207.70	13.64	206.00	0.00
208.00	14.79	206.00	0.00
208.20	15.51	206.00	0.00
208.70	17.18	206.00	0.00
209.20	18.70	206.00	0.00
209.70	20.12	206.00	0.00
210.20	21.43	206.00	0.00
210.70	22.67	206.00	0.00
211.20	23.85	206.00	0.00
211.50	24.53	206.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-14.01	206.50	0.00
201.70	-14.01	206.50	0.00
202.20	-14.01	206.50	0.00
202.50	-14.01	206.50	0.00
202.70	-14.01	206.50	0.00
203.00	-14.01	206.50	0.00
203.20	-14.01	206.50	0.00
203.25	-14.01	206.50	0.00
203.50	-14.01	206.50	0.00
203.70	-14.01	206.50	0.00
204.00	-14.01	206.50	0.00
204.20	-14.01	206.50	0.00
204.50	-14.01	206.50	0.00
204.70	-13.95	206.50	0.00
205.00	-12.81	206.50	0.00
205.20	-11.92	206.50	0.00
205.50	-10.45	206.50	0.00
205.70	-9.36	206.50	0.00
206.00	-7.39	206.50	0.00
206.20	-5.72	206.50	0.00
206.50	0.00	206.50	0.00
206.70	4.67	206.50	0.00
207.00	7.39	206.50	0.00
207.20	8.75	206.50	0.00
207.50	10.46	206.50	0.00
207.70	11.46	206.50	0.00
208.00	12.81	206.50	0.00
208.20	13.64	206.50	0.00
208.70	15.51	206.50	0.00
209.20	17.19	206.50	0.00
209.70	18.71	206.50	0.00
210.20	20.12	206.50	0.00
210.70	21.43	206.50	0.00
211.20	22.67	206.50	0.00
211.50	23.38	206.50	0.00

Contributing Structures
Culvert - 1B inf

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-15.77	207.00	0.00
201.70	-15.77	207.00	0.00
202.20	-15.77	207.00	0.00
202.50	-15.77	207.00	0.00
202.70	-15.77	207.00	0.00
203.00	-15.77	207.00	0.00
203.20	-15.77	207.00	0.00
203.25	-15.77	207.00	0.00
203.50	-15.77	207.00	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
203.70	-15.77	207.00	0.00
204.00	-15.77	207.00	0.00
204.20	-15.77	207.00	0.00
204.50	-15.77	207.00	0.00
204.70	-15.77	207.00	0.00
205.00	-14.79	207.00	0.00
205.20	-14.03	207.00	0.00
205.50	-12.81	207.00	0.00
205.70	-11.92	207.00	0.00
206.00	-10.45	207.00	0.00
206.20	-9.36	207.00	0.00
206.50	-7.39	207.00	0.00
206.70	-5.72	207.00	0.00
207.00	0.00	207.00	0.00
207.20	4.68	207.00	0.00
207.50	7.39	207.00	0.00
207.70	8.75	207.00	0.00
208.00	10.46	207.00	0.00
208.20	11.45	207.00	0.00
208.70	13.63	207.00	0.00
209.20	15.51	207.00	0.00
209.70	17.18	207.00	0.00
210.20	18.71	207.00	0.00
210.70	20.12	207.00	0.00
211.20	21.43	207.00	0.00
211.50	22.18	207.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 2 years
Label: OS-1B inf | Storm Event: 2 year
Scenario: Post-Development 2 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-17.40	207.50	0.00
201.70	-17.40	207.50	0.00
202.20	-17.40	207.50	0.00
202.50	-17.40	207.50	0.00
202.70	-17.40	207.50	0.00
203.00	-17.40	207.50	0.00
203.20	-17.40	207.50	0.00
203.25	-17.40	207.50	0.00
203.50	-17.40	207.50	0.00
203.70	-17.40	207.50	0.00
204.00	-17.40	207.50	0.00
204.20	-17.40	207.50	0.00
204.50	-17.40	207.50	0.00
204.70	-17.40	207.50	0.00
205.00	-16.53	207.50	0.00
205.20	-15.86	207.50	0.00
205.50	-14.79	207.50	0.00
205.70	-14.03	207.50	0.00
206.00	-12.81	207.50	0.00
206.20	-11.92	207.50	0.00
206.50	-10.45	207.50	0.00
206.70	-9.36	207.50	0.00
207.00	-7.39	207.50	0.00
207.20	-5.72	207.50	0.00
207.50	0.00	207.50	0.00
207.70	4.68	207.50	0.00
208.00	7.40	207.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 2 years
Label: OS-1B inf | Storm Event: 2 year
Scenario: Post-Development 2 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
208.20	8.75	207.50	0.00
208.70	11.45	207.50	0.00
209.20	13.64	207.50	0.00
209.70	15.51	207.50	0.00
210.20	17.18	207.50	0.00
210.70	18.71	207.50	0.00
211.20	20.12	207.50	0.00
211.50	20.91	207.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-18.89	208.00	0.00
201.70	-18.89	208.00	0.00
202.20	-18.89	208.00	0.00
202.50	-18.89	208.00	0.00
202.70	-18.89	208.00	0.00
203.00	-18.89	208.00	0.00
203.20	-18.89	208.00	0.00
203.25	-18.89	208.00	0.00
203.50	-18.89	208.00	0.00
203.70	-18.89	208.00	0.00
204.00	-18.89	208.00	0.00
204.20	-18.89	208.00	0.00
204.50	-18.89	208.00	0.00
204.70	-18.89	208.00	0.00
205.00	-18.11	208.00	0.00
205.20	-17.50	208.00	0.00
205.50	-16.53	208.00	0.00
205.70	-15.86	208.00	0.00
206.00	-14.79	208.00	0.00
206.20	-14.03	208.00	0.00
206.50	-12.81	208.00	0.00
206.70	-11.92	208.00	0.00
207.00	-10.45	208.00	0.00
207.20	-9.36	208.00	0.00
207.50	-7.39	208.00	0.00
207.70	-5.72	208.00	0.00
208.00	0.00	208.00	0.00
208.20	4.69	208.00	0.00
208.70	8.75	208.00	0.00
209.20	11.45	208.00	0.00
209.70	13.64	208.00	0.00
210.20	15.51	208.00	0.00
210.70	17.18	208.00	0.00
211.20	18.71	208.00	0.00
211.50	19.57	208.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	202.50	0.00
201.70	0.00	202.50	0.00
202.20	0.00	202.50	0.00
202.50	0.00	202.50	0.00
202.70	0.00	202.50	0.00
203.00	0.00	202.50	0.00
203.20	0.00	202.50	0.00
203.25	0.00	202.50	0.00
203.50	0.16	202.50	0.00
203.70	0.57	202.50	0.00
204.00	1.65	202.50	0.00
204.20	2.59	202.50	0.00
204.50	4.28	202.50	0.00
204.70	5.51	202.50	0.00
205.00	7.33	202.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
205.20	8.42	202.50	0.00
205.50	9.85	202.50	0.00
205.70	10.76	202.50	0.00
206.00	12.06	202.50	0.00
206.20	12.86	202.50	0.00
206.50	14.01	202.50	0.00
206.70	14.74	202.50	0.00
207.00	15.77	202.50	0.00
207.20	16.45	202.50	0.00
207.50	17.40	202.50	0.00
207.70	18.02	202.50	0.00
208.00	18.89	202.50	0.00
208.20	19.45	202.50	0.00
208.70	20.81	202.50	0.00
209.20	22.08	202.50	0.00
209.70	23.28	202.50	0.00
210.20	24.42	202.50	0.00
210.70	25.52	202.50	0.00
211.20	26.57	202.50	0.00
211.50	27.18	202.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
None Contributing
None Contributing
None Contributing
None Contributing
None Contributing
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 10 years
Label: OS-1B inf | Storm Event: 10 year
Scenario: Post-Development 10 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	203.00	0.00
201.70	0.00	203.00	0.00
202.20	0.00	203.00	0.00
202.50	0.00	203.00	0.00
202.70	0.00	203.00	0.00
203.00	0.00	203.00	0.00
203.20	0.00	203.00	0.00
203.25	0.00	203.00	0.00
203.50	0.16	203.00	0.00
203.70	0.57	203.00	0.00
204.00	1.65	203.00	0.00
204.20	2.59	203.00	0.00
204.50	4.28	203.00	0.00
204.70	5.51	203.00	0.00
205.00	7.33	203.00	0.00
205.20	8.42	203.00	0.00
205.50	9.85	203.00	0.00
205.70	10.76	203.00	0.00
206.00	12.06	203.00	0.00
206.20	12.86	203.00	0.00
206.50	14.01	203.00	0.00
206.70	14.74	203.00	0.00
207.00	15.77	203.00	0.00
207.20	16.45	203.00	0.00
207.50	17.40	203.00	0.00
207.70	18.02	203.00	0.00
208.00	18.89	203.00	0.00
208.20	19.45	203.00	0.00
208.70	20.81	203.00	0.00
209.20	22.08	203.00	0.00
209.70	23.28	203.00	0.00
210.20	24.42	203.00	0.00
210.70	25.52	203.00	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 10 years
Label: OS-1B inf | Storm Event: 10 year
Scenario: Post-Development 10 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
211.20	26.57	203.00	0.00
211.50	27.18	203.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
None Contributing
None Contributing
None Contributing
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	203.25	0.00
201.70	0.00	203.25	0.00
202.20	0.00	203.25	0.00
202.50	0.00	203.25	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 10 years
Label: OS-1B inf | Storm Event: 10 year
Scenario: Post-Development 10 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
202.70	0.00	203.25	0.00
203.00	0.00	203.25	0.00
203.20	0.00	203.25	0.00
203.25	0.00	203.25	0.00
203.50	0.16	203.25	0.00
203.70	0.57	203.25	0.00
204.00	1.65	203.25	0.00
204.20	2.59	203.25	0.00
204.50	4.28	203.25	0.00
204.70	5.51	203.25	0.00
205.00	7.33	203.25	0.00
205.20	8.42	203.25	0.00
205.50	9.85	203.25	0.00
205.70	10.76	203.25	0.00
206.00	12.06	203.25	0.00
206.20	12.86	203.25	0.00
206.50	14.01	203.25	0.00
206.70	14.74	203.25	0.00
207.00	15.77	203.25	0.00
207.20	16.45	203.25	0.00
207.50	17.40	203.25	0.00
207.70	18.02	203.25	0.00
208.00	18.89	203.25	0.00
208.20	19.45	203.25	0.00
208.70	20.81	203.25	0.00
209.20	22.08	203.25	0.00
209.70	23.28	203.25	0.00
210.20	24.42	203.25	0.00
210.70	25.52	203.25	0.00
211.20	26.57	203.25	0.00
211.50	27.18	203.25	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
None Contributing
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-0.16	203.50	0.00
201.70	-0.16	203.50	0.00
202.20	-0.16	203.50	0.00
202.50	-0.16	203.50	0.00
202.70	-0.16	203.50	0.00
203.00	-0.16	203.50	0.00
203.20	-0.16	203.50	0.00
203.25	-0.16	203.50	0.00
203.50	0.00	203.50	0.00
203.70	0.57	203.50	0.00
204.00	1.65	203.50	0.00
204.20	2.59	203.50	0.00
204.50	4.28	203.50	0.00
204.70	5.51	203.50	0.00
205.00	7.33	203.50	0.00
205.20	8.42	203.50	0.00
205.50	9.85	203.50	0.00
205.70	10.76	203.50	0.00
206.00	12.06	203.50	0.00
206.20	12.86	203.50	0.00
206.50	14.01	203.50	0.00
206.70	14.74	203.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 10 years
Label: OS-1B inf | Storm Event: 10 year
Scenario: Post-Development 10 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
207.00	15.77	203.50	0.00
207.20	16.45	203.50	0.00
207.50	17.40	203.50	0.00
207.70	18.02	203.50	0.00
208.00	18.89	203.50	0.00
208.20	19.45	203.50	0.00
208.70	20.81	203.50	0.00
209.20	22.08	203.50	0.00
209.70	23.28	203.50	0.00
210.20	24.42	203.50	0.00
210.70	25.52	203.50	0.00
211.20	26.57	203.50	0.00
211.50	27.18	203.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-1.65	204.00	0.00
201.70	-1.65	204.00	0.00
202.20	-1.65	204.00	0.00
202.50	-1.65	204.00	0.00
202.70	-1.65	204.00	0.00
203.00	-1.65	204.00	0.00
203.20	-1.65	204.00	0.00
203.25	-1.65	204.00	0.00
203.50	-1.65	204.00	0.00
203.70	-1.65	204.00	0.00
204.00	0.00	204.00	0.00
204.20	2.46	204.00	0.00
204.50	4.28	204.00	0.00
204.70	5.51	204.00	0.00
205.00	7.33	204.00	0.00
205.20	8.42	204.00	0.00
205.50	9.85	204.00	0.00
205.70	10.76	204.00	0.00
206.00	12.06	204.00	0.00
206.20	12.86	204.00	0.00
206.50	14.01	204.00	0.00
206.70	14.74	204.00	0.00
207.00	15.77	204.00	0.00
207.20	16.45	204.00	0.00
207.50	17.40	204.00	0.00
207.70	18.02	204.00	0.00
208.00	18.89	204.00	0.00
208.20	19.45	204.00	0.00
208.70	20.81	204.00	0.00
209.20	22.08	204.00	0.00
209.70	23.28	204.00	0.00
210.20	24.42	204.00	0.00
210.70	25.52	204.00	0.00
211.20	26.57	204.00	0.00
211.50	27.18	204.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-4.28	204.50	0.00
201.70	-4.28	204.50	0.00
202.20	-4.28	204.50	0.00
202.50	-4.28	204.50	0.00
202.70	-4.28	204.50	0.00
203.00	-4.28	204.50	0.00
203.20	-4.28	204.50	0.00
203.25	-4.28	204.50	0.00
203.50	-4.28	204.50	0.00
203.70	-4.28	204.50	0.00
204.00	-4.28	204.50	0.00
204.20	-4.11	204.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 10 years
Label: OS-1B inf | Storm Event: 10 year
Scenario: Post-Development 10 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
204.50	0.00	204.50	0.00
204.70	4.39	204.50	0.00
205.00	7.02	204.50	0.00
205.20	8.29	204.50	0.00
205.50	9.84	204.50	0.00
205.70	10.76	204.50	0.00
206.00	12.06	204.50	0.00
206.20	12.86	204.50	0.00
206.50	14.01	204.50	0.00
206.70	14.74	204.50	0.00
207.00	15.77	204.50	0.00
207.20	16.45	204.50	0.00
207.50	17.40	204.50	0.00
207.70	18.02	204.50	0.00
208.00	18.89	204.50	0.00
208.20	19.45	204.50	0.00
208.70	20.81	204.50	0.00
209.20	22.08	204.50	0.00
209.70	23.28	204.50	0.00
210.20	24.42	204.50	0.00
210.70	25.52	204.50	0.00
211.20	26.57	204.50	0.00
211.50	27.18	204.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-7.33	205.00	0.00
201.70	-7.33	205.00	0.00
202.20	-7.33	205.00	0.00
202.50	-7.33	205.00	0.00
202.70	-7.33	205.00	0.00
203.00	-7.33	205.00	0.00
203.20	-7.33	205.00	0.00
203.25	-7.33	205.00	0.00
203.50	-7.33	205.00	0.00
203.70	-7.33	205.00	0.00
204.00	-7.33	205.00	0.00
204.20	-7.33	205.00	0.00
204.50	-7.03	205.00	0.00
204.70	-5.75	205.00	0.00
205.00	0.00	205.00	0.00
205.20	4.68	205.00	0.00
205.50	7.39	205.00	0.00
205.70	8.75	205.00	0.00
206.00	10.46	205.00	0.00
206.20	11.45	205.00	0.00
206.50	12.81	205.00	0.00
206.70	13.64	205.00	0.00
207.00	14.79	205.00	0.00
207.20	15.51	205.00	0.00
207.50	16.53	205.00	0.00
207.70	17.18	205.00	0.00
208.00	18.11	205.00	0.00
208.20	18.70	205.00	0.00
208.70	20.11	205.00	0.00
209.20	21.43	205.00	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 10 years
Label: OS-1B inf | Storm Event: 10 year
Scenario: Post-Development 10 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
209.70	22.67	205.00	0.00
210.20	23.85	205.00	0.00
210.70	24.97	205.00	0.00
211.20	26.04	205.00	0.00
211.50	26.66	205.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-9.85	205.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve — Return Event: 10 years
Label: OS-1B inf — Storm Event: 10 year
Scenario: Post-Development 10 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.70	-9.85	205.50	0.00
202.20	-9.85	205.50	0.00
202.50	-9.85	205.50	0.00
202.70	-9.85	205.50	0.00
203.00	-9.85	205.50	0.00
203.20	-9.85	205.50	0.00
203.25	-9.85	205.50	0.00
203.50	-9.85	205.50	0.00
203.70	-9.85	205.50	0.00
204.00	-9.85	205.50	0.00
204.20	-9.85	205.50	0.00
204.50	-9.85	205.50	0.00
204.70	-9.32	205.50	0.00
205.00	-7.39	205.50	0.00
205.20	-5.72	205.50	0.00
205.50	0.00	205.50	0.00
205.70	4.67	205.50	0.00
206.00	7.39	205.50	0.00
206.20	8.75	205.50	0.00
206.50	10.46	205.50	0.00
206.70	11.46	205.50	0.00
207.00	12.81	205.50	0.00
207.20	13.64	205.50	0.00
207.50	14.79	205.50	0.00
207.70	15.51	205.50	0.00
208.00	16.54	205.50	0.00
208.20	17.19	205.50	0.00
208.70	18.71	205.50	0.00
209.20	20.11	205.50	0.00
209.70	21.43	205.50	0.00
210.20	22.67	205.50	0.00
210.70	23.85	205.50	0.00
211.20	24.97	205.50	0.00
211.50	25.62	205.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-12.05	206.00	0.00
201.70	-12.05	206.00	0.00
202.20	-12.05	206.00	0.00
202.50	-12.05	206.00	0.00
202.70	-12.05	206.00	0.00
203.00	-12.05	206.00	0.00
203.20	-12.05	206.00	0.00
203.25	-12.05	206.00	0.00
203.50	-12.05	206.00	0.00
203.70	-12.05	206.00	0.00
204.00	-12.05	206.00	0.00
204.20	-12.05	206.00	0.00
204.50	-12.05	206.00	0.00
204.70	-11.87	206.00	0.00
205.00	-10.45	206.00	0.00
205.20	-9.36	206.00	0.00
205.50	-7.39	206.00	0.00
205.70	-5.72	206.00	0.00
206.00	0.00	206.00	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 10 years
Label: OS-1B inf | Storm Event: 10 year
Scenario: Post-Development 10 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
206.20	4.68	206.00	0.00
206.50	7.40	206.00	0.00
206.70	8.74	206.00	0.00
207.00	10.46	206.00	0.00
207.20	11.45	206.00	0.00
207.50	12.81	206.00	0.00
207.70	13.64	206.00	0.00
208.00	14.79	206.00	0.00
208.20	15.51	206.00	0.00
208.70	17.18	206.00	0.00
209.20	18.70	206.00	0.00
209.70	20.12	206.00	0.00
210.20	21.43	206.00	0.00
210.70	22.67	206.00	0.00
211.20	23.85	206.00	0.00
211.50	24.53	206.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-14.01	206.50	0.00
201.70	-14.01	206.50	0.00
202.20	-14.01	206.50	0.00
202.50	-14.01	206.50	0.00
202.70	-14.01	206.50	0.00
203.00	-14.01	206.50	0.00
203.20	-14.01	206.50	0.00
203.25	-14.01	206.50	0.00
203.50	-14.01	206.50	0.00
203.70	-14.01	206.50	0.00
204.00	-14.01	206.50	0.00
204.20	-14.01	206.50	0.00
204.50	-14.01	206.50	0.00
204.70	-13.95	206.50	0.00
205.00	-12.81	206.50	0.00
205.20	-11.92	206.50	0.00
205.50	-10.45	206.50	0.00
205.70	-9.36	206.50	0.00
206.00	-7.39	206.50	0.00
206.20	-5.72	206.50	0.00
206.50	0.00	206.50	0.00
206.70	4.67	206.50	0.00
207.00	7.39	206.50	0.00
207.20	8.75	206.50	0.00
207.50	10.46	206.50	0.00
207.70	11.46	206.50	0.00
208.00	12.81	206.50	0.00
208.20	13.64	206.50	0.00
208.70	15.51	206.50	0.00
209.20	17.19	206.50	0.00
209.70	18.71	206.50	0.00
210.20	20.12	206.50	0.00
210.70	21.43	206.50	0.00
211.20	22.67	206.50	0.00
211.50	23.38	206.50	0.00

Contributing Structures
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 10 years
Label: OS-1B inf | Storm Event: 10 year
Scenario: Post-Development 10 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-15.77	207.00	0.00
201.70	-15.77	207.00	0.00
202.20	-15.77	207.00	0.00
202.50	-15.77	207.00	0.00
202.70	-15.77	207.00	0.00
203.00	-15.77	207.00	0.00
203.20	-15.77	207.00	0.00
203.25	-15.77	207.00	0.00
203.50	-15.77	207.00	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
203.70	-15.77	207.00	0.00
204.00	-15.77	207.00	0.00
204.20	-15.77	207.00	0.00
204.50	-15.77	207.00	0.00
204.70	-15.77	207.00	0.00
205.00	-14.79	207.00	0.00
205.20	-14.03	207.00	0.00
205.50	-12.81	207.00	0.00
205.70	-11.92	207.00	0.00
206.00	-10.45	207.00	0.00
206.20	-9.36	207.00	0.00
206.50	-7.39	207.00	0.00
206.70	-5.72	207.00	0.00
207.00	0.00	207.00	0.00
207.20	4.68	207.00	0.00
207.50	7.39	207.00	0.00
207.70	8.75	207.00	0.00
208.00	10.46	207.00	0.00
208.20	11.45	207.00	0.00
208.70	13.63	207.00	0.00
209.20	15.51	207.00	0.00
209.70	17.18	207.00	0.00
210.20	18.71	207.00	0.00
210.70	20.12	207.00	0.00
211.20	21.43	207.00	0.00
211.50	22.18	207.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Subsection: Composite Rating Curve Return Event: 10 years
Label: OS-1B inf Storm Event: 10 year
Scenario: Post-Development 10 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-17.40	207.50	0.00
201.70	-17.40	207.50	0.00
202.20	-17.40	207.50	0.00
202.50	-17.40	207.50	0.00
202.70	-17.40	207.50	0.00
203.00	-17.40	207.50	0.00
203.20	-17.40	207.50	0.00
203.25	-17.40	207.50	0.00
203.50	-17.40	207.50	0.00
203.70	-17.40	207.50	0.00
204.00	-17.40	207.50	0.00
204.20	-17.40	207.50	0.00
204.50	-17.40	207.50	0.00
204.70	-17.40	207.50	0.00
205.00	-16.53	207.50	0.00
205.20	-15.86	207.50	0.00
205.50	-14.79	207.50	0.00
205.70	-14.03	207.50	0.00
206.00	-12.81	207.50	0.00
206.20	-11.92	207.50	0.00
206.50	-10.45	207.50	0.00
206.70	-9.36	207.50	0.00
207.00	-7.39	207.50	0.00
207.20	-5.72	207.50	0.00
207.50	0.00	207.50	0.00
207.70	4.68	207.50	0.00
208.00	7.40	207.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve　　Return Event: 10 years
Label: OS-1B inf　　Storm Event: 10 year
Scenario: Post-Development 10 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
208.20	8.75	207.50	0.00
208.70	11.45	207.50	0.00
209.20	13.64	207.50	0.00
209.70	15.51	207.50	0.00
210.20	17.18	207.50	0.00
210.70	18.71	207.50	0.00
211.20	20.12	207.50	0.00
211.50	20.91	207.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-18.89	208.00	0.00
201.70	-18.89	208.00	0.00
202.20	-18.89	208.00	0.00
202.50	-18.89	208.00	0.00
202.70	-18.89	208.00	0.00
203.00	-18.89	208.00	0.00
203.20	-18.89	208.00	0.00
203.25	-18.89	208.00	0.00
203.50	-18.89	208.00	0.00
203.70	-18.89	208.00	0.00
204.00	-18.89	208.00	0.00
204.20	-18.89	208.00	0.00
204.50	-18.89	208.00	0.00
204.70	-18.89	208.00	0.00
205.00	-18.11	208.00	0.00
205.20	-17.50	208.00	0.00
205.50	-16.53	208.00	0.00
205.70	-15.86	208.00	0.00
206.00	-14.79	208.00	0.00
206.20	-14.03	208.00	0.00
206.50	-12.81	208.00	0.00
206.70	-11.92	208.00	0.00
207.00	-10.45	208.00	0.00
207.20	-9.36	208.00	0.00
207.50	-7.39	208.00	0.00
207.70	-5.72	208.00	0.00
208.00	0.00	208.00	0.00
208.20	4.69	208.00	0.00
208.70	8.75	208.00	0.00
209.20	11.45	208.00	0.00
209.70	13.64	208.00	0.00
210.20	15.51	208.00	0.00
210.70	17.18	208.00	0.00
211.20	18.71	208.00	0.00
211.50	19.57	208.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	202.50	0.00
201.70	0.00	202.50	0.00
202.20	0.00	202.50	0.00
202.50	0.00	202.50	0.00
202.70	0.00	202.50	0.00
203.00	0.00	202.50	0.00
203.20	0.00	202.50	0.00
203.25	0.00	202.50	0.00
203.50	0.16	202.50	0.00
203.70	0.57	202.50	0.00
204.00	1.65	202.50	0.00
204.20	2.59	202.50	0.00
204.50	4.28	202.50	0.00
204.70	5.51	202.50	0.00
205.00	7.33	202.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
205.20	8.42	202.50	0.00
205.50	9.85	202.50	0.00
205.70	10.76	202.50	0.00
206.00	12.06	202.50	0.00
206.20	12.86	202.50	0.00
206.50	14.01	202.50	0.00
206.70	14.74	202.50	0.00
207.00	15.77	202.50	0.00
207.20	16.45	202.50	0.00
207.50	17.40	202.50	0.00
207.70	18.02	202.50	0.00
208.00	18.89	202.50	0.00
208.20	19.45	202.50	0.00
208.70	20.81	202.50	0.00
209.20	22.08	202.50	0.00
209.70	23.28	202.50	0.00
210.20	24.42	202.50	0.00
210.70	25.52	202.50	0.00
211.20	26.57	202.50	0.00
211.50	27.18	202.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
None Contributing
None Contributing
None Contributing
None Contributing
None Contributing
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 25 years
Label: OS-1B inf | Storm Event: 25 year
Scenario: Post-Development 25 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	203.00	0.00
201.70	0.00	203.00	0.00
202.20	0.00	203.00	0.00
202.50	0.00	203.00	0.00
202.70	0.00	203.00	0.00
203.00	0.00	203.00	0.00
203.20	0.00	203.00	0.00
203.25	0.00	203.00	0.00
203.50	0.16	203.00	0.00
203.70	0.57	203.00	0.00
204.00	1.65	203.00	0.00
204.20	2.59	203.00	0.00
204.50	4.28	203.00	0.00
204.70	5.51	203.00	0.00
205.00	7.33	203.00	0.00
205.20	8.42	203.00	0.00
205.50	9.85	203.00	0.00
205.70	10.76	203.00	0.00
206.00	12.06	203.00	0.00
206.20	12.86	203.00	0.00
206.50	14.01	203.00	0.00
206.70	14.74	203.00	0.00
207.00	15.77	203.00	0.00
207.20	16.45	203.00	0.00
207.50	17.40	203.00	0.00
207.70	18.02	203.00	0.00
208.00	18.89	203.00	0.00
208.20	19.45	203.00	0.00
208.70	20.81	203.00	0.00
209.20	22.08	203.00	0.00
209.70	23.28	203.00	0.00
210.20	24.42	203.00	0.00
210.70	25.52	203.00	0.00

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
211.20	26.57	203.00	0.00
211.50	27.18	203.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
None Contributing
None Contributing
None Contributing
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	203.25	0.00
201.70	0.00	203.25	0.00
202.20	0.00	203.25	0.00
202.50	0.00	203.25	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 25 years
Label: OS-1B inf | Storm Event: 25 year
Scenario: Post-Development 25 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
202.70	0.00	203.25	0.00
203.00	0.00	203.25	0.00
203.20	0.00	203.25	0.00
203.25	0.00	203.25	0.00
203.50	0.16	203.25	0.00
203.70	0.57	203.25	0.00
204.00	1.65	203.25	0.00
204.20	2.59	203.25	0.00
204.50	4.28	203.25	0.00
204.70	5.51	203.25	0.00
205.00	7.33	203.25	0.00
205.20	8.42	203.25	0.00
205.50	9.85	203.25	0.00
205.70	10.76	203.25	0.00
206.00	12.06	203.25	0.00
206.20	12.86	203.25	0.00
206.50	14.01	203.25	0.00
206.70	14.74	203.25	0.00
207.00	15.77	203.25	0.00
207.20	16.45	203.25	0.00
207.50	17.40	203.25	0.00
207.70	18.02	203.25	0.00
208.00	18.89	203.25	0.00
208.20	19.45	203.25	0.00
208.70	20.81	203.25	0.00
209.20	22.08	203.25	0.00
209.70	23.28	203.25	0.00
210.20	24.42	203.25	0.00
210.70	25.52	203.25	0.00
211.20	26.57	203.25	0.00
211.50	27.18	203.25	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
None Contributing
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-0.16	203.50	0.00
201.70	-0.16	203.50	0.00
202.20	-0.16	203.50	0.00
202.50	-0.16	203.50	0.00
202.70	-0.16	203.50	0.00
203.00	-0.16	203.50	0.00
203.20	-0.16	203.50	0.00
203.25	-0.16	203.50	0.00
203.50	0.00	203.50	0.00
203.70	0.57	203.50	0.00
204.00	1.65	203.50	0.00
204.20	2.59	203.50	0.00
204.50	4.28	203.50	0.00
204.70	5.51	203.50	0.00
205.00	7.33	203.50	0.00
205.20	8.42	203.50	0.00
205.50	9.85	203.50	0.00
205.70	10.76	203.50	0.00
206.00	12.06	203.50	0.00
206.20	12.86	203.50	0.00
206.50	14.01	203.50	0.00
206.70	14.74	203.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve — Return Event: 25 years
Label: OS-1B inf — Storm Event: 25 year
Scenario: Post-Development 25 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
207.00	15.77	203.50	0.00
207.20	16.45	203.50	0.00
207.50	17.40	203.50	0.00
207.70	18.02	203.50	0.00
208.00	18.89	203.50	0.00
208.20	19.45	203.50	0.00
208.70	20.81	203.50	0.00
209.20	22.08	203.50	0.00
209.70	23.28	203.50	0.00
210.20	24.42	203.50	0.00
210.70	25.52	203.50	0.00
211.20	26.57	203.50	0.00
211.50	27.18	203.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 25 years
Label: OS-1B inf | Storm Event: 25 year
Scenario: Post-Development 25 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-1.65	204.00	0.00
201.70	-1.65	204.00	0.00
202.20	-1.65	204.00	0.00
202.50	-1.65	204.00	0.00
202.70	-1.65	204.00	0.00
203.00	-1.65	204.00	0.00
203.20	-1.65	204.00	0.00
203.25	-1.65	204.00	0.00
203.50	-1.65	204.00	0.00
203.70	-1.65	204.00	0.00
204.00	0.00	204.00	0.00
204.20	2.46	204.00	0.00
204.50	4.28	204.00	0.00
204.70	5.51	204.00	0.00
205.00	7.33	204.00	0.00
205.20	8.42	204.00	0.00
205.50	9.85	204.00	0.00
205.70	10.76	204.00	0.00
206.00	12.06	204.00	0.00
206.20	12.86	204.00	0.00
206.50	14.01	204.00	0.00
206.70	14.74	204.00	0.00
207.00	15.77	204.00	0.00
207.20	16.45	204.00	0.00
207.50	17.40	204.00	0.00
207.70	18.02	204.00	0.00
208.00	18.89	204.00	0.00
208.20	19.45	204.00	0.00
208.70	20.81	204.00	0.00
209.20	22.08	204.00	0.00
209.70	23.28	204.00	0.00
210.20	24.42	204.00	0.00
210.70	25.52	204.00	0.00
211.20	26.57	204.00	0.00
211.50	27.18	204.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-4.28	204.50	0.00
201.70	-4.28	204.50	0.00
202.20	-4.28	204.50	0.00
202.50	-4.28	204.50	0.00
202.70	-4.28	204.50	0.00
203.00	-4.28	204.50	0.00
203.20	-4.28	204.50	0.00
203.25	-4.28	204.50	0.00
203.50	-4.28	204.50	0.00
203.70	-4.28	204.50	0.00
204.00	-4.28	204.50	0.00
204.20	-4.11	204.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
204.50	0.00	204.50	0.00
204.70	4.39	204.50	0.00
205.00	7.02	204.50	0.00
205.20	8.29	204.50	0.00
205.50	9.84	204.50	0.00
205.70	10.76	204.50	0.00
206.00	12.06	204.50	0.00
206.20	12.86	204.50	0.00
206.50	14.01	204.50	0.00
206.70	14.74	204.50	0.00
207.00	15.77	204.50	0.00
207.20	16.45	204.50	0.00
207.50	17.40	204.50	0.00
207.70	18.02	204.50	0.00
208.00	18.89	204.50	0.00
208.20	19.45	204.50	0.00
208.70	20.81	204.50	0.00
209.20	22.08	204.50	0.00
209.70	23.28	204.50	0.00
210.20	24.42	204.50	0.00
210.70	25.52	204.50	0.00
211.20	26.57	204.50	0.00
211.50	27.18	204.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-7.33	205.00	0.00
201.70	-7.33	205.00	0.00
202.20	-7.33	205.00	0.00
202.50	-7.33	205.00	0.00
202.70	-7.33	205.00	0.00
203.00	-7.33	205.00	0.00
203.20	-7.33	205.00	0.00
203.25	-7.33	205.00	0.00
203.50	-7.33	205.00	0.00
203.70	-7.33	205.00	0.00
204.00	-7.33	205.00	0.00
204.20	-7.33	205.00	0.00
204.50	-7.03	205.00	0.00
204.70	-5.75	205.00	0.00
205.00	0.00	205.00	0.00
205.20	4.68	205.00	0.00
205.50	7.39	205.00	0.00
205.70	8.75	205.00	0.00
206.00	10.46	205.00	0.00
206.20	11.45	205.00	0.00
206.50	12.81	205.00	0.00
206.70	13.64	205.00	0.00
207.00	14.79	205.00	0.00
207.20	15.51	205.00	0.00
207.50	16.53	205.00	0.00
207.70	17.18	205.00	0.00
208.00	18.11	205.00	0.00
208.20	18.70	205.00	0.00
208.70	20.11	205.00	0.00
209.20	21.43	205.00	0.00

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
209.70	22.67	205.00	0.00
210.20	23.85	205.00	0.00
210.70	24.97	205.00	0.00
211.20	26.04	205.00	0.00
211.50	26.66	205.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-9.85	205.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 25 years
Label: OS-1B inf | Storm Event: 25 year
Scenario: Post-Development 25 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.70	-9.85	205.50	0.00
202.20	-9.85	205.50	0.00
202.50	-9.85	205.50	0.00
202.70	-9.85	205.50	0.00
203.00	-9.85	205.50	0.00
203.20	-9.85	205.50	0.00
203.25	-9.85	205.50	0.00
203.50	-9.85	205.50	0.00
203.70	-9.85	205.50	0.00
204.00	-9.85	205.50	0.00
204.20	-9.85	205.50	0.00
204.50	-9.85	205.50	0.00
204.70	-9.32	205.50	0.00
205.00	-7.39	205.50	0.00
205.20	-5.72	205.50	0.00
205.50	0.00	205.50	0.00
205.70	4.67	205.50	0.00
206.00	7.39	205.50	0.00
206.20	8.75	205.50	0.00
206.50	10.46	205.50	0.00
206.70	11.46	205.50	0.00
207.00	12.81	205.50	0.00
207.20	13.64	205.50	0.00
207.50	14.79	205.50	0.00
207.70	15.51	205.50	0.00
208.00	16.54	205.50	0.00
208.20	17.19	205.50	0.00
208.70	18.71	205.50	0.00
209.20	20.11	205.50	0.00
209.70	21.43	205.50	0.00
210.20	22.67	205.50	0.00
210.70	23.85	205.50	0.00
211.20	24.97	205.50	0.00
211.50	25.62	205.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 25 years
Label: OS-1B inf | Storm Event: 25 year
Scenario: Post-Development 25 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-12.05	206.00	0.00
201.70	-12.05	206.00	0.00
202.20	-12.05	206.00	0.00
202.50	-12.05	206.00	0.00
202.70	-12.05	206.00	0.00
203.00	-12.05	206.00	0.00
203.20	-12.05	206.00	0.00
203.25	-12.05	206.00	0.00
203.50	-12.05	206.00	0.00
203.70	-12.05	206.00	0.00
204.00	-12.05	206.00	0.00
204.20	-12.05	206.00	0.00
204.50	-12.05	206.00	0.00
204.70	-11.87	206.00	0.00
205.00	-10.45	206.00	0.00
205.20	-9.36	206.00	0.00
205.50	-7.39	206.00	0.00
205.70	-5.72	206.00	0.00
206.00	0.00	206.00	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
206.20	4.68	206.00	0.00
206.50	7.40	206.00	0.00
206.70	8.74	206.00	0.00
207.00	10.46	206.00	0.00
207.20	11.45	206.00	0.00
207.50	12.81	206.00	0.00
207.70	13.64	206.00	0.00
208.00	14.79	206.00	0.00
208.20	15.51	206.00	0.00
208.70	17.18	206.00	0.00
209.20	18.70	206.00	0.00
209.70	20.12	206.00	0.00
210.20	21.43	206.00	0.00
210.70	22.67	206.00	0.00
211.20	23.85	206.00	0.00
211.50	24.53	206.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve — Return Event: 25 years

Label: OS-1B inf — Storm Event: 25 year

Scenario: Post-Development 25 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-14.01	206.50	0.00
201.70	-14.01	206.50	0.00
202.20	-14.01	206.50	0.00
202.50	-14.01	206.50	0.00
202.70	-14.01	206.50	0.00
203.00	-14.01	206.50	0.00
203.20	-14.01	206.50	0.00
203.25	-14.01	206.50	0.00
203.50	-14.01	206.50	0.00
203.70	-14.01	206.50	0.00
204.00	-14.01	206.50	0.00
204.20	-14.01	206.50	0.00
204.50	-14.01	206.50	0.00
204.70	-13.95	206.50	0.00
205.00	-12.81	206.50	0.00
205.20	-11.92	206.50	0.00
205.50	-10.45	206.50	0.00
205.70	-9.36	206.50	0.00
206.00	-7.39	206.50	0.00
206.20	-5.72	206.50	0.00
206.50	0.00	206.50	0.00
206.70	4.67	206.50	0.00
207.00	7.39	206.50	0.00
207.20	8.75	206.50	0.00
207.50	10.46	206.50	0.00
207.70	11.46	206.50	0.00
208.00	12.81	206.50	0.00
208.20	13.64	206.50	0.00
208.70	15.51	206.50	0.00
209.20	17.19	206.50	0.00
209.70	18.71	206.50	0.00
210.20	20.12	206.50	0.00
210.70	21.43	206.50	0.00
211.20	22.67	206.50	0.00
211.50	23.38	206.50	0.00

Contributing Structures
Culvert - 1B inf

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-15.77	207.00	0.00
201.70	-15.77	207.00	0.00
202.20	-15.77	207.00	0.00
202.50	-15.77	207.00	0.00
202.70	-15.77	207.00	0.00
203.00	-15.77	207.00	0.00
203.20	-15.77	207.00	0.00
203.25	-15.77	207.00	0.00
203.50	-15.77	207.00	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
203.70	-15.77	207.00	0.00
204.00	-15.77	207.00	0.00
204.20	-15.77	207.00	0.00
204.50	-15.77	207.00	0.00
204.70	-15.77	207.00	0.00
205.00	-14.79	207.00	0.00
205.20	-14.03	207.00	0.00
205.50	-12.81	207.00	0.00
205.70	-11.92	207.00	0.00
206.00	-10.45	207.00	0.00
206.20	-9.36	207.00	0.00
206.50	-7.39	207.00	0.00
206.70	-5.72	207.00	0.00
207.00	0.00	207.00	0.00
207.20	4.68	207.00	0.00
207.50	7.39	207.00	0.00
207.70	8.75	207.00	0.00
208.00	10.46	207.00	0.00
208.20	11.45	207.00	0.00
208.70	13.63	207.00	0.00
209.20	15.51	207.00	0.00
209.70	17.18	207.00	0.00
210.20	18.71	207.00	0.00
210.70	20.12	207.00	0.00
211.20	21.43	207.00	0.00
211.50	22.18	207.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-17.40	207.50	0.00
201.70	-17.40	207.50	0.00
202.20	-17.40	207.50	0.00
202.50	-17.40	207.50	0.00
202.70	-17.40	207.50	0.00
203.00	-17.40	207.50	0.00
203.20	-17.40	207.50	0.00
203.25	-17.40	207.50	0.00
203.50	-17.40	207.50	0.00
203.70	-17.40	207.50	0.00
204.00	-17.40	207.50	0.00
204.20	-17.40	207.50	0.00
204.50	-17.40	207.50	0.00
204.70	-17.40	207.50	0.00
205.00	-16.53	207.50	0.00
205.20	-15.86	207.50	0.00
205.50	-14.79	207.50	0.00
205.70	-14.03	207.50	0.00
206.00	-12.81	207.50	0.00
206.20	-11.92	207.50	0.00
206.50	-10.45	207.50	0.00
206.70	-9.36	207.50	0.00
207.00	-7.39	207.50	0.00
207.20	-5.72	207.50	0.00
207.50	0.00	207.50	0.00
207.70	4.68	207.50	0.00
208.00	7.40	207.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 25 years
Label: OS-1B inf | Storm Event: 25 year
Scenario: Post-Development 25 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
208.20	8.75	207.50	0.00
208.70	11.45	207.50	0.00
209.20	13.64	207.50	0.00
209.70	15.51	207.50	0.00
210.20	17.18	207.50	0.00
210.70	18.71	207.50	0.00
211.20	20.12	207.50	0.00
211.50	20.91	207.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 25 years
Label: OS-1B inf | Storm Event: 25 year
Scenario: Post-Development 25 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-18.89	208.00	0.00
201.70	-18.89	208.00	0.00
202.20	-18.89	208.00	0.00
202.50	-18.89	208.00	0.00
202.70	-18.89	208.00	0.00
203.00	-18.89	208.00	0.00
203.20	-18.89	208.00	0.00
203.25	-18.89	208.00	0.00
203.50	-18.89	208.00	0.00
203.70	-18.89	208.00	0.00
204.00	-18.89	208.00	0.00
204.20	-18.89	208.00	0.00
204.50	-18.89	208.00	0.00
204.70	-18.89	208.00	0.00
205.00	-18.11	208.00	0.00
205.20	-17.50	208.00	0.00
205.50	-16.53	208.00	0.00
205.70	-15.86	208.00	0.00
206.00	-14.79	208.00	0.00
206.20	-14.03	208.00	0.00
206.50	-12.81	208.00	0.00
206.70	-11.92	208.00	0.00
207.00	-10.45	208.00	0.00
207.20	-9.36	208.00	0.00
207.50	-7.39	208.00	0.00
207.70	-5.72	208.00	0.00
208.00	0.00	208.00	0.00
208.20	4.69	208.00	0.00
208.70	8.75	208.00	0.00
209.20	11.45	208.00	0.00
209.70	13.64	208.00	0.00
210.20	15.51	208.00	0.00
210.70	17.18	208.00	0.00
211.20	18.71	208.00	0.00
211.50	19.57	208.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Subsection: Composite Rating Curve | Return Event: 25 years
Label: OS-1B inf | Storm Event: 25 year
Scenario: Post-Development 25 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Subsection: Composite Rating Curve | Return Event: 100 years
Label: OS-1B inf | Storm Event: 100 year
Scenario: Post-Development 100 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	202.50	0.00
201.70	0.00	202.50	0.00
202.20	0.00	202.50	0.00
202.50	0.00	202.50	0.00
202.70	0.00	202.50	0.00
203.00	0.00	202.50	0.00
203.20	0.00	202.50	0.00
203.25	0.00	202.50	0.00
203.50	0.16	202.50	0.00
203.70	0.57	202.50	0.00
204.00	1.65	202.50	0.00
204.20	2.59	202.50	0.00
204.50	4.28	202.50	0.00
204.70	5.51	202.50	0.00
205.00	7.33	202.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 100 years
Label: OS-1B inf | Storm Event: 100 year
Scenario: Post-Development 100 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
205.20	8.42	202.50	0.00
205.50	9.85	202.50	0.00
205.70	10.76	202.50	0.00
206.00	12.06	202.50	0.00
206.20	12.86	202.50	0.00
206.50	14.01	202.50	0.00
206.70	14.74	202.50	0.00
207.00	15.77	202.50	0.00
207.20	16.45	202.50	0.00
207.50	17.40	202.50	0.00
207.70	18.02	202.50	0.00
208.00	18.89	202.50	0.00
208.20	19.45	202.50	0.00
208.70	20.81	202.50	0.00
209.20	22.08	202.50	0.00
209.70	23.28	202.50	0.00
210.20	24.42	202.50	0.00
210.70	25.52	202.50	0.00
211.20	26.57	202.50	0.00
211.50	27.18	202.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
None Contributing
None Contributing
None Contributing
None Contributing
None Contributing
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 100 years
Label: OS-1B inf | Storm Event: 100 year
Scenario: Post-Development 100 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	203.00	0.00
201.70	0.00	203.00	0.00
202.20	0.00	203.00	0.00
202.50	0.00	203.00	0.00
202.70	0.00	203.00	0.00
203.00	0.00	203.00	0.00
203.20	0.00	203.00	0.00
203.25	0.00	203.00	0.00
203.50	0.16	203.00	0.00
203.70	0.57	203.00	0.00
204.00	1.65	203.00	0.00
204.20	2.59	203.00	0.00
204.50	4.28	203.00	0.00
204.70	5.51	203.00	0.00
205.00	7.33	203.00	0.00
205.20	8.42	203.00	0.00
205.50	9.85	203.00	0.00
205.70	10.76	203.00	0.00
206.00	12.06	203.00	0.00
206.20	12.86	203.00	0.00
206.50	14.01	203.00	0.00
206.70	14.74	203.00	0.00
207.00	15.77	203.00	0.00
207.20	16.45	203.00	0.00
207.50	17.40	203.00	0.00
207.70	18.02	203.00	0.00
208.00	18.89	203.00	0.00
208.20	19.45	203.00	0.00
208.70	20.81	203.00	0.00
209.20	22.08	203.00	0.00
209.70	23.28	203.00	0.00
210.20	24.42	203.00	0.00
210.70	25.52	203.00	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 100 years
Label: OS-1B inf | Storm Event: 100 year
Scenario: Post-Development 100 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
211.20	26.57	203.00	0.00
211.50	27.18	203.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
None Contributing
None Contributing
None Contributing
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	0.00	203.25	0.00
201.70	0.00	203.25	0.00
202.20	0.00	203.25	0.00
202.50	0.00	203.25	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
202.70	0.00	203.25	0.00
203.00	0.00	203.25	0.00
203.20	0.00	203.25	0.00
203.25	0.00	203.25	0.00
203.50	0.16	203.25	0.00
203.70	0.57	203.25	0.00
204.00	1.65	203.25	0.00
204.20	2.59	203.25	0.00
204.50	4.28	203.25	0.00
204.70	5.51	203.25	0.00
205.00	7.33	203.25	0.00
205.20	8.42	203.25	0.00
205.50	9.85	203.25	0.00
205.70	10.76	203.25	0.00
206.00	12.06	203.25	0.00
206.20	12.86	203.25	0.00
206.50	14.01	203.25	0.00
206.70	14.74	203.25	0.00
207.00	15.77	203.25	0.00
207.20	16.45	203.25	0.00
207.50	17.40	203.25	0.00
207.70	18.02	203.25	0.00
208.00	18.89	203.25	0.00
208.20	19.45	203.25	0.00
208.70	20.81	203.25	0.00
209.20	22.08	203.25	0.00
209.70	23.28	203.25	0.00
210.20	24.42	203.25	0.00
210.70	25.52	203.25	0.00
211.20	26.57	203.25	0.00
211.50	27.18	203.25	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
None Contributing
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-0.16	203.50	0.00
201.70	-0.16	203.50	0.00
202.20	-0.16	203.50	0.00
202.50	-0.16	203.50	0.00
202.70	-0.16	203.50	0.00
203.00	-0.16	203.50	0.00
203.20	-0.16	203.50	0.00
203.25	-0.16	203.50	0.00
203.50	0.00	203.50	0.00
203.70	0.57	203.50	0.00
204.00	1.65	203.50	0.00
204.20	2.59	203.50	0.00
204.50	4.28	203.50	0.00
204.70	5.51	203.50	0.00
205.00	7.33	203.50	0.00
205.20	8.42	203.50	0.00
205.50	9.85	203.50	0.00
205.70	10.76	203.50	0.00
206.00	12.06	203.50	0.00
206.20	12.86	203.50	0.00
206.50	14.01	203.50	0.00
206.70	14.74	203.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 100 years
Label: OS-1B inf | Storm Event: 100 year
Scenario: Post-Development 100 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
207.00	15.77	203.50	0.00
207.20	16.45	203.50	0.00
207.50	17.40	203.50	0.00
207.70	18.02	203.50	0.00
208.00	18.89	203.50	0.00
208.20	19.45	203.50	0.00
208.70	20.81	203.50	0.00
209.20	22.08	203.50	0.00
209.70	23.28	203.50	0.00
210.20	24.42	203.50	0.00
210.70	25.52	203.50	0.00
211.20	26.57	203.50	0.00
211.50	27.18	203.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-1.65	204.00	0.00
201.70	-1.65	204.00	0.00
202.20	-1.65	204.00	0.00
202.50	-1.65	204.00	0.00
202.70	-1.65	204.00	0.00
203.00	-1.65	204.00	0.00
203.20	-1.65	204.00	0.00
203.25	-1.65	204.00	0.00
203.50	-1.65	204.00	0.00
203.70	-1.65	204.00	0.00
204.00	0.00	204.00	0.00
204.20	2.46	204.00	0.00
204.50	4.28	204.00	0.00
204.70	5.51	204.00	0.00
205.00	7.33	204.00	0.00
205.20	8.42	204.00	0.00
205.50	9.85	204.00	0.00
205.70	10.76	204.00	0.00
206.00	12.06	204.00	0.00
206.20	12.86	204.00	0.00
206.50	14.01	204.00	0.00
206.70	14.74	204.00	0.00
207.00	15.77	204.00	0.00
207.20	16.45	204.00	0.00
207.50	17.40	204.00	0.00
207.70	18.02	204.00	0.00
208.00	18.89	204.00	0.00
208.20	19.45	204.00	0.00
208.70	20.81	204.00	0.00
209.20	22.08	204.00	0.00
209.70	23.28	204.00	0.00
210.20	24.42	204.00	0.00
210.70	25.52	204.00	0.00
211.20	26.57	204.00	0.00
211.50	27.18	204.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 100 years
Label: OS-1B inf | Storm Event: 100 year
Scenario: Post-Development 100 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-4.28	204.50	0.00
201.70	-4.28	204.50	0.00
202.20	-4.28	204.50	0.00
202.50	-4.28	204.50	0.00
202.70	-4.28	204.50	0.00
203.00	-4.28	204.50	0.00
203.20	-4.28	204.50	0.00
203.25	-4.28	204.50	0.00
203.50	-4.28	204.50	0.00
203.70	-4.28	204.50	0.00
204.00	-4.28	204.50	0.00
204.20	-4.11	204.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 100 years
Label: OS-1B inf | Storm Event: 100 year
Scenario: Post-Development 100 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
204.50	0.00	204.50	0.00
204.70	4.39	204.50	0.00
205.00	7.02	204.50	0.00
205.20	8.29	204.50	0.00
205.50	9.84	204.50	0.00
205.70	10.76	204.50	0.00
206.00	12.06	204.50	0.00
206.20	12.86	204.50	0.00
206.50	14.01	204.50	0.00
206.70	14.74	204.50	0.00
207.00	15.77	204.50	0.00
207.20	16.45	204.50	0.00
207.50	17.40	204.50	0.00
207.70	18.02	204.50	0.00
208.00	18.89	204.50	0.00
208.20	19.45	204.50	0.00
208.70	20.81	204.50	0.00
209.20	22.08	204.50	0.00
209.70	23.28	204.50	0.00
210.20	24.42	204.50	0.00
210.70	25.52	204.50	0.00
211.20	26.57	204.50	0.00
211.50	27.18	204.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-7.33	205.00	0.00
201.70	-7.33	205.00	0.00
202.20	-7.33	205.00	0.00
202.50	-7.33	205.00	0.00
202.70	-7.33	205.00	0.00
203.00	-7.33	205.00	0.00
203.20	-7.33	205.00	0.00
203.25	-7.33	205.00	0.00
203.50	-7.33	205.00	0.00
203.70	-7.33	205.00	0.00
204.00	-7.33	205.00	0.00
204.20	-7.33	205.00	0.00
204.50	-7.03	205.00	0.00
204.70	-5.75	205.00	0.00
205.00	0.00	205.00	0.00
205.20	4.68	205.00	0.00
205.50	7.39	205.00	0.00
205.70	8.75	205.00	0.00
206.00	10.46	205.00	0.00
206.20	11.45	205.00	0.00
206.50	12.81	205.00	0.00
206.70	13.64	205.00	0.00
207.00	14.79	205.00	0.00
207.20	15.51	205.00	0.00
207.50	16.53	205.00	0.00
207.70	17.18	205.00	0.00
208.00	18.11	205.00	0.00
208.20	18.70	205.00	0.00
208.70	20.11	205.00	0.00
209.20	21.43	205.00	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve — Return Event: 100 years
Label: OS-1B inf — Storm Event: 100 year
Scenario: Post-Development 100 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
209.70	22.67	205.00	0.00
210.20	23.85	205.00	0.00
210.70	24.97	205.00	0.00
211.20	26.04	205.00	0.00
211.50	26.66	205.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-9.85	205.50	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.70	-9.85	205.50	0.00
202.20	-9.85	205.50	0.00
202.50	-9.85	205.50	0.00
202.70	-9.85	205.50	0.00
203.00	-9.85	205.50	0.00
203.20	-9.85	205.50	0.00
203.25	-9.85	205.50	0.00
203.50	-9.85	205.50	0.00
203.70	-9.85	205.50	0.00
204.00	-9.85	205.50	0.00
204.20	-9.85	205.50	0.00
204.50	-9.85	205.50	0.00
204.70	-9.32	205.50	0.00
205.00	-7.39	205.50	0.00
205.20	-5.72	205.50	0.00
205.50	0.00	205.50	0.00
205.70	4.67	205.50	0.00
206.00	7.39	205.50	0.00
206.20	8.75	205.50	0.00
206.50	10.46	205.50	0.00
206.70	11.46	205.50	0.00
207.00	12.81	205.50	0.00
207.20	13.64	205.50	0.00
207.50	14.79	205.50	0.00
207.70	15.51	205.50	0.00
208.00	16.54	205.50	0.00
208.20	17.19	205.50	0.00
208.70	18.71	205.50	0.00
209.20	20.11	205.50	0.00
209.70	21.43	205.50	0.00
210.20	22.67	205.50	0.00
210.70	23.85	205.50	0.00
211.20	24.97	205.50	0.00
211.50	25.62	205.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-12.05	206.00	0.00
201.70	-12.05	206.00	0.00
202.20	-12.05	206.00	0.00
202.50	-12.05	206.00	0.00
202.70	-12.05	206.00	0.00
203.00	-12.05	206.00	0.00
203.20	-12.05	206.00	0.00
203.25	-12.05	206.00	0.00
203.50	-12.05	206.00	0.00
203.70	-12.05	206.00	0.00
204.00	-12.05	206.00	0.00
204.20	-12.05	206.00	0.00
204.50	-12.05	206.00	0.00
204.70	-11.87	206.00	0.00
205.00	-10.45	206.00	0.00
205.20	-9.36	206.00	0.00
205.50	-7.39	206.00	0.00
205.70	-5.72	206.00	0.00
206.00	0.00	206.00	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 100 years
Label: OS-1B inf | Storm Event: 100 year
Scenario: Post-Development 100 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
206.20	4.68	206.00	0.00
206.50	7.40	206.00	0.00
206.70	8.74	206.00	0.00
207.00	10.46	206.00	0.00
207.20	11.45	206.00	0.00
207.50	12.81	206.00	0.00
207.70	13.64	206.00	0.00
208.00	14.79	206.00	0.00
208.20	15.51	206.00	0.00
208.70	17.18	206.00	0.00
209.20	18.70	206.00	0.00
209.70	20.12	206.00	0.00
210.20	21.43	206.00	0.00
210.70	22.67	206.00	0.00
211.20	23.85	206.00	0.00
211.50	24.53	206.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 100 years
Label: OS-1B inf | Storm Event: 100 year
Scenario: Post-Development 100 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-14.01	206.50	0.00
201.70	-14.01	206.50	0.00
202.20	-14.01	206.50	0.00
202.50	-14.01	206.50	0.00
202.70	-14.01	206.50	0.00
203.00	-14.01	206.50	0.00
203.20	-14.01	206.50	0.00
203.25	-14.01	206.50	0.00
203.50	-14.01	206.50	0.00
203.70	-14.01	206.50	0.00
204.00	-14.01	206.50	0.00
204.20	-14.01	206.50	0.00
204.50	-14.01	206.50	0.00
204.70	-13.95	206.50	0.00
205.00	-12.81	206.50	0.00
205.20	-11.92	206.50	0.00
205.50	-10.45	206.50	0.00
205.70	-9.36	206.50	0.00
206.00	-7.39	206.50	0.00
206.20	-5.72	206.50	0.00
206.50	0.00	206.50	0.00
206.70	4.67	206.50	0.00
207.00	7.39	206.50	0.00
207.20	8.75	206.50	0.00
207.50	10.46	206.50	0.00
207.70	11.46	206.50	0.00
208.00	12.81	206.50	0.00
208.20	13.64	206.50	0.00
208.70	15.51	206.50	0.00
209.20	17.19	206.50	0.00
209.70	18.71	206.50	0.00
210.20	20.12	206.50	0.00
210.70	21.43	206.50	0.00
211.20	22.67	206.50	0.00
211.50	23.38	206.50	0.00

Contributing Structures
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve — Return Event: 100 years
Label: OS-1B inf — Storm Event: 100 year
Scenario: Post-Development 100 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-15.77	207.00	0.00
201.70	-15.77	207.00	0.00
202.20	-15.77	207.00	0.00
202.50	-15.77	207.00	0.00
202.70	-15.77	207.00	0.00
203.00	-15.77	207.00	0.00
203.20	-15.77	207.00	0.00
203.25	-15.77	207.00	0.00
203.50	-15.77	207.00	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve Return Event: 100 years
Label: OS-1B inf Storm Event: 100 year
Scenario: Post-Development 100 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
203.70	-15.77	207.00	0.00
204.00	-15.77	207.00	0.00
204.20	-15.77	207.00	0.00
204.50	-15.77	207.00	0.00
204.70	-15.77	207.00	0.00
205.00	-14.79	207.00	0.00
205.20	-14.03	207.00	0.00
205.50	-12.81	207.00	0.00
205.70	-11.92	207.00	0.00
206.00	-10.45	207.00	0.00
206.20	-9.36	207.00	0.00
206.50	-7.39	207.00	0.00
206.70	-5.72	207.00	0.00
207.00	0.00	207.00	0.00
207.20	4.68	207.00	0.00
207.50	7.39	207.00	0.00
207.70	8.75	207.00	0.00
208.00	10.46	207.00	0.00
208.20	11.45	207.00	0.00
208.70	13.63	207.00	0.00
209.20	15.51	207.00	0.00
209.70	17.18	207.00	0.00
210.20	18.71	207.00	0.00
210.70	20.12	207.00	0.00
211.20	21.43	207.00	0.00
211.50	22.18	207.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 100 years
Label: OS-1B inf | Storm Event: 100 year
Scenario: Post-Development 100 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-17.40	207.50	0.00
201.70	-17.40	207.50	0.00
202.20	-17.40	207.50	0.00
202.50	-17.40	207.50	0.00
202.70	-17.40	207.50	0.00
203.00	-17.40	207.50	0.00
203.20	-17.40	207.50	0.00
203.25	-17.40	207.50	0.00
203.50	-17.40	207.50	0.00
203.70	-17.40	207.50	0.00
204.00	-17.40	207.50	0.00
204.20	-17.40	207.50	0.00
204.50	-17.40	207.50	0.00
204.70	-17.40	207.50	0.00
205.00	-16.53	207.50	0.00
205.20	-15.86	207.50	0.00
205.50	-14.79	207.50	0.00
205.70	-14.03	207.50	0.00
206.00	-12.81	207.50	0.00
206.20	-11.92	207.50	0.00
206.50	-10.45	207.50	0.00
206.70	-9.36	207.50	0.00
207.00	-7.39	207.50	0.00
207.20	-5.72	207.50	0.00
207.50	0.00	207.50	0.00
207.70	4.68	207.50	0.00
208.00	7.40	207.50	0.00

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
208.20	8.75	207.50	0.00
208.70	11.45	207.50	0.00
209.20	13.64	207.50	0.00
209.70	15.51	207.50	0.00
210.20	17.18	207.50	0.00
210.70	18.71	207.50	0.00
211.20	20.12	207.50	0.00
211.50	20.91	207.50	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Composite Outflow Summary

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1B inf
Scenario: Post-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
201.20	-18.89	208.00	0.00
201.70	-18.89	208.00	0.00
202.20	-18.89	208.00	0.00
202.50	-18.89	208.00	0.00
202.70	-18.89	208.00	0.00
203.00	-18.89	208.00	0.00
203.20	-18.89	208.00	0.00
203.25	-18.89	208.00	0.00
203.50	-18.89	208.00	0.00
203.70	-18.89	208.00	0.00
204.00	-18.89	208.00	0.00
204.20	-18.89	208.00	0.00
204.50	-18.89	208.00	0.00
204.70	-18.89	208.00	0.00
205.00	-18.11	208.00	0.00
205.20	-17.50	208.00	0.00
205.50	-16.53	208.00	0.00
205.70	-15.86	208.00	0.00
206.00	-14.79	208.00	0.00
206.20	-14.03	208.00	0.00
206.50	-12.81	208.00	0.00
206.70	-11.92	208.00	0.00
207.00	-10.45	208.00	0.00
207.20	-9.36	208.00	0.00
207.50	-7.39	208.00	0.00
207.70	-5.72	208.00	0.00
208.00	0.00	208.00	0.00
208.20	4.69	208.00	0.00
208.70	8.75	208.00	0.00
209.20	11.45	208.00	0.00
209.70	13.64	208.00	0.00
210.20	15.51	208.00	0.00
210.70	17.18	208.00	0.00
211.20	18.71	208.00	0.00
211.50	19.57	208.00	0.00

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 100 years
Label: OS-1B inf | Storm Event: 100 year
Scenario: Post-Development 100 year

Composite Outflow Summary

Contributing Structures
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
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Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf
Culvert - 1B inf

Subsection: Composite Rating Curve | Return Event: 1 years
Label: OS-1C | Storm Event: 1 year
Scenario: Post-Development 1 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
212.00	0.00	(N/A)	0.00
212.45	0.00	(N/A)	0.00
212.50	0.13	(N/A)	0.00
213.00	4.89	(N/A)	0.00
213.50	9.33	(N/A)	0.00
214.00	11.31	(N/A)	0.00

Contributing Structures
(no Q: Weir - 1C,Culvert - 1C)
(no Q: Weir - 1C,Culvert - 1C)
Weir - 1C,Culvert - 1C
Weir - 1C,Culvert - 1C
Weir - 1C,Culvert - 1C
Weir - 1C,Culvert - 1C

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve — Return Event: 2 years
Label: OS-1C — Storm Event: 2 year
Scenario: Post-Development 2 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
212.00	0.00	(N/A)	0.00
212.45	0.00	(N/A)	0.00
212.50	0.13	(N/A)	0.00
213.00	4.89	(N/A)	0.00
213.50	9.33	(N/A)	0.00
214.00	11.31	(N/A)	0.00

Contributing Structures
(no Q: Weir - 1C,Culvert - 1C)
(no Q: Weir - 1C,Culvert - 1C)
Weir - 1C,Culvert - 1C
Weir - 1C,Culvert - 1C
Weir - 1C,Culvert - 1C
Weir - 1C,Culvert - 1C

Subsection: Composite Rating Curve — Return Event: 10 years
Label: OS-1C — Storm Event: 10 year
Scenario: Post-Development 10 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
212.00	0.00	(N/A)	0.00
212.45	0.00	(N/A)	0.00
212.50	0.13	(N/A)	0.00
213.00	4.89	(N/A)	0.00
213.50	9.33	(N/A)	0.00
214.00	11.31	(N/A)	0.00

Contributing Structures
(no Q: Weir - 1C,Culvert - 1C)
(no Q: Weir - 1C,Culvert - 1C)
Weir - 1C,Culvert - 1C
Weir - 1C,Culvert - 1C
Weir - 1C,Culvert - 1C
Weir - 1C,Culvert - 1C

Subsection: Composite Rating Curve — Return Event: 25 years
Label: OS-1C — Storm Event: 25 year
Scenario: Post-Development 25 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)

Subsection: Composite Rating Curve | Return Event: 25 years
Label: OS-1C | Storm Event: 25 year
Scenario: Post-Development 25 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
212.00	0.00	(N/A)	0.00
212.45	0.00	(N/A)	0.00
212.50	0.13	(N/A)	0.00
213.00	4.89	(N/A)	0.00
213.50	9.33	(N/A)	0.00
214.00	11.31	(N/A)	0.00

Contributing Structures
(no Q: Weir - 1C,Culvert - 1C)
(no Q: Weir - 1C,Culvert - 1C)
Weir - 1C,Culvert - 1C
Weir - 1C,Culvert - 1C
Weir - 1C,Culvert - 1C
Weir - 1C,Culvert - 1C

Subsection: Composite Rating Curve | Return Event: 100 years
Label: OS-1C | Storm Event: 100 year
Scenario: Post-Development 100 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
212.00	0.00	(N/A)	0.00
212.45	0.00	(N/A)	0.00
212.50	0.13	(N/A)	0.00
213.00	4.89	(N/A)	0.00
213.50	9.33	(N/A)	0.00
214.00	11.31	(N/A)	0.00

Contributing Structures
(no Q: Weir - 1C,Culvert - 1C)
(no Q: Weir - 1C,Culvert - 1C)
Weir - 1C,Culvert - 1C
Weir - 1C,Culvert - 1C
Weir - 1C,Culvert - 1C
Weir - 1C,Culvert - 1C

Subsection: Composite Rating Curve | Return Event: 1 years
Label: OS-1D | Storm Event: 1 year
Scenario: Post-Development 1 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1D
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
214.00	0.00	(N/A)	0.00
214.50	0.00	(N/A)	0.00
215.00	0.00	(N/A)	0.00
215.50	0.00	(N/A)	0.00
215.80	0.00	(N/A)	0.00
216.00	0.40	(N/A)	0.00
216.50	2.64	(N/A)	0.00
217.00	5.91	(N/A)	0.00
217.50	9.83	(N/A)	0.00
218.00	13.34	(N/A)	0.00
218.50	16.31	(N/A)	0.00
219.00	18.79	(N/A)	0.00
219.50	20.95	(N/A)	0.00
220.00	22.29	(N/A)	0.00

Contributing Structures
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D

Subsection: Composite Rating Curve
Label: OS-1D
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
214.00	0.00	(N/A)	0.00
214.50	0.00	(N/A)	0.00
215.00	0.00	(N/A)	0.00
215.50	0.00	(N/A)	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1D
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
215.80	0.00	(N/A)	0.00
216.00	0.40	(N/A)	0.00
216.50	2.64	(N/A)	0.00
217.00	5.91	(N/A)	0.00
217.50	9.83	(N/A)	0.00
218.00	13.34	(N/A)	0.00
218.50	16.31	(N/A)	0.00
219.00	18.79	(N/A)	0.00
219.50	20.95	(N/A)	0.00
220.00	22.29	(N/A)	0.00

Contributing Structures
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D

Subsection: Composite Rating Curve
Label: OS-1D
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)
214.00	0.00	(N/A)	0.00
214.50	0.00	(N/A)	0.00
215.00	0.00	(N/A)	0.00
215.50	0.00	(N/A)	0.00
215.80	0.00	(N/A)	0.00
216.00	0.40	(N/A)	0.00
216.50	2.64	(N/A)	0.00
217.00	5.91	(N/A)	0.00

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 10 years
Label: OS-1D | Storm Event: 10 year
Scenario: Post-Development 10 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
217.50	9.83	(N/A)	0.00
218.00	13.34	(N/A)	0.00
218.50	16.31	(N/A)	0.00
219.00	18.79	(N/A)	0.00
219.50	20.95	(N/A)	0.00
220.00	22.29	(N/A)	0.00

Contributing Structures
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D

Subsection: Composite Rating Curve | Return Event: 25 years
Label: OS-1D | Storm Event: 25 year
Scenario: Post-Development 25 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
214.00	0.00	(N/A)	0.00
214.50	0.00	(N/A)	0.00
215.00	0.00	(N/A)	0.00
215.50	0.00	(N/A)	0.00
215.80	0.00	(N/A)	0.00
216.00	0.40	(N/A)	0.00
216.50	2.64	(N/A)	0.00
217.00	5.91	(N/A)	0.00
217.50	9.83	(N/A)	0.00
218.00	13.34	(N/A)	0.00
218.50	16.31	(N/A)	0.00
219.00	18.79	(N/A)	0.00

Subsection: Composite Rating Curve | Return Event: 25 years
Label: OS-1D | Storm Event: 25 year
Scenario: Post-Development 25 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
219.50	20.95	(N/A)	0.00
220.00	22.29	(N/A)	0.00

Contributing Structures
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D

Subsection: Composite Rating Curve | Return Event: 100 years
Label: OS-1D | Storm Event: 100 year
Scenario: Post-Development 100 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
214.00	0.00	(N/A)	0.00
214.50	0.00	(N/A)	0.00
215.00	0.00	(N/A)	0.00
215.50	0.00	(N/A)	0.00
215.80	0.00	(N/A)	0.00
216.00	0.40	(N/A)	0.00
216.50	2.64	(N/A)	0.00
217.00	5.91	(N/A)	0.00
217.50	9.83	(N/A)	0.00
218.00	13.34	(N/A)	0.00
218.50	16.31	(N/A)	0.00
219.00	18.79	(N/A)	0.00
219.50	20.95	(N/A)	0.00
220.00	22.29	(N/A)	0.00

Contributing Structures

Subsection: Composite Rating Curve
Label: OS-1D
Scenario: Post-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Composite Outflow Summary

Contributing Structures
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
(no Q: Weir - 1D,Culvert - 1D)
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D
Weir - 1D,Culvert - 1D

Subsection: Composite Rating Curve
Label: OS-1E
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
238.00	0.00	(N/A)	0.00
238.50	0.00	(N/A)	0.00
239.00	0.00	(N/A)	0.00
239.50	0.00	(N/A)	0.00
239.90	0.00	(N/A)	0.00
240.00	0.24	(N/A)	0.00
240.50	3.49	(N/A)	0.00
241.00	8.65	(N/A)	0.00
241.50	14.81	(N/A)	0.00
242.00	20.64	(N/A)	0.00
242.50	26.06	(N/A)	0.00
243.00	30.67	(N/A)	0.00
243.50	34.68	(N/A)	0.00
244.00	38.16	(N/A)	0.00

Contributing Structures
(no Q: Weir - 1E,Culvert - 1E)
(no Q: Weir - 1E,Culvert - 1E)
(no Q: Weir - 1E,Culvert - 1E)

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve — Return Event: 1 years
Label: OS-1E — Storm Event: 1 year
Scenario: Post-Development 1 year

Composite Outflow Summary

Contributing Structures
(no Q: Weir - 1E,Culvert - 1E)
(no Q: Weir - 1E,Culvert - 1E)
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E

Subsection: Composite Rating Curve — Return Event: 2 years
Label: OS-1E — Storm Event: 2 year
Scenario: Post-Development 2 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
238.00	0.00	(N/A)	0.00
238.50	0.00	(N/A)	0.00
239.00	0.00	(N/A)	0.00
239.50	0.00	(N/A)	0.00
239.90	0.00	(N/A)	0.00
240.00	0.24	(N/A)	0.00
240.50	3.49	(N/A)	0.00
241.00	8.65	(N/A)	0.00
241.50	14.81	(N/A)	0.00
242.00	20.64	(N/A)	0.00
242.50	26.06	(N/A)	0.00
243.00	30.67	(N/A)	0.00
243.50	34.68	(N/A)	0.00
244.00	38.16	(N/A)	0.00

Contributing Structures
(no Q: Weir - 1E,Culvert - 1E)
(no Q: Weir - 1E,Culvert - 1E)
(no Q: Weir - 1E,Culvert - 1E)
(no Q: Weir - 1E,Culvert - 1E)
(no Q: Weir - 1E,Culvert - 1E)
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E

Subsection: Composite Rating Curve — Return Event: 2 years
Label: OS-1E — Storm Event: 2 year
Scenario: Post-Development 2 year

Composite Outflow Summary

Contributing Structures
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E

Subsection: Composite Rating Curve — Return Event: 10 years
Label: OS-1E — Storm Event: 10 year
Scenario: Post-Development 10 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
238.00	0.00	(N/A)	0.00
238.50	0.00	(N/A)	0.00
239.00	0.00	(N/A)	0.00
239.50	0.00	(N/A)	0.00
239.90	0.00	(N/A)	0.00
240.00	0.24	(N/A)	0.00
240.50	3.49	(N/A)	0.00
241.00	8.65	(N/A)	0.00
241.50	14.81	(N/A)	0.00
242.00	20.64	(N/A)	0.00
242.50	26.06	(N/A)	0.00
243.00	30.67	(N/A)	0.00
243.50	34.68	(N/A)	0.00
244.00	38.16	(N/A)	0.00

Contributing Structures
(no Q: Weir - 1E,Culvert - 1E)
(no Q: Weir - 1E,Culvert - 1E)
(no Q: Weir - 1E,Culvert - 1E)
(no Q: Weir - 1E,Culvert - 1E)
(no Q: Weir - 1E,Culvert - 1E)
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve | Return Event: 10 years
Label: OS-1E | Storm Event: 10 year
Scenario: Post-Development 10 year

Composite Outflow Summary

Contributing Structures
Weir - 1E,Culvert - 1E

Subsection: Composite Rating Curve | Return Event: 25 years
Label: OS-1E | Storm Event: 25 year
Scenario: Post-Development 25 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)	Contributing Structures
238.00	0.00	(N/A)	0.00	(no Q: Weir - 1E,Culvert - 1E)
238.50	0.00	(N/A)	0.00	(no Q: Weir - 1E,Culvert - 1E)
239.00	0.00	(N/A)	0.00	(no Q: Weir - 1E,Culvert - 1E)
239.50	0.00	(N/A)	0.00	(no Q: Weir - 1E,Culvert - 1E)
239.90	0.00	(N/A)	0.00	(no Q: Weir - 1E,Culvert - 1E)
240.00	0.24	(N/A)	0.00	Weir - 1E,Culvert - 1E
240.50	3.49	(N/A)	0.00	Weir - 1E,Culvert - 1E
241.00	8.65	(N/A)	0.00	Weir - 1E,Culvert - 1E
241.50	14.81	(N/A)	0.00	Weir - 1E,Culvert - 1E
242.00	20.64	(N/A)	0.00	Weir - 1E,Culvert - 1E
242.50	26.06	(N/A)	0.00	Weir - 1E,Culvert - 1E
243.00	30.67	(N/A)	0.00	Weir - 1E,Culvert - 1E
243.50	34.68	(N/A)	0.00	Weir - 1E,Culvert - 1E
244.00	38.16	(N/A)	0.00	Weir - 1E,Culvert - 1E

Subsection: Composite Rating Curve | Return Event: 100 years
Label: OS-1E | Storm Event: 100 year
Scenario: Post-Development 100 year

Proposed Hydrologic Calculations Report

Subsection: Composite Rating Curve
Label: OS-1E
Scenario: Post-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
238.00	0.00	(N/A)	0.00
238.50	0.00	(N/A)	0.00
239.00	0.00	(N/A)	0.00
239.50	0.00	(N/A)	0.00
239.90	0.00	(N/A)	0.00
240.00	0.24	(N/A)	0.00
240.50	3.49	(N/A)	0.00
241.00	8.65	(N/A)	0.00
241.50	14.81	(N/A)	0.00
242.00	20.64	(N/A)	0.00
242.50	26.06	(N/A)	0.00
243.00	30.67	(N/A)	0.00
243.50	34.68	(N/A)	0.00
244.00	38.16	(N/A)	0.00

Contributing Structures
(no Q: Weir - 1E,Culvert - 1E)
(no Q: Weir - 1E,Culvert - 1E)
(no Q: Weir - 1E,Culvert - 1E)
(no Q: Weir - 1E,Culvert - 1E)
(no Q: Weir - 1E,Culvert - 1E)
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E
Weir - 1E,Culvert - 1E

Subsection: Elevation-Volume-Flow Table (Pond)
Label: IB-1C
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Infiltration

Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	1.41 ft^3/s

Initial Conditions

Elevation (Water Surface, Initial)	212.00 ft

Proposed Hydrologic Calculations Report

Subsection: Elevation-Volume-Flow Table (Pond)
Label: IB-1C
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Initial Conditions	
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
212.00	0.00	0.000	0.070	0.00	0.00	0.00
212.45	0.00	1,425.883	0.076	1.41	1.41	17.25
212.50	0.13	1,591.284	0.076	1.41	1.54	19.23
213.00	4.89	3,324.158	0.083	1.41	6.30	43.24
213.50	9.33	5,204.657	0.090	1.41	10.74	68.57
214.00	11.31	7,238.815	0.097	1.41	12.72	93.15

Subsection: Elevation-Volume-Flow Table (Pond)
Label: IB-1C
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	1.41 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	212.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
212.00	0.00	0.000	0.070	0.00	0.00	0.00
212.45	0.00	1,425.883	0.076	1.41	1.41	17.25
212.50	0.13	1,591.284	0.076	1.41	1.54	19.23
213.00	4.89	3,324.158	0.083	1.41	6.30	43.24
213.50	9.33	5,204.657	0.090	1.41	10.74	68.57
214.00	11.31	7,238.815	0.097	1.41	12.72	93.15

Subsection: Elevation-Volume-Flow Table (Pond) | Return Event: 10 years
Label: IB-1C | Storm Event: 10 year
Scenario: Post-Development 10 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	1.41 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	212.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
212.00	0.00	0.000	0.070	0.00	0.00	0.00
212.45	0.00	1,425.883	0.076	1.41	1.41	17.25
212.50	0.13	1,591.284	0.076	1.41	1.54	19.23
213.00	4.89	3,324.158	0.083	1.41	6.30	43.24
213.50	9.33	5,204.657	0.090	1.41	10.74	68.57
214.00	11.31	7,238.815	0.097	1.41	12.72	93.15

Subsection: Elevation-Volume-Flow Table (Pond) | Return Event: 25 years
Label: IB-1C | Storm Event: 25 year
Scenario: Post-Development 25 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	1.41 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	212.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
212.00	0.00	0.000	0.070	0.00	0.00	0.00
212.45	0.00	1,425.883	0.076	1.41	1.41	17.25

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 25 years
Label: IB-1C Storm Event: 25 year
Scenario: Post-Development 25 year

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
212.50	0.13	1,591.284	0.076	1.41	1.54	19.23
213.00	4.89	3,324.158	0.083	1.41	6.30	43.24
213.50	9.33	5,204.657	0.090	1.41	10.74	68.57
214.00	11.31	7,238.815	0.097	1.41	12.72	93.15

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 100 years
Label: IB-1C Storm Event: 100 year
Scenario: Post-Development 100 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	1.41 ft^3/s

Initial Conditions	
Elevation (Water Surface, Initial)	212.00 ft
Volume (Initial)	0.000 ft^3
Flow (Initial Outlet)	0.00 ft^3/s
Flow (Initial Infiltration)	0.00 ft^3/s
Flow (Initial, Total)	0.00 ft^3/s
Time Increment	0.050 hours

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
212.00	0.00	0.000	0.070	0.00	0.00	0.00
212.45	0.00	1,425.883	0.076	1.41	1.41	17.25
212.50	0.13	1,591.284	0.076	1.41	1.54	19.23
213.00	4.89	3,324.158	0.083	1.41	6.30	43.24
213.50	9.33	5,204.657	0.090	1.41	10.74	68.57
214.00	11.31	7,238.815	0.097	1.41	12.72	93.15

Subsection: Level Pool Pond Routing Summary Return Event: 1 years
Label: IB-1C (IN) Storm Event: 1 year
Scenario: Post-Development 1 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	1.41 ft^3/s

Initial Conditions

Proposed Hydrologic Calculations Report

Subsection: Level Pool Pond Routing Summary | Return Event: 1 years
Label: IB-1C (IN) | Storm Event: 1 year
Scenario: Post-Development 1 year

Initial Conditions	
Elevation (Water Surface, Initial)	212.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	1.94 ft³/s	Time to Peak (Flow, In)	12.100 hours
Infiltration (Peak)	1.20 ft³/s	Time to Peak (Infiltration)	12.200 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.000 hours

Elevation (Water Surface, Peak)	212.38 ft
Volume (Peak)	1,203.548 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	6,887.000 ft³
Volume (Total Infiltration)	6,867.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	19.000 ft³
Volume (Unrouted)	-1.000 ft³
Error (Mass Balance)	0.0 %

Subsection: Level Pool Pond Routing Summary | Return Event: 2 years
Label: IB-1C (IN) | Storm Event: 2 year
Scenario: Post-Development 2 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	1.41 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	212.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary

Proposed Hydrologic Calculations Report

Subsection: Level Pool Pond Routing Summary — Return Event: 2 years
Label: IB-1C (IN) — Storm Event: 2 year
Scenario: Post-Development 2 year

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	2.47 ft³/s	Time to Peak (Flow, In)	12.100 hours
Infiltration (Peak)	1.41 ft³/s	Time to Peak (Infiltration)	12.150 hours
Flow (Peak Outlet)	0.11 ft³/s	Time to Peak (Flow, Outlet)	12.200 hours

Elevation (Water Surface, Peak)	212.49 ft
Volume (Peak)	1,562.144 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	8,903.000 ft³
Volume (Total Infiltration)	8,821.000 ft³
Volume (Total Outlet Outflow)	57.000 ft³
Volume (Retained)	24.000 ft³
Volume (Unrouted)	-1.000 ft³
Error (Mass Balance)	0.0 %

Subsection: Level Pool Pond Routing Summary — Return Event: 10 years
Label: IB-1C (IN) — Storm Event: 10 year
Scenario: Post-Development 10 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	1.41 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	212.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	3.95 ft³/s	Time to Peak (Flow, In)	12.100 hours
Infiltration (Peak)	1.41 ft³/s	Time to Peak (Infiltration)	12.000 hours
Flow (Peak Outlet)	1.79 ft³/s	Time to Peak (Flow, Outlet)	12.150 hours

Elevation (Water Surface, Peak)	212.67 ft
Volume (Peak)	2,176.525 ft³

Mass Balance (ft³)

Subsection: Level Pool Pond Routing Summary — Return Event: 10 years

Label: IB-1C (IN) — Storm Event: 10 year

Scenario: Post-Development 10 year

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	14,668.000 ft³
Volume (Total Infiltration)	12,943.000 ft³
Volume (Total Outlet Outflow)	1,687.000 ft³
Volume (Retained)	36.000 ft³
Volume (Unrouted)	-1.000 ft³
Error (Mass Balance)	0.0 %

Subsection: Level Pool Pond Routing Summary — Return Event: 25 years

Label: IB-1C (IN) — Storm Event: 25 year

Scenario: Post-Development 25 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	1.41 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	212.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	5.09 ft³/s	Time to Peak (Flow, In)	12.100 hours
Infiltration (Peak)	1.41 ft³/s	Time to Peak (Infiltration)	11.950 hours
Flow (Peak Outlet)	2.89 ft³/s	Time to Peak (Flow, Outlet)	12.150 hours

Elevation (Water Surface, Peak)	212.79 ft
Volume (Peak)	2,578.212 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	19,251.000 ft³
Volume (Total Infiltration)	15,878.000 ft³
Volume (Total Outlet Outflow)	3,325.000 ft³
Volume (Retained)	46.000 ft³
Volume (Unrouted)	-2.000 ft³
Error (Mass Balance)	0.0 %

Proposed Hydrologic Calculations Report

Subsection: Level Pool Pond Routing Summary — Return Event: 100 years
Label: IB-1C (IN) — Storm Event: 100 year
Scenario: Post-Development 100 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	1.41 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	212.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	7.37 ft³/s	Time to Peak (Flow, In)	12.100 hours
Infiltration (Peak)	1.41 ft³/s	Time to Peak (Infiltration)	11.800 hours
Flow (Peak Outlet)	4.93 ft³/s	Time to Peak (Flow, Outlet)	12.150 hours

Elevation (Water Surface, Peak)	213.00 ft
Volume (Peak)	3,340.673 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	28,558.000 ft³
Volume (Total Infiltration)	21,468.000 ft³
Volume (Total Outlet Outflow)	7,022.000 ft³
Volume (Retained)	65.000 ft³
Volume (Unrouted)	-3.000 ft³
Error (Mass Balance)	0.0 %

Subsection: Pond Routing Calculations (Total Out) — Return Event: 1 years
Label: IB-1C (OUT) — Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 1 years
Label: IB-1C (OUT) Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
2.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) | Return Event: 1 years
Label: IB-1C (OUT) | Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
4.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
6.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
6.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
6.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
6.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
6.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
6.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
6.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
6.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
6.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
6.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
6.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
6.550	0.00	0.00	0.01	0.00	0.00	0.000	212.00
6.600	0.00	0.01	0.01	0.00	0.00	1.000	212.00
6.650	0.00	0.01	0.01	0.00	0.00	1.000	212.00
6.700	0.00	0.01	0.01	0.00	0.00	1.000	212.00
6.750	0.00	0.01	0.01	0.00	0.00	1.000	212.00
6.800	0.00	0.01	0.02	0.00	0.00	1.000	212.00
6.850	0.00	0.02	0.02	0.00	0.00	2.000	212.00
6.900	0.00	0.02	0.02	0.00	0.00	2.000	212.00
6.950	0.00	0.02	0.03	0.00	0.00	2.000	212.00
7.000	0.00	0.03	0.03	0.00	0.00	2.000	212.00
7.050	0.00	0.03	0.03	0.00	0.00	3.000	212.00
7.100	0.00	0.03	0.04	0.00	0.00	3.000	212.00
7.150	0.01	0.03	0.04	0.00	0.00	3.000	212.00
7.200	0.01	0.04	0.04	0.00	0.00	4.000	212.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 1 years
Label: IB-1C (OUT) Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
7.250	0.01	0.04	0.05	0.00	0.00	4.000	212.00
7.300	0.01	0.04	0.05	0.00	0.00	4.000	212.00
7.350	0.01	0.05	0.06	0.00	0.00	5.000	212.00
7.400	0.01	0.05	0.06	0.01	0.00	5.000	212.00
7.450	0.01	0.06	0.07	0.01	0.00	5.000	212.00
7.500	0.01	0.06	0.07	0.01	0.00	6.000	212.00
7.550	0.01	0.06	0.08	0.01	0.00	6.000	212.00
7.600	0.01	0.07	0.08	0.01	0.00	6.000	212.00
7.650	0.01	0.07	0.09	0.01	0.00	7.000	212.00
7.700	0.01	0.08	0.09	0.01	0.00	7.000	212.00
7.750	0.01	0.08	0.10	0.01	0.00	8.000	212.00
7.800	0.01	0.08	0.10	0.01	0.00	8.000	212.00
7.850	0.01	0.09	0.11	0.01	0.00	8.000	212.00
7.900	0.01	0.09	0.11	0.01	0.00	9.000	212.00
7.950	0.01	0.10	0.12	0.01	0.00	9.000	212.00
8.000	0.01	0.10	0.12	0.01	0.00	10.000	212.00
8.050	0.01	0.11	0.13	0.01	0.00	10.000	212.00
8.100	0.01	0.11	0.13	0.01	0.00	11.000	212.00
8.150	0.01	0.12	0.14	0.01	0.00	11.000	212.00
8.200	0.02	0.12	0.15	0.01	0.00	12.000	212.00
8.250	0.02	0.13	0.15	0.01	0.00	12.000	212.00
8.300	0.02	0.14	0.16	0.01	0.00	13.000	212.00
8.350	0.02	0.14	0.17	0.01	0.00	13.000	212.00
8.400	0.02	0.15	0.18	0.01	0.00	14.000	212.00
8.450	0.02	0.16	0.19	0.02	0.00	15.000	212.00
8.500	0.02	0.16	0.20	0.02	0.00	16.000	212.01
8.550	0.02	0.17	0.20	0.02	0.00	16.000	212.01
8.600	0.02	0.18	0.21	0.02	0.00	17.000	212.01
8.650	0.02	0.19	0.22	0.02	0.00	18.000	212.01
8.700	0.02	0.20	0.23	0.02	0.00	19.000	212.01
8.750	0.02	0.20	0.24	0.02	0.00	19.000	212.01
8.800	0.03	0.21	0.25	0.02	0.00	20.000	212.01
8.850	0.03	0.22	0.27	0.02	0.00	21.000	212.01
8.900	0.03	0.23	0.28	0.02	0.00	22.000	212.01
8.950	0.03	0.24	0.29	0.02	0.00	23.000	212.01
9.000	0.03	0.25	0.30	0.02	0.00	24.000	212.01
9.050	0.03	0.26	0.31	0.03	0.00	25.000	212.01
9.100	0.03	0.27	0.32	0.03	0.00	26.000	212.01
9.150	0.03	0.28	0.34	0.03	0.00	27.000	212.01
9.200	0.03	0.29	0.35	0.03	0.00	28.000	212.01
9.250	0.04	0.30	0.36	0.03	0.00	29.000	212.01
9.300	0.04	0.32	0.38	0.03	0.00	30.000	212.01
9.350	0.04	0.33	0.39	0.03	0.00	31.000	212.01
9.400	0.04	0.34	0.40	0.03	0.00	32.000	212.01
9.450	0.04	0.35	0.42	0.03	0.00	33.000	212.01
9.500	0.04	0.36	0.43	0.04	0.00	34.000	212.01

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 1 years
Label: IB-1C (OUT) Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
9.550	0.04	0.37	0.45	0.04	0.00	36.000	212.01
9.600	0.04	0.39	0.46	0.04	0.00	37.000	212.01
9.650	0.05	0.40	0.48	0.04	0.00	38.000	212.01
9.700	0.05	0.41	0.49	0.04	0.00	39.000	212.01
9.750	0.05	0.43	0.51	0.04	0.00	41.000	212.01
9.800	0.05	0.44	0.53	0.04	0.00	42.000	212.01
9.850	0.05	0.45	0.54	0.04	0.00	43.000	212.01
9.900	0.05	0.47	0.56	0.05	0.00	44.000	212.01
9.950	0.05	0.48	0.58	0.05	0.00	46.000	212.02
10.000	0.06	0.50	0.59	0.05	0.00	47.000	212.02
10.050	0.06	0.51	0.61	0.05	0.00	49.000	212.02
10.100	0.06	0.53	0.63	0.05	0.00	50.000	212.02
10.150	0.06	0.54	0.65	0.05	0.00	52.000	212.02
10.200	0.06	0.56	0.67	0.05	0.00	53.000	212.02
10.250	0.07	0.58	0.69	0.06	0.00	55.000	212.02
10.300	0.07	0.60	0.71	0.06	0.00	57.000	212.02
10.350	0.07	0.62	0.74	0.06	0.00	59.000	212.02
10.400	0.07	0.64	0.76	0.06	0.00	61.000	212.02
10.450	0.08	0.66	0.79	0.06	0.00	63.000	212.02
10.500	0.08	0.69	0.82	0.07	0.00	65.000	212.02
10.550	0.08	0.71	0.85	0.07	0.00	67.000	212.02
10.600	0.09	0.73	0.88	0.07	0.00	70.000	212.02
10.650	0.09	0.76	0.91	0.07	0.00	72.000	212.02
10.700	0.09	0.78	0.94	0.08	0.00	75.000	212.02
10.750	0.09	0.81	0.97	0.08	0.00	77.000	212.03
10.800	0.10	0.84	1.00	0.08	0.00	80.000	212.03
10.850	0.10	0.87	1.03	0.08	0.00	82.000	212.03
10.900	0.10	0.89	1.07	0.09	0.00	85.000	212.03
10.950	0.11	0.92	1.10	0.09	0.00	88.000	212.03
11.000	0.11	0.95	1.14	0.09	0.00	91.000	212.03
11.050	0.11	0.98	1.17	0.10	0.00	94.000	212.03
11.100	0.12	1.02	1.22	0.10	0.00	97.000	212.03
11.150	0.13	1.06	1.27	0.10	0.00	101.000	212.03
11.200	0.14	1.11	1.32	0.11	0.00	105.000	212.03
11.250	0.15	1.16	1.39	0.11	0.00	111.000	212.04
11.300	0.16	1.22	1.46	0.12	0.00	117.000	212.04
11.350	0.17	1.29	1.55	0.13	0.00	123.000	212.04
11.400	0.17	1.37	1.63	0.13	0.00	130.000	212.04
11.450	0.19	1.44	1.73	0.14	0.00	138.000	212.05
11.500	0.20	1.53	1.82	0.15	0.00	146.000	212.05
11.550	0.23	1.63	1.95	0.16	0.00	156.000	212.05
11.600	0.28	1.79	2.14	0.18	0.00	171.000	212.06
11.650	0.35	2.03	2.42	0.20	0.00	194.000	212.06
11.700	0.44	2.36	2.82	0.23	0.00	226.000	212.07
11.750	0.53	2.79	3.33	0.27	0.00	267.000	212.09
11.800	0.63	3.31	3.95	0.32	0.00	317.000	212.10

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out)
Return Event: 1 years
Label: IB-1C (OUT)
Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
11.850	0.74	3.91	4.68	0.38	0.00	375.000	212.12
11.900	0.84	4.59	5.49	0.45	0.00	442.000	212.14
11.950	1.22	5.57	6.66	0.54	0.00	537.000	212.17
12.000	1.69	7.10	8.49	0.69	0.00	687.000	212.22
12.050	1.86	8.91	10.65	0.87	0.00	867.000	212.28
12.100	1.94	10.63	12.70	1.04	0.00	1,039.000	212.33
12.150	1.62	11.86	14.18	1.16	0.00	1,164.000	212.37
12.200	1.17	12.26	14.65	1.20	0.00	1,204.000	212.38
12.250	0.99	12.06	14.42	1.18	0.00	1,184.000	212.38
12.300	0.87	11.64	13.92	1.14	0.00	1,142.000	212.36
12.350	0.76	11.10	13.27	1.08	0.00	1,087.000	212.35
12.400	0.66	10.47	12.52	1.02	0.00	1,024.000	212.33
12.450	0.55	9.77	11.68	0.95	0.00	953.000	212.30
12.500	0.44	9.00	10.76	0.88	0.00	876.000	212.28
12.550	0.37	8.21	9.82	0.80	0.00	797.000	212.26
12.600	0.31	7.44	8.89	0.73	0.00	721.000	212.23
12.650	0.28	6.71	8.03	0.66	0.00	649.000	212.21
12.700	0.27	6.08	7.27	0.59	0.00	587.000	212.19
12.750	0.26	5.53	6.61	0.54	0.00	533.000	212.17
12.800	0.25	5.04	6.03	0.49	0.00	486.000	212.16
12.850	0.23	4.62	5.52	0.45	0.00	444.000	212.14
12.900	0.22	4.25	5.08	0.42	0.00	408.000	212.13
12.950	0.21	3.92	4.69	0.38	0.00	376.000	212.12
13.000	0.20	3.62	4.33	0.35	0.00	348.000	212.11
13.050	0.19	3.36	4.02	0.33	0.00	322.000	212.10
13.100	0.19	3.13	3.74	0.31	0.00	300.000	212.10
13.150	0.18	2.92	3.49	0.29	0.00	280.000	212.09
13.200	0.18	2.75	3.28	0.27	0.00	263.000	212.09
13.250	0.18	2.59	3.10	0.25	0.00	248.000	212.08
13.300	0.17	2.46	2.94	0.24	0.00	235.000	212.08
13.350	0.17	2.34	2.80	0.23	0.00	224.000	212.07
13.400	0.17	2.24	2.68	0.22	0.00	214.000	212.07
13.450	0.16	2.15	2.57	0.21	0.00	205.000	212.07
13.500	0.16	2.07	2.47	0.20	0.00	198.000	212.06
13.550	0.16	2.00	2.39	0.20	0.00	191.000	212.06
13.600	0.15	1.93	2.31	0.19	0.00	184.000	212.06
13.650	0.15	1.87	2.24	0.18	0.00	179.000	212.06
13.700	0.15	1.82	2.17	0.18	0.00	173.000	212.06
13.750	0.15	1.77	2.11	0.17	0.00	168.000	212.06
13.800	0.14	1.72	2.05	0.17	0.00	164.000	212.05
13.850	0.14	1.67	2.00	0.16	0.00	160.000	212.05
13.900	0.14	1.63	1.95	0.16	0.00	156.000	212.05
13.950	0.13	1.59	1.90	0.16	0.00	152.000	212.05
14.000	0.13	1.55	1.85	0.15	0.00	148.000	212.05
14.050	0.13	1.51	1.81	0.15	0.00	144.000	212.05
14.100	0.13	1.48	1.77	0.14	0.00	141.000	212.05

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 1 years
Label: IB-1C (OUT) Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
14.150	0.12	1.45	1.73	0.14	0.00	138.000	212.05
14.200	0.12	1.42	1.69	0.14	0.00	135.000	212.04
14.250	0.12	1.39	1.66	0.14	0.00	132.000	212.04
14.300	0.12	1.36	1.63	0.13	0.00	130.000	212.04
14.350	0.12	1.34	1.60	0.13	0.00	128.000	212.04
14.400	0.12	1.32	1.58	0.13	0.00	126.000	212.04
14.450	0.12	1.30	1.55	0.13	0.00	124.000	212.04
14.500	0.11	1.28	1.53	0.12	0.00	122.000	212.04
14.550	0.11	1.26	1.50	0.12	0.00	120.000	212.04
14.600	0.11	1.24	1.48	0.12	0.00	118.000	212.04
14.650	0.11	1.22	1.46	0.12	0.00	117.000	212.04
14.700	0.11	1.21	1.44	0.12	0.00	115.000	212.04
14.750	0.11	1.19	1.42	0.12	0.00	113.000	212.04
14.800	0.11	1.17	1.40	0.11	0.00	112.000	212.04
14.850	0.10	1.16	1.38	0.11	0.00	110.000	212.04
14.900	0.10	1.14	1.36	0.11	0.00	109.000	212.04
14.950	0.10	1.12	1.34	0.11	0.00	107.000	212.04
15.000	0.10	1.11	1.33	0.11	0.00	106.000	212.03
15.050	0.10	1.09	1.31	0.11	0.00	104.000	212.03
15.100	0.10	1.08	1.29	0.11	0.00	103.000	212.03
15.150	0.10	1.06	1.27	0.10	0.00	101.000	212.03
15.200	0.09	1.05	1.25	0.10	0.00	100.000	212.03
15.250	0.09	1.03	1.23	0.10	0.00	98.000	212.03
15.300	0.09	1.02	1.21	0.10	0.00	97.000	212.03
15.350	0.09	1.00	1.20	0.10	0.00	95.000	212.03
15.400	0.09	0.99	1.18	0.10	0.00	94.000	212.03
15.450	0.09	0.97	1.16	0.09	0.00	92.000	212.03
15.500	0.08	0.96	1.14	0.09	0.00	91.000	212.03
15.550	0.08	0.94	1.12	0.09	0.00	90.000	212.03
15.600	0.08	0.93	1.11	0.09	0.00	88.000	212.03
15.650	0.08	0.91	1.09	0.09	0.00	87.000	212.03
15.700	0.08	0.90	1.07	0.09	0.00	85.000	212.03
15.750	0.08	0.88	1.05	0.09	0.00	84.000	212.03
15.800	0.08	0.86	1.03	0.08	0.00	82.000	212.03
15.850	0.07	0.85	1.02	0.08	0.00	81.000	212.03
15.900	0.07	0.83	1.00	0.08	0.00	79.000	212.03
15.950	0.07	0.82	0.98	0.08	0.00	78.000	212.03
16.000	0.07	0.80	0.96	0.08	0.00	77.000	212.03
16.050	0.07	0.79	0.94	0.08	0.00	75.000	212.02
16.100	0.07	0.77	0.93	0.08	0.00	74.000	212.02
16.150	0.07	0.76	0.91	0.07	0.00	72.000	212.02
16.200	0.07	0.75	0.90	0.07	0.00	71.000	212.02
16.250	0.07	0.74	0.88	0.07	0.00	70.000	212.02
16.300	0.07	0.73	0.87	0.07	0.00	69.000	212.02
16.350	0.06	0.72	0.86	0.07	0.00	68.000	212.02
16.400	0.06	0.71	0.84	0.07	0.00	67.000	212.02

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 1 years
Label: IB-1C (OUT) Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
16.450	0.06	0.70	0.83	0.07	0.00	66.000	212.02
16.500	0.06	0.69	0.82	0.07	0.00	66.000	212.02
16.550	0.06	0.68	0.81	0.07	0.00	65.000	212.02
16.600	0.06	0.67	0.80	0.07	0.00	64.000	212.02
16.650	0.06	0.66	0.79	0.06	0.00	63.000	212.02
16.700	0.06	0.66	0.79	0.06	0.00	63.000	212.02
16.750	0.06	0.65	0.78	0.06	0.00	62.000	212.02
16.800	0.06	0.64	0.77	0.06	0.00	61.000	212.02
16.850	0.06	0.64	0.76	0.06	0.00	60.000	212.02
16.900	0.06	0.63	0.75	0.06	0.00	60.000	212.02
16.950	0.06	0.62	0.74	0.06	0.00	59.000	212.02
17.000	0.06	0.61	0.73	0.06	0.00	58.000	212.02
17.050	0.06	0.61	0.73	0.06	0.00	58.000	212.02
17.100	0.06	0.60	0.72	0.06	0.00	57.000	212.02
17.150	0.05	0.59	0.71	0.06	0.00	56.000	212.02
17.200	0.05	0.59	0.70	0.06	0.00	56.000	212.02
17.250	0.05	0.58	0.69	0.06	0.00	55.000	212.02
17.300	0.05	0.57	0.69	0.06	0.00	55.000	212.02
17.350	0.05	0.57	0.68	0.06	0.00	54.000	212.02
17.400	0.05	0.56	0.67	0.05	0.00	53.000	212.02
17.450	0.05	0.55	0.66	0.05	0.00	53.000	212.02
17.500	0.05	0.55	0.65	0.05	0.00	52.000	212.02
17.550	0.05	0.54	0.65	0.05	0.00	51.000	212.02
17.600	0.05	0.53	0.64	0.05	0.00	51.000	212.02
17.650	0.05	0.53	0.63	0.05	0.00	50.000	212.02
17.700	0.05	0.52	0.62	0.05	0.00	49.000	212.02
17.750	0.05	0.51	0.61	0.05	0.00	49.000	212.02
17.800	0.05	0.51	0.61	0.05	0.00	48.000	212.02
17.850	0.05	0.50	0.60	0.05	0.00	47.000	212.02
17.900	0.04	0.49	0.59	0.05	0.00	47.000	212.02
17.950	0.04	0.49	0.58	0.05	0.00	46.000	212.02
18.000	0.04	0.48	0.57	0.05	0.00	46.000	212.01
18.050	0.04	0.47	0.57	0.05	0.00	45.000	212.01
18.100	0.04	0.47	0.56	0.05	0.00	44.000	212.01
18.150	0.04	0.46	0.55	0.05	0.00	44.000	212.01
18.200	0.04	0.46	0.54	0.04	0.00	43.000	212.01
18.250	0.04	0.45	0.54	0.04	0.00	43.000	212.01
18.300	0.04	0.45	0.53	0.04	0.00	42.000	212.01
18.350	0.04	0.44	0.53	0.04	0.00	42.000	212.01
18.400	0.04	0.44	0.52	0.04	0.00	42.000	212.01
18.450	0.04	0.44	0.52	0.04	0.00	41.000	212.01
18.500	0.04	0.43	0.52	0.04	0.00	41.000	212.01
18.550	0.04	0.43	0.51	0.04	0.00	41.000	212.01
18.600	0.04	0.43	0.51	0.04	0.00	41.000	212.01
18.650	0.04	0.42	0.51	0.04	0.00	40.000	212.01
18.700	0.04	0.42	0.50	0.04	0.00	40.000	212.01

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) | Return Event: 1 years
Label: IB-1C (OUT) | Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
18.750	0.04	0.42	0.50	0.04	0.00	40.000	212.01
18.800	0.04	0.42	0.50	0.04	0.00	40.000	212.01
18.850	0.04	0.41	0.50	0.04	0.00	39.000	212.01
18.900	0.04	0.41	0.49	0.04	0.00	39.000	212.01
18.950	0.04	0.41	0.49	0.04	0.00	39.000	212.01
19.000	0.04	0.41	0.49	0.04	0.00	39.000	212.01
19.050	0.04	0.41	0.49	0.04	0.00	39.000	212.01
19.100	0.04	0.40	0.48	0.04	0.00	38.000	212.01
19.150	0.04	0.40	0.48	0.04	0.00	38.000	212.01
19.200	0.04	0.40	0.48	0.04	0.00	38.000	212.01
19.250	0.04	0.40	0.48	0.04	0.00	38.000	212.01
19.300	0.04	0.40	0.47	0.04	0.00	38.000	212.01
19.350	0.04	0.39	0.47	0.04	0.00	37.000	212.01
19.400	0.04	0.39	0.47	0.04	0.00	37.000	212.01
19.450	0.04	0.39	0.47	0.04	0.00	37.000	212.01
19.500	0.04	0.39	0.46	0.04	0.00	37.000	212.01
19.550	0.04	0.39	0.46	0.04	0.00	37.000	212.01
19.600	0.04	0.38	0.46	0.04	0.00	36.000	212.01
19.650	0.04	0.38	0.46	0.04	0.00	36.000	212.01
19.700	0.04	0.38	0.45	0.04	0.00	36.000	212.01
19.750	0.04	0.38	0.45	0.04	0.00	36.000	212.01
19.800	0.04	0.38	0.45	0.04	0.00	36.000	212.01
19.850	0.04	0.37	0.45	0.04	0.00	35.000	212.01
19.900	0.04	0.37	0.44	0.04	0.00	35.000	212.01
19.950	0.03	0.37	0.44	0.04	0.00	35.000	212.01
20.000	0.03	0.37	0.44	0.04	0.00	35.000	212.01
20.050	0.03	0.37	0.44	0.04	0.00	35.000	212.01
20.100	0.03	0.36	0.43	0.04	0.00	35.000	212.01
20.150	0.03	0.36	0.43	0.04	0.00	34.000	212.01
20.200	0.03	0.36	0.43	0.04	0.00	34.000	212.01
20.250	0.03	0.36	0.43	0.03	0.00	34.000	212.01
20.300	0.03	0.36	0.43	0.03	0.00	34.000	212.01
20.350	0.03	0.35	0.42	0.03	0.00	34.000	212.01
20.400	0.03	0.35	0.42	0.03	0.00	34.000	212.01
20.450	0.03	0.35	0.42	0.03	0.00	33.000	212.01
20.500	0.03	0.35	0.42	0.03	0.00	33.000	212.01
20.550	0.03	0.35	0.42	0.03	0.00	33.000	212.01
20.600	0.03	0.35	0.41	0.03	0.00	33.000	212.01
20.650	0.03	0.34	0.41	0.03	0.00	33.000	212.01
20.700	0.03	0.34	0.41	0.03	0.00	33.000	212.01
20.750	0.03	0.34	0.41	0.03	0.00	32.000	212.01
20.800	0.03	0.34	0.41	0.03	0.00	32.000	212.01
20.850	0.03	0.34	0.40	0.03	0.00	32.000	212.01
20.900	0.03	0.34	0.40	0.03	0.00	32.000	212.01
20.950	0.03	0.34	0.40	0.03	0.00	32.000	212.01
21.000	0.03	0.33	0.40	0.03	0.00	32.000	212.01

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
21.050	0.03	0.33	0.40	0.03	0.00	32.000	212.01
21.100	0.03	0.33	0.40	0.03	0.00	31.000	212.01
21.150	0.03	0.33	0.39	0.03	0.00	31.000	212.01
21.200	0.03	0.33	0.39	0.03	0.00	31.000	212.01
21.250	0.03	0.33	0.39	0.03	0.00	31.000	212.01
21.300	0.03	0.33	0.39	0.03	0.00	31.000	212.01
21.350	0.03	0.32	0.39	0.03	0.00	31.000	212.01
21.400	0.03	0.32	0.39	0.03	0.00	31.000	212.01
21.450	0.03	0.32	0.38	0.03	0.00	30.000	212.01
21.500	0.03	0.32	0.38	0.03	0.00	30.000	212.01
21.550	0.03	0.32	0.38	0.03	0.00	30.000	212.01
21.600	0.03	0.32	0.38	0.03	0.00	30.000	212.01
21.650	0.03	0.31	0.38	0.03	0.00	30.000	212.01
21.700	0.03	0.31	0.37	0.03	0.00	30.000	212.01
21.750	0.03	0.31	0.37	0.03	0.00	30.000	212.01
21.800	0.03	0.31	0.37	0.03	0.00	29.000	212.01
21.850	0.03	0.31	0.37	0.03	0.00	29.000	212.01
21.900	0.03	0.31	0.37	0.03	0.00	29.000	212.01
21.950	0.03	0.31	0.37	0.03	0.00	29.000	212.01
22.000	0.03	0.30	0.36	0.03	0.00	29.000	212.01
22.050	0.03	0.30	0.36	0.03	0.00	29.000	212.01
22.100	0.03	0.30	0.36	0.03	0.00	29.000	212.01
22.150	0.03	0.30	0.36	0.03	0.00	28.000	212.01
22.200	0.03	0.30	0.36	0.03	0.00	28.000	212.01
22.250	0.03	0.30	0.35	0.03	0.00	28.000	212.01
22.300	0.03	0.29	0.35	0.03	0.00	28.000	212.01
22.350	0.03	0.29	0.35	0.03	0.00	28.000	212.01
22.400	0.03	0.29	0.35	0.03	0.00	28.000	212.01
22.450	0.03	0.29	0.35	0.03	0.00	28.000	212.01
22.500	0.03	0.29	0.35	0.03	0.00	27.000	212.01
22.550	0.03	0.29	0.34	0.03	0.00	27.000	212.01
22.600	0.03	0.29	0.34	0.03	0.00	27.000	212.01
22.650	0.03	0.28	0.34	0.03	0.00	27.000	212.01
22.700	0.03	0.28	0.34	0.03	0.00	27.000	212.01
22.750	0.03	0.28	0.34	0.03	0.00	27.000	212.01
22.800	0.03	0.28	0.33	0.03	0.00	27.000	212.01
22.850	0.03	0.28	0.33	0.03	0.00	26.000	212.01
22.900	0.03	0.28	0.33	0.03	0.00	26.000	212.01
22.950	0.03	0.28	0.33	0.03	0.00	26.000	212.01
23.000	0.03	0.27	0.33	0.03	0.00	26.000	212.01
23.050	0.03	0.27	0.33	0.03	0.00	26.000	212.01
23.100	0.03	0.27	0.32	0.03	0.00	26.000	212.01
23.150	0.03	0.27	0.32	0.03	0.00	26.000	212.01
23.200	0.03	0.27	0.32	0.03	0.00	25.000	212.01
23.250	0.03	0.27	0.32	0.03	0.00	25.000	212.01
23.300	0.02	0.26	0.32	0.03	0.00	25.000	212.01

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) — Return Event: 1 years
Label: IB-1C (OUT) — Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
23.350	0.02	0.26	0.31	0.03	0.00	25.000	212.01
23.400	0.02	0.26	0.31	0.03	0.00	25.000	212.01
23.450	0.02	0.26	0.31	0.03	0.00	25.000	212.01
23.500	0.02	0.26	0.31	0.03	0.00	25.000	212.01
23.550	0.02	0.26	0.31	0.03	0.00	24.000	212.01
23.600	0.02	0.26	0.31	0.02	0.00	24.000	212.01
23.650	0.02	0.25	0.30	0.02	0.00	24.000	212.01
23.700	0.02	0.25	0.30	0.02	0.00	24.000	212.01
23.750	0.02	0.25	0.30	0.02	0.00	24.000	212.01
23.800	0.02	0.25	0.30	0.02	0.00	24.000	212.01
23.850	0.02	0.25	0.30	0.02	0.00	24.000	212.01
23.900	0.02	0.25	0.29	0.02	0.00	23.000	212.01
23.950	0.02	0.24	0.29	0.02	0.00	23.000	212.01
24.000	0.02	0.24	0.29	0.02	0.00	23.000	212.01

Subsection: Pond Routing Calculations (Total Out) — Return Event: 2 years
Label: IB-1C (OUT) — Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
1.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
3.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
5.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1C (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
5.750	0.00	0.01	0.01	0.00	0.00	1.000	212.00
5.800	0.00	0.01	0.01	0.00	0.00	1.000	212.00
5.850	0.00	0.01	0.01	0.00	0.00	1.000	212.00
5.900	0.00	0.01	0.01	0.00	0.00	1.000	212.00
5.950	0.00	0.01	0.02	0.00	0.00	1.000	212.00
6.000	0.00	0.02	0.02	0.00	0.00	1.000	212.00
6.050	0.00	0.02	0.02	0.00	0.00	2.000	212.00
6.100	0.00	0.02	0.02	0.00	0.00	2.000	212.00
6.150	0.00	0.02	0.03	0.00	0.00	2.000	212.00
6.200	0.00	0.03	0.03	0.00	0.00	2.000	212.00
6.250	0.00	0.03	0.03	0.00	0.00	3.000	212.00
6.300	0.00	0.03	0.04	0.00	0.00	3.000	212.00
6.350	0.01	0.03	0.04	0.00	0.00	3.000	212.00
6.400	0.01	0.04	0.05	0.00	0.00	4.000	212.00
6.450	0.01	0.04	0.05	0.00	0.00	4.000	212.00
6.500	0.01	0.04	0.05	0.00	0.00	4.000	212.00
6.550	0.01	0.05	0.06	0.00	0.00	5.000	212.00
6.600	0.01	0.05	0.06	0.01	0.00	5.000	212.00
6.650	0.01	0.06	0.07	0.01	0.00	5.000	212.00
6.700	0.01	0.06	0.07	0.01	0.00	6.000	212.00
6.750	0.01	0.06	0.08	0.01	0.00	6.000	212.00
6.800	0.01	0.07	0.08	0.01	0.00	6.000	212.00
6.850	0.01	0.07	0.09	0.01	0.00	7.000	212.00
6.900	0.01	0.08	0.09	0.01	0.00	7.000	212.00
6.950	0.01	0.08	0.10	0.01	0.00	8.000	212.00
7.000	0.01	0.09	0.10	0.01	0.00	8.000	212.00
7.050	0.01	0.09	0.11	0.01	0.00	9.000	212.00
7.100	0.01	0.09	0.11	0.01	0.00	9.000	212.00
7.150	0.01	0.10	0.12	0.01	0.00	9.000	212.00
7.200	0.01	0.10	0.12	0.01	0.00	10.000	212.00
7.250	0.01	0.11	0.13	0.01	0.00	10.000	212.00
7.300	0.01	0.11	0.14	0.01	0.00	11.000	212.00
7.350	0.01	0.12	0.14	0.01	0.00	11.000	212.00
7.400	0.02	0.13	0.15	0.01	0.00	12.000	212.00
7.450	0.02	0.13	0.16	0.01	0.00	12.000	212.00
7.500	0.02	0.14	0.16	0.01	0.00	13.000	212.00
7.550	0.02	0.14	0.17	0.01	0.00	14.000	212.00
7.600	0.02	0.15	0.18	0.01	0.00	14.000	212.00
7.650	0.02	0.15	0.18	0.02	0.00	15.000	212.00
7.700	0.02	0.16	0.19	0.02	0.00	15.000	212.00
7.750	0.02	0.17	0.20	0.02	0.00	16.000	212.01
7.800	0.02	0.17	0.21	0.02	0.00	16.000	212.01
7.850	0.02	0.18	0.21	0.02	0.00	17.000	212.01
7.900	0.02	0.18	0.22	0.02	0.00	18.000	212.01
7.950	0.02	0.19	0.23	0.02	0.00	18.000	212.01
8.000	0.02	0.20	0.24	0.02	0.00	19.000	212.01

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out)　　　Return Event: 2 years
Label: IB-1C (OUT)　　　Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
8.050	0.02	0.20	0.24	0.02	0.00	19.000	212.01
8.100	0.02	0.21	0.25	0.02	0.00	20.000	212.01
8.150	0.03	0.22	0.26	0.02	0.00	21.000	212.01
8.200	0.03	0.23	0.27	0.02	0.00	22.000	212.01
8.250	0.03	0.24	0.28	0.02	0.00	22.000	212.01
8.300	0.03	0.24	0.29	0.02	0.00	23.000	212.01
8.350	0.03	0.25	0.30	0.02	0.00	24.000	212.01
8.400	0.03	0.26	0.32	0.03	0.00	25.000	212.01
8.450	0.03	0.27	0.33	0.03	0.00	26.000	212.01
8.500	0.03	0.28	0.34	0.03	0.00	27.000	212.01
8.550	0.03	0.30	0.35	0.03	0.00	28.000	212.01
8.600	0.04	0.31	0.37	0.03	0.00	29.000	212.01
8.650	0.04	0.32	0.38	0.03	0.00	30.000	212.01
8.700	0.04	0.33	0.39	0.03	0.00	31.000	212.01
8.750	0.04	0.34	0.41	0.03	0.00	33.000	212.01
8.800	0.04	0.36	0.42	0.03	0.00	34.000	212.01
8.850	0.04	0.37	0.44	0.04	0.00	35.000	212.01
8.900	0.04	0.38	0.46	0.04	0.00	36.000	212.01
8.950	0.05	0.39	0.47	0.04	0.00	38.000	212.01
9.000	0.05	0.41	0.49	0.04	0.00	39.000	212.01
9.050	0.05	0.42	0.50	0.04	0.00	40.000	212.01
9.100	0.05	0.44	0.52	0.04	0.00	41.000	212.01
9.150	0.05	0.45	0.54	0.04	0.00	43.000	212.01
9.200	0.05	0.47	0.56	0.05	0.00	44.000	212.01
9.250	0.06	0.48	0.57	0.05	0.00	46.000	212.01
9.300	0.06	0.50	0.59	0.05	0.00	47.000	212.02
9.350	0.06	0.51	0.61	0.05	0.00	49.000	212.02
9.400	0.06	0.53	0.63	0.05	0.00	50.000	212.02
9.450	0.06	0.54	0.65	0.05	0.00	52.000	212.02
9.500	0.06	0.56	0.67	0.05	0.00	53.000	212.02
9.550	0.07	0.58	0.69	0.06	0.00	55.000	212.02
9.600	0.07	0.59	0.71	0.06	0.00	56.000	212.02
9.650	0.07	0.61	0.73	0.06	0.00	58.000	212.02
9.700	0.07	0.63	0.75	0.06	0.00	60.000	212.02
9.750	0.07	0.65	0.77	0.06	0.00	61.000	212.02
9.800	0.07	0.66	0.79	0.06	0.00	63.000	212.02
9.850	0.08	0.68	0.81	0.07	0.00	65.000	212.02
9.900	0.08	0.70	0.84	0.07	0.00	67.000	212.02
9.950	0.08	0.72	0.86	0.07	0.00	68.000	212.02
10.000	0.08	0.74	0.88	0.07	0.00	70.000	212.02
10.050	0.08	0.76	0.90	0.07	0.00	72.000	212.02
10.100	0.09	0.78	0.93	0.08	0.00	74.000	212.02
10.150	0.09	0.80	0.95	0.08	0.00	76.000	212.02
10.200	0.09	0.82	0.98	0.08	0.00	78.000	212.03
10.250	0.10	0.85	1.01	0.08	0.00	80.000	212.03
10.300	0.10	0.87	1.04	0.09	0.00	83.000	212.03

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1C (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
10.350	0.10	0.90	1.07	0.09	0.00	86.000	212.03
10.400	0.11	0.93	1.11	0.09	0.00	88.000	212.03
10.450	0.11	0.96	1.14	0.09	0.00	91.000	212.03
10.500	0.11	0.99	1.18	0.10	0.00	94.000	212.03
10.550	0.12	1.02	1.22	0.10	0.00	97.000	212.03
10.600	0.12	1.05	1.26	0.10	0.00	100.000	212.03
10.650	0.12	1.08	1.30	0.11	0.00	103.000	212.03
10.700	0.13	1.12	1.34	0.11	0.00	106.000	212.03
10.750	0.13	1.15	1.38	0.11	0.00	110.000	212.04
10.800	0.14	1.19	1.42	0.12	0.00	113.000	212.04
10.850	0.14	1.22	1.46	0.12	0.00	117.000	212.04
10.900	0.14	1.26	1.51	0.12	0.00	120.000	212.04
10.950	0.15	1.30	1.55	0.13	0.00	124.000	212.04
11.000	0.15	1.33	1.59	0.13	0.00	127.000	212.04
11.050	0.16	1.37	1.64	0.13	0.00	131.000	212.04
11.100	0.17	1.42	1.70	0.14	0.00	135.000	212.04
11.150	0.18	1.47	1.76	0.14	0.00	140.000	212.05
11.200	0.19	1.54	1.84	0.15	0.00	147.000	212.05
11.250	0.20	1.61	1.93	0.16	0.00	154.000	212.05
11.300	0.21	1.69	2.02	0.17	0.00	161.000	212.05
11.350	0.22	1.78	2.13	0.17	0.00	170.000	212.06
11.400	0.24	1.88	2.24	0.18	0.00	179.000	212.06
11.450	0.25	1.98	2.37	0.19	0.00	189.000	212.06
11.500	0.26	2.09	2.49	0.20	0.00	199.000	212.07
11.550	0.31	2.23	2.66	0.22	0.00	213.000	212.07
11.600	0.37	2.44	2.92	0.24	0.00	233.000	212.08
11.650	0.47	2.75	3.29	0.27	0.00	263.000	212.09
11.700	0.59	3.19	3.81	0.31	0.00	305.000	212.10
11.750	0.71	3.75	4.48	0.37	0.00	360.000	212.12
11.800	0.84	4.43	5.29	0.43	0.00	426.000	212.14
11.850	0.97	5.21	6.23	0.51	0.00	502.000	212.16
11.900	1.11	6.10	7.29	0.60	0.00	589.000	212.19
11.950	1.59	7.35	8.79	0.72	0.00	712.000	212.23
12.000	2.19	9.31	11.13	0.91	0.00	907.000	212.29
12.050	2.38	11.61	13.88	1.13	0.00	1,139.000	212.36
12.100	2.47	13.78	16.47	1.35	0.00	1,359.000	212.43
12.150	2.05	15.34	18.30	1.41	0.07	1,514.000	212.48
12.200	1.49	15.84	18.88	1.41	0.11	1,562.000	212.49
12.250	1.25	15.57	18.57	1.41	0.09	1,536.000	212.48
12.300	1.10	15.01	17.92	1.41	0.05	1,482.000	212.47
12.350	0.96	14.27	17.06	1.39	0.00	1,409.000	212.45
12.400	0.82	13.43	16.06	1.31	0.00	1,323.000	212.42
12.450	0.69	12.50	14.95	1.22	0.00	1,229.000	212.39
12.500	0.55	11.50	13.75	1.12	0.00	1,127.000	212.36
12.550	0.46	10.47	12.52	1.02	0.00	1,024.000	212.33
12.600	0.38	9.47	11.32	0.93	0.00	923.000	212.30

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1C (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
12.650	0.35	8.54	10.21	0.83	0.00	830.000	212.27
12.700	0.34	7.73	9.24	0.75	0.00	749.000	212.24
12.750	0.32	7.02	8.39	0.69	0.00	679.000	212.22
12.800	0.31	6.40	7.65	0.62	0.00	618.000	212.20
12.850	0.29	5.85	7.00	0.57	0.00	565.000	212.18
12.900	0.28	5.38	6.43	0.53	0.00	518.000	212.17
12.950	0.27	4.95	5.92	0.48	0.00	477.000	212.15
13.000	0.25	4.58	5.47	0.45	0.00	440.000	212.14
13.050	0.24	4.24	5.07	0.41	0.00	407.000	212.13
13.100	0.23	3.94	4.71	0.39	0.00	378.000	212.12
13.150	0.23	3.68	4.40	0.36	0.00	353.000	212.11
13.200	0.22	3.45	4.13	0.34	0.00	331.000	212.11
13.250	0.22	3.26	3.90	0.32	0.00	312.000	212.10
13.300	0.21	3.09	3.69	0.30	0.00	296.000	212.10
13.350	0.21	2.94	3.51	0.29	0.00	281.000	212.09
13.400	0.21	2.81	3.36	0.27	0.00	269.000	212.09
13.450	0.20	2.70	3.22	0.26	0.00	258.000	212.08
13.500	0.20	2.59	3.10	0.25	0.00	248.000	212.08
13.550	0.20	2.50	2.99	0.24	0.00	239.000	212.08
13.600	0.19	2.42	2.89	0.24	0.00	231.000	212.08
13.650	0.19	2.34	2.80	0.23	0.00	224.000	212.07
13.700	0.19	2.27	2.72	0.22	0.00	217.000	212.07
13.750	0.18	2.21	2.64	0.22	0.00	211.000	212.07
13.800	0.18	2.15	2.57	0.21	0.00	205.000	212.07
13.850	0.17	2.09	2.50	0.20	0.00	200.000	212.07
13.900	0.17	2.04	2.43	0.20	0.00	194.000	212.06
13.950	0.17	1.99	2.37	0.19	0.00	190.000	212.06
14.000	0.16	1.94	2.31	0.19	0.00	185.000	212.06
14.050	0.16	1.89	2.26	0.18	0.00	180.000	212.06
14.100	0.16	1.85	2.21	0.18	0.00	176.000	212.06
14.150	0.15	1.80	2.16	0.18	0.00	172.000	212.06
14.200	0.15	1.77	2.11	0.17	0.00	169.000	212.06
14.250	0.15	1.73	2.07	0.17	0.00	165.000	212.05
14.300	0.15	1.70	2.03	0.17	0.00	162.000	212.05
14.350	0.15	1.67	2.00	0.16	0.00	159.000	212.05
14.400	0.15	1.64	1.96	0.16	0.00	157.000	212.05
14.450	0.14	1.62	1.93	0.16	0.00	154.000	212.05
14.500	0.14	1.59	1.90	0.16	0.00	152.000	212.05
14.550	0.14	1.57	1.87	0.15	0.00	149.000	212.05
14.600	0.14	1.54	1.85	0.15	0.00	147.000	212.05
14.650	0.14	1.52	1.82	0.15	0.00	145.000	212.05
14.700	0.13	1.50	1.79	0.15	0.00	143.000	212.05
14.750	0.13	1.48	1.77	0.14	0.00	141.000	212.05
14.800	0.13	1.46	1.74	0.14	0.00	139.000	212.05
14.850	0.13	1.44	1.72	0.14	0.00	137.000	212.04
14.900	0.13	1.42	1.70	0.14	0.00	135.000	212.04

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1C (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
14.950	0.13	1.40	1.67	0.14	0.00	133.000	212.04
15.000	0.12	1.38	1.65	0.13	0.00	131.000	212.04
15.050	0.12	1.36	1.62	0.13	0.00	130.000	212.04
15.100	0.12	1.34	1.60	0.13	0.00	128.000	212.04
15.150	0.12	1.32	1.58	0.13	0.00	126.000	212.04
15.200	0.12	1.30	1.56	0.13	0.00	124.000	212.04
15.250	0.11	1.28	1.53	0.13	0.00	122.000	212.04
15.300	0.11	1.26	1.51	0.12	0.00	120.000	212.04
15.350	0.11	1.24	1.49	0.12	0.00	119.000	212.04
15.400	0.11	1.23	1.46	0.12	0.00	117.000	212.04
15.450	0.11	1.21	1.44	0.12	0.00	115.000	212.04
15.500	0.11	1.19	1.42	0.12	0.00	113.000	212.04
15.550	0.10	1.17	1.40	0.11	0.00	111.000	212.04
15.600	0.10	1.15	1.37	0.11	0.00	109.000	212.04
15.650	0.10	1.13	1.35	0.11	0.00	108.000	212.04
15.700	0.10	1.11	1.33	0.11	0.00	106.000	212.03
15.750	0.10	1.09	1.31	0.11	0.00	104.000	212.03
15.800	0.09	1.07	1.28	0.10	0.00	102.000	212.03
15.850	0.09	1.06	1.26	0.10	0.00	100.000	212.03
15.900	0.09	1.04	1.24	0.10	0.00	99.000	212.03
15.950	0.09	1.02	1.22	0.10	0.00	97.000	212.03
16.000	0.09	1.00	1.19	0.10	0.00	95.000	212.03
16.050	0.09	0.98	1.17	0.10	0.00	93.000	212.03
16.100	0.08	0.96	1.15	0.09	0.00	92.000	212.03
16.150	0.08	0.95	1.13	0.09	0.00	90.000	212.03
16.200	0.08	0.93	1.11	0.09	0.00	88.000	212.03
16.250	0.08	0.91	1.09	0.09	0.00	87.000	212.03
16.300	0.08	0.90	1.08	0.09	0.00	86.000	212.03
16.350	0.08	0.89	1.06	0.09	0.00	85.000	212.03
16.400	0.08	0.88	1.05	0.09	0.00	83.000	212.03
16.450	0.08	0.87	1.03	0.08	0.00	82.000	212.03
16.500	0.08	0.85	1.02	0.08	0.00	81.000	212.03
16.550	0.08	0.84	1.01	0.08	0.00	80.000	212.03
16.600	0.08	0.83	1.00	0.08	0.00	79.000	212.03
16.650	0.08	0.82	0.99	0.08	0.00	78.000	212.03
16.700	0.07	0.82	0.97	0.08	0.00	78.000	212.03
16.750	0.07	0.81	0.96	0.08	0.00	77.000	212.03
16.800	0.07	0.80	0.95	0.08	0.00	76.000	212.02
16.850	0.07	0.79	0.94	0.08	0.00	75.000	212.02
16.900	0.07	0.78	0.93	0.08	0.00	74.000	212.02
16.950	0.07	0.77	0.92	0.08	0.00	73.000	212.02
17.000	0.07	0.76	0.91	0.07	0.00	72.000	212.02
17.050	0.07	0.75	0.90	0.07	0.00	72.000	212.02
17.100	0.07	0.74	0.89	0.07	0.00	71.000	212.02
17.150	0.07	0.74	0.88	0.07	0.00	70.000	212.02
17.200	0.07	0.73	0.87	0.07	0.00	69.000	212.02

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out)　　Return Event: 2 years
Label: IB-1C (OUT)　　Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
17.250	0.07	0.72	0.86	0.07	0.00	68.000	212.02
17.300	0.06	0.71	0.85	0.07	0.00	68.000	212.02
17.350	0.06	0.70	0.84	0.07	0.00	67.000	212.02
17.400	0.06	0.69	0.83	0.07	0.00	66.000	212.02
17.450	0.06	0.69	0.82	0.07	0.00	65.000	212.02
17.500	0.06	0.68	0.81	0.07	0.00	64.000	212.02
17.550	0.06	0.67	0.80	0.07	0.00	64.000	212.02
17.600	0.06	0.66	0.79	0.06	0.00	63.000	212.02
17.650	0.06	0.65	0.78	0.06	0.00	62.000	212.02
17.700	0.06	0.64	0.77	0.06	0.00	61.000	212.02
17.750	0.06	0.64	0.76	0.06	0.00	60.000	212.02
17.800	0.06	0.63	0.75	0.06	0.00	60.000	212.02
17.850	0.06	0.62	0.74	0.06	0.00	59.000	212.02
17.900	0.06	0.61	0.73	0.06	0.00	58.000	212.02
17.950	0.05	0.60	0.72	0.06	0.00	57.000	212.02
18.000	0.05	0.59	0.71	0.06	0.00	57.000	212.02
18.050	0.05	0.59	0.70	0.06	0.00	56.000	212.02
18.100	0.05	0.58	0.69	0.06	0.00	55.000	212.02
18.150	0.05	0.57	0.68	0.06	0.00	54.000	212.02
18.200	0.05	0.56	0.67	0.06	0.00	54.000	212.02
18.250	0.05	0.56	0.67	0.05	0.00	53.000	212.02
18.300	0.05	0.55	0.66	0.05	0.00	53.000	212.02
18.350	0.05	0.55	0.66	0.05	0.00	52.000	212.02
18.400	0.05	0.54	0.65	0.05	0.00	52.000	212.02
18.450	0.05	0.54	0.65	0.05	0.00	51.000	212.02
18.500	0.05	0.54	0.64	0.05	0.00	51.000	212.02
18.550	0.05	0.53	0.64	0.05	0.00	51.000	212.02
18.600	0.05	0.53	0.63	0.05	0.00	50.000	212.02
18.650	0.05	0.53	0.63	0.05	0.00	50.000	212.02
18.700	0.05	0.52	0.62	0.05	0.00	50.000	212.02
18.750	0.05	0.52	0.62	0.05	0.00	49.000	212.02
18.800	0.05	0.52	0.62	0.05	0.00	49.000	212.02
18.850	0.05	0.51	0.61	0.05	0.00	49.000	212.02
18.900	0.05	0.51	0.61	0.05	0.00	49.000	212.02
18.950	0.05	0.51	0.61	0.05	0.00	48.000	212.02
19.000	0.05	0.51	0.60	0.05	0.00	48.000	212.02
19.050	0.05	0.50	0.60	0.05	0.00	48.000	212.02
19.100	0.05	0.50	0.60	0.05	0.00	48.000	212.02
19.150	0.05	0.50	0.59	0.05	0.00	47.000	212.02
19.200	0.05	0.49	0.59	0.05	0.00	47.000	212.02
19.250	0.05	0.49	0.59	0.05	0.00	47.000	212.02
19.300	0.05	0.49	0.59	0.05	0.00	47.000	212.02
19.350	0.05	0.49	0.58	0.05	0.00	46.000	212.02
19.400	0.05	0.48	0.58	0.05	0.00	46.000	212.02
19.450	0.05	0.48	0.58	0.05	0.00	46.000	212.02
19.500	0.05	0.48	0.57	0.05	0.00	46.000	212.01

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1C (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
19.550	0.05	0.48	0.57	0.05	0.00	45.000	212.01
19.600	0.05	0.47	0.57	0.05	0.00	45.000	212.01
19.650	0.04	0.47	0.56	0.05	0.00	45.000	212.01
19.700	0.04	0.47	0.56	0.05	0.00	45.000	212.01
19.750	0.04	0.47	0.56	0.05	0.00	44.000	212.01
19.800	0.04	0.46	0.56	0.05	0.00	44.000	212.01
19.850	0.04	0.46	0.55	0.05	0.00	44.000	212.01
19.900	0.04	0.46	0.55	0.04	0.00	44.000	212.01
19.950	0.04	0.46	0.55	0.04	0.00	43.000	212.01
20.000	0.04	0.45	0.54	0.04	0.00	43.000	212.01
20.050	0.04	0.45	0.54	0.04	0.00	43.000	212.01
20.100	0.04	0.45	0.54	0.04	0.00	43.000	212.01
20.150	0.04	0.45	0.53	0.04	0.00	43.000	212.01
20.200	0.04	0.45	0.53	0.04	0.00	42.000	212.01
20.250	0.04	0.44	0.53	0.04	0.00	42.000	212.01
20.300	0.04	0.44	0.53	0.04	0.00	42.000	212.01
20.350	0.04	0.44	0.52	0.04	0.00	42.000	212.01
20.400	0.04	0.44	0.52	0.04	0.00	42.000	212.01
20.450	0.04	0.43	0.52	0.04	0.00	41.000	212.01
20.500	0.04	0.43	0.52	0.04	0.00	41.000	212.01
20.550	0.04	0.43	0.51	0.04	0.00	41.000	212.01
20.600	0.04	0.43	0.51	0.04	0.00	41.000	212.01
20.650	0.04	0.43	0.51	0.04	0.00	41.000	212.01
20.700	0.04	0.42	0.51	0.04	0.00	40.000	212.01
20.750	0.04	0.42	0.51	0.04	0.00	40.000	212.01
20.800	0.04	0.42	0.50	0.04	0.00	40.000	212.01
20.850	0.04	0.42	0.50	0.04	0.00	40.000	212.01
20.900	0.04	0.42	0.50	0.04	0.00	40.000	212.01
20.950	0.04	0.41	0.50	0.04	0.00	39.000	212.01
21.000	0.04	0.41	0.49	0.04	0.00	39.000	212.01
21.050	0.04	0.41	0.49	0.04	0.00	39.000	212.01
21.100	0.04	0.41	0.49	0.04	0.00	39.000	212.01
21.150	0.04	0.41	0.49	0.04	0.00	39.000	212.01
21.200	0.04	0.41	0.49	0.04	0.00	39.000	212.01
21.250	0.04	0.40	0.48	0.04	0.00	38.000	212.01
21.300	0.04	0.40	0.48	0.04	0.00	38.000	212.01
21.350	0.04	0.40	0.48	0.04	0.00	38.000	212.01
21.400	0.04	0.40	0.48	0.04	0.00	38.000	212.01
21.450	0.04	0.40	0.47	0.04	0.00	38.000	212.01
21.500	0.04	0.39	0.47	0.04	0.00	37.000	212.01
21.550	0.04	0.39	0.47	0.04	0.00	37.000	212.01
21.600	0.04	0.39	0.47	0.04	0.00	37.000	212.01
21.650	0.04	0.39	0.46	0.04	0.00	37.000	212.01
21.700	0.04	0.39	0.46	0.04	0.00	37.000	212.01
21.750	0.04	0.38	0.46	0.04	0.00	37.000	212.01
21.800	0.04	0.38	0.46	0.04	0.00	36.000	212.01

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1C (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
21.850	0.04	0.38	0.46	0.04	0.00	36.000	212.01
21.900	0.04	0.38	0.45	0.04	0.00	36.000	212.01
21.950	0.04	0.38	0.45	0.04	0.00	36.000	212.01
22.000	0.04	0.38	0.45	0.04	0.00	36.000	212.01
22.050	0.04	0.37	0.45	0.04	0.00	36.000	212.01
22.100	0.04	0.37	0.44	0.04	0.00	35.000	212.01
22.150	0.04	0.37	0.44	0.04	0.00	35.000	212.01
22.200	0.04	0.37	0.44	0.04	0.00	35.000	212.01
22.250	0.03	0.37	0.44	0.04	0.00	35.000	212.01
22.300	0.03	0.36	0.44	0.04	0.00	35.000	212.01
22.350	0.03	0.36	0.43	0.04	0.00	34.000	212.01
22.400	0.03	0.36	0.43	0.04	0.00	34.000	212.01
22.450	0.03	0.36	0.43	0.04	0.00	34.000	212.01
22.500	0.03	0.36	0.43	0.03	0.00	34.000	212.01
22.550	0.03	0.35	0.42	0.03	0.00	34.000	212.01
22.600	0.03	0.35	0.42	0.03	0.00	34.000	212.01
22.650	0.03	0.35	0.42	0.03	0.00	33.000	212.01
22.700	0.03	0.35	0.42	0.03	0.00	33.000	212.01
22.750	0.03	0.35	0.42	0.03	0.00	33.000	212.01
22.800	0.03	0.35	0.41	0.03	0.00	33.000	212.01
22.850	0.03	0.34	0.41	0.03	0.00	33.000	212.01
22.900	0.03	0.34	0.41	0.03	0.00	33.000	212.01
22.950	0.03	0.34	0.41	0.03	0.00	32.000	212.01
23.000	0.03	0.34	0.40	0.03	0.00	32.000	212.01
23.050	0.03	0.34	0.40	0.03	0.00	32.000	212.01
23.100	0.03	0.33	0.40	0.03	0.00	32.000	212.01
23.150	0.03	0.33	0.40	0.03	0.00	32.000	212.01
23.200	0.03	0.33	0.40	0.03	0.00	31.000	212.01
23.250	0.03	0.33	0.39	0.03	0.00	31.000	212.01
23.300	0.03	0.33	0.39	0.03	0.00	31.000	212.01
23.350	0.03	0.32	0.39	0.03	0.00	31.000	212.01
23.400	0.03	0.32	0.39	0.03	0.00	31.000	212.01
23.450	0.03	0.32	0.38	0.03	0.00	31.000	212.01
23.500	0.03	0.32	0.38	0.03	0.00	30.000	212.01
23.550	0.03	0.32	0.38	0.03	0.00	30.000	212.01
23.600	0.03	0.32	0.38	0.03	0.00	30.000	212.01
23.650	0.03	0.31	0.38	0.03	0.00	30.000	212.01
23.700	0.03	0.31	0.37	0.03	0.00	30.000	212.01
23.750	0.03	0.31	0.37	0.03	0.00	29.000	212.01
23.800	0.03	0.31	0.37	0.03	0.00	29.000	212.01
23.850	0.03	0.31	0.37	0.03	0.00	29.000	212.01
23.900	0.03	0.30	0.36	0.03	0.00	29.000	212.01
23.950	0.03	0.30	0.36	0.03	0.00	29.000	212.01
24.000	0.03	0.30	0.36	0.03	0.00	29.000	212.01

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1C (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) | Return Event: 10 years
Label: IB-1C (OUT) | Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
2.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
4.250	0.00	0.01	0.01	0.00	0.00	1.000	212.00
4.300	0.00	0.01	0.01	0.00	0.00	1.000	212.00
4.350	0.00	0.01	0.01	0.00	0.00	1.000	212.00
4.400	0.00	0.01	0.02	0.00	0.00	1.000	212.00
4.450	0.00	0.02	0.02	0.00	0.00	2.000	212.00
4.500	0.00	0.02	0.02	0.00	0.00	2.000	212.00
4.550	0.00	0.02	0.03	0.00	0.00	2.000	212.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1C (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
4.600	0.00	0.03	0.03	0.00	0.00	3.000	212.00
4.650	0.01	0.03	0.04	0.00	0.00	3.000	212.00
4.700	0.01	0.04	0.04	0.00	0.00	3.000	212.00
4.750	0.01	0.04	0.05	0.00	0.00	4.000	212.00
4.800	0.01	0.04	0.05	0.00	0.00	4.000	212.00
4.850	0.01	0.05	0.06	0.00	0.00	5.000	212.00
4.900	0.01	0.05	0.06	0.01	0.00	5.000	212.00
4.950	0.01	0.06	0.07	0.01	0.00	5.000	212.00
5.000	0.01	0.06	0.07	0.01	0.00	6.000	212.00
5.050	0.01	0.07	0.08	0.01	0.00	6.000	212.00
5.100	0.01	0.07	0.09	0.01	0.00	7.000	212.00
5.150	0.01	0.08	0.09	0.01	0.00	7.000	212.00
5.200	0.01	0.08	0.10	0.01	0.00	8.000	212.00
5.250	0.01	0.09	0.10	0.01	0.00	8.000	212.00
5.300	0.01	0.09	0.11	0.01	0.00	9.000	212.00
5.350	0.01	0.09	0.11	0.01	0.00	9.000	212.00
5.400	0.01	0.10	0.12	0.01	0.00	9.000	212.00
5.450	0.01	0.10	0.12	0.01	0.00	10.000	212.00
5.500	0.01	0.11	0.13	0.01	0.00	10.000	212.00
5.550	0.01	0.11	0.14	0.01	0.00	11.000	212.00
5.600	0.01	0.12	0.14	0.01	0.00	11.000	212.00
5.650	0.01	0.12	0.15	0.01	0.00	12.000	212.00
5.700	0.02	0.13	0.15	0.01	0.00	12.000	212.00
5.750	0.02	0.13	0.16	0.01	0.00	13.000	212.00
5.800	0.02	0.14	0.17	0.01	0.00	13.000	212.00
5.850	0.02	0.14	0.17	0.01	0.00	14.000	212.00
5.900	0.02	0.15	0.18	0.01	0.00	14.000	212.00
5.950	0.02	0.15	0.18	0.02	0.00	15.000	212.00
6.000	0.02	0.16	0.19	0.02	0.00	15.000	212.00
6.050	0.02	0.16	0.20	0.02	0.00	16.000	212.01
6.100	0.02	0.17	0.20	0.02	0.00	16.000	212.01
6.150	0.02	0.18	0.21	0.02	0.00	17.000	212.01
6.200	0.02	0.18	0.22	0.02	0.00	17.000	212.01
6.250	0.02	0.19	0.22	0.02	0.00	18.000	212.01
6.300	0.02	0.19	0.23	0.02	0.00	18.000	212.01
6.350	0.02	0.20	0.24	0.02	0.00	19.000	212.01
6.400	0.02	0.21	0.25	0.02	0.00	20.000	212.01
6.450	0.03	0.21	0.26	0.02	0.00	20.000	212.01
6.500	0.03	0.22	0.27	0.02	0.00	21.000	212.01
6.550	0.03	0.23	0.28	0.02	0.00	22.000	212.01
6.600	0.03	0.24	0.28	0.02	0.00	23.000	212.01
6.650	0.03	0.25	0.29	0.02	0.00	23.000	212.01
6.700	0.03	0.25	0.30	0.02	0.00	24.000	212.01
6.750	0.03	0.26	0.31	0.03	0.00	25.000	212.01
6.800	0.03	0.27	0.32	0.03	0.00	26.000	212.01
6.850	0.03	0.28	0.33	0.03	0.00	27.000	212.01

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) | Return Event: 10 years
Label: IB-1C (OUT) | Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
6.900	0.03	0.29	0.35	0.03	0.00	27.000	212.01
6.950	0.03	0.30	0.36	0.03	0.00	28.000	212.01
7.000	0.04	0.31	0.37	0.03	0.00	29.000	212.01
7.050	0.04	0.32	0.38	0.03	0.00	30.000	212.01
7.100	0.04	0.33	0.39	0.03	0.00	31.000	212.01
7.150	0.04	0.34	0.40	0.03	0.00	32.000	212.01
7.200	0.04	0.35	0.41	0.03	0.00	33.000	212.01
7.250	0.04	0.36	0.43	0.03	0.00	34.000	212.01
7.300	0.04	0.37	0.44	0.04	0.00	35.000	212.01
7.350	0.04	0.38	0.45	0.04	0.00	36.000	212.01
7.400	0.04	0.39	0.46	0.04	0.00	37.000	212.01
7.450	0.04	0.40	0.48	0.04	0.00	38.000	212.01
7.500	0.05	0.41	0.49	0.04	0.00	39.000	212.01
7.550	0.05	0.42	0.50	0.04	0.00	40.000	212.01
7.600	0.05	0.43	0.52	0.04	0.00	41.000	212.01
7.650	0.05	0.44	0.53	0.04	0.00	42.000	212.01
7.700	0.05	0.45	0.54	0.04	0.00	43.000	212.01
7.750	0.05	0.46	0.56	0.05	0.00	44.000	212.01
7.800	0.05	0.48	0.57	0.05	0.00	45.000	212.01
7.850	0.05	0.49	0.58	0.05	0.00	46.000	212.02
7.900	0.06	0.50	0.60	0.05	0.00	48.000	212.02
7.950	0.06	0.51	0.61	0.05	0.00	49.000	212.02
8.000	0.06	0.52	0.63	0.05	0.00	50.000	212.02
8.050	0.06	0.54	0.64	0.05	0.00	51.000	212.02
8.100	0.06	0.55	0.66	0.05	0.00	52.000	212.02
8.150	0.06	0.56	0.67	0.06	0.00	54.000	212.02
8.200	0.07	0.58	0.69	0.06	0.00	55.000	212.02
8.250	0.07	0.59	0.71	0.06	0.00	57.000	212.02
8.300	0.07	0.61	0.73	0.06	0.00	58.000	212.02
8.350	0.07	0.63	0.75	0.06	0.00	60.000	212.02
8.400	0.07	0.65	0.77	0.06	0.00	62.000	212.02
8.450	0.08	0.67	0.80	0.07	0.00	63.000	212.02
8.500	0.08	0.69	0.82	0.07	0.00	65.000	212.02
8.550	0.08	0.71	0.85	0.07	0.00	67.000	212.02
8.600	0.08	0.73	0.87	0.07	0.00	69.000	212.02
8.650	0.09	0.75	0.90	0.07	0.00	71.000	212.02
8.700	0.09	0.77	0.92	0.08	0.00	74.000	212.02
8.750	0.09	0.80	0.95	0.08	0.00	76.000	212.02
8.800	0.09	0.82	0.98	0.08	0.00	78.000	212.03
8.850	0.10	0.84	1.01	0.08	0.00	80.000	212.03
8.900	0.10	0.87	1.04	0.08	0.00	82.000	212.03
8.950	0.10	0.89	1.07	0.09	0.00	85.000	212.03
9.000	0.10	0.92	1.09	0.09	0.00	87.000	212.03
9.050	0.11	0.94	1.12	0.09	0.00	90.000	212.03
9.100	0.11	0.97	1.16	0.09	0.00	92.000	212.03
9.150	0.11	0.99	1.19	0.10	0.00	94.000	212.03

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
9.200	0.11	1.02	1.22	0.10	0.00	97.000	212.03
9.250	0.12	1.05	1.25	0.10	0.00	100.000	212.03
9.300	0.12	1.07	1.28	0.10	0.00	102.000	212.03
9.350	0.12	1.10	1.31	0.11	0.00	105.000	212.03
9.400	0.13	1.13	1.35	0.11	0.00	107.000	212.04
9.450	0.13	1.15	1.38	0.11	0.00	110.000	212.04
9.500	0.13	1.18	1.41	0.12	0.00	113.000	212.04
9.550	0.13	1.21	1.45	0.12	0.00	115.000	212.04
9.600	0.14	1.24	1.48	0.12	0.00	118.000	212.04
9.650	0.14	1.27	1.52	0.12	0.00	121.000	212.04
9.700	0.14	1.30	1.55	0.13	0.00	124.000	212.04
9.750	0.15	1.33	1.59	0.13	0.00	127.000	212.04
9.800	0.15	1.36	1.62	0.13	0.00	129.000	212.04
9.850	0.15	1.39	1.66	0.14	0.00	132.000	212.04
9.900	0.16	1.42	1.69	0.14	0.00	135.000	212.04
9.950	0.16	1.45	1.73	0.14	0.00	138.000	212.05
10.000	0.16	1.48	1.77	0.14	0.00	141.000	212.05
10.050	0.17	1.51	1.81	0.15	0.00	144.000	212.05
10.100	0.17	1.54	1.85	0.15	0.00	147.000	212.05
10.150	0.17	1.58	1.89	0.15	0.00	151.000	212.05
10.200	0.18	1.62	1.93	0.16	0.00	154.000	212.05
10.250	0.19	1.66	1.98	0.16	0.00	158.000	212.05
10.300	0.19	1.70	2.04	0.17	0.00	162.000	212.05
10.350	0.20	1.75	2.09	0.17	0.00	167.000	212.05
10.400	0.20	1.80	2.15	0.18	0.00	171.000	212.06
10.450	0.21	1.85	2.21	0.18	0.00	176.000	212.06
10.500	0.21	1.90	2.27	0.19	0.00	181.000	212.06
10.550	0.22	1.95	2.33	0.19	0.00	186.000	212.06
10.600	0.23	2.00	2.39	0.20	0.00	191.000	212.06
10.650	0.23	2.06	2.46	0.20	0.00	196.000	212.06
10.700	0.24	2.11	2.53	0.21	0.00	202.000	212.07
10.750	0.24	2.17	2.59	0.21	0.00	207.000	212.07
10.800	0.25	2.23	2.66	0.22	0.00	213.000	212.07
10.850	0.26	2.29	2.73	0.22	0.00	218.000	212.07
10.900	0.26	2.35	2.80	0.23	0.00	224.000	212.07
10.950	0.27	2.41	2.88	0.23	0.00	230.000	212.07
11.000	0.27	2.47	2.95	0.24	0.00	236.000	212.08
11.050	0.29	2.53	3.03	0.25	0.00	242.000	212.08
11.100	0.30	2.61	3.11	0.25	0.00	249.000	212.08
11.150	0.32	2.69	3.22	0.26	0.00	258.000	212.08
11.200	0.34	2.80	3.35	0.27	0.00	268.000	212.09
11.250	0.36	2.92	3.49	0.29	0.00	280.000	212.09
11.300	0.38	3.06	3.65	0.30	0.00	293.000	212.10
11.350	0.40	3.21	3.83	0.31	0.00	307.000	212.10
11.400	0.42	3.37	4.02	0.33	0.00	322.000	212.10
11.450	0.44	3.53	4.23	0.35	0.00	339.000	212.11

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1C (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
11.500	0.46	3.71	4.44	0.36	0.00	356.000	212.12
11.550	0.55	3.95	4.72	0.39	0.00	379.000	212.12
11.600	0.65	4.30	5.14	0.42	0.00	413.000	212.13
11.650	0.82	4.82	5.76	0.47	0.00	464.000	212.15
11.700	1.01	5.56	6.64	0.54	0.00	536.000	212.17
11.750	1.21	6.50	7.77	0.63	0.00	628.000	212.20
11.800	1.41	7.63	9.12	0.74	0.00	739.000	212.24
11.850	1.62	8.92	10.66	0.87	0.00	868.000	212.28
11.900	1.84	10.35	12.38	1.01	0.00	1,011.000	212.32
11.950	2.62	12.39	14.81	1.21	0.00	1,217.000	212.39
12.000	3.57	15.57	18.57	1.41	0.09	1,536.000	212.48
12.050	3.85	18.40	22.98	1.41	0.88	1,853.000	212.58
12.100	3.95	20.35	26.20	1.41	1.52	2,080.000	212.65
12.150	3.26	21.17	27.56	1.41	1.79	2,177.000	212.67
12.200	2.35	20.70	26.78	1.41	1.63	2,121.000	212.66
12.250	1.97	19.63	25.01	1.41	1.28	1,996.000	212.62
12.300	1.72	18.61	23.32	1.41	0.95	1,876.000	212.59
12.350	1.50	17.71	21.83	1.41	0.65	1,772.000	212.55
12.400	1.29	16.91	20.50	1.41	0.39	1,680.000	212.53
12.450	1.08	16.17	19.27	1.41	0.14	1,595.000	212.50
12.500	0.86	15.17	18.11	1.41	0.06	1,498.000	212.47
12.550	0.72	14.02	16.76	1.37	0.00	1,384.000	212.44
12.600	0.60	12.84	15.34	1.25	0.00	1,263.000	212.40
12.650	0.55	11.70	13.99	1.14	0.00	1,147.000	212.36
12.700	0.52	10.69	12.78	1.04	0.00	1,045.000	212.33
12.750	0.50	9.80	11.72	0.96	0.00	956.000	212.31
12.800	0.48	9.02	10.78	0.88	0.00	878.000	212.28
12.850	0.46	8.33	9.95	0.81	0.00	809.000	212.26
12.900	0.43	7.71	9.22	0.75	0.00	748.000	212.24
12.950	0.41	7.16	8.56	0.70	0.00	693.000	212.22
13.000	0.39	6.66	7.96	0.65	0.00	644.000	212.21
13.050	0.37	6.21	7.42	0.61	0.00	600.000	212.19
13.100	0.36	5.80	6.94	0.57	0.00	560.000	212.18
13.150	0.35	5.45	6.51	0.53	0.00	525.000	212.17
13.200	0.34	5.14	6.14	0.50	0.00	495.000	212.16
13.250	0.34	4.87	5.82	0.48	0.00	469.000	212.15
13.300	0.33	4.64	5.54	0.45	0.00	446.000	212.14
13.350	0.33	4.43	5.30	0.43	0.00	426.000	212.14
13.400	0.32	4.25	5.08	0.41	0.00	408.000	212.13
13.450	0.32	4.09	4.88	0.40	0.00	392.000	212.13
13.500	0.31	3.94	4.71	0.38	0.00	378.000	212.12
13.550	0.30	3.81	4.55	0.37	0.00	365.000	212.12
13.600	0.30	3.69	4.41	0.36	0.00	354.000	212.12
13.650	0.29	3.58	4.28	0.35	0.00	343.000	212.11
13.700	0.29	3.48	4.16	0.34	0.00	333.000	212.11
13.750	0.28	3.38	4.04	0.33	0.00	324.000	212.11

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1C (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
13.800	0.27	3.29	3.94	0.32	0.00	316.000	212.10
13.850	0.27	3.21	3.84	0.31	0.00	307.000	212.10
13.900	0.26	3.13	3.74	0.31	0.00	300.000	212.10
13.950	0.26	3.05	3.65	0.30	0.00	292.000	212.10
14.000	0.25	2.98	3.56	0.29	0.00	285.000	212.09
14.050	0.25	2.91	3.47	0.28	0.00	278.000	212.09
14.100	0.24	2.84	3.39	0.28	0.00	272.000	212.09
14.150	0.24	2.78	3.32	0.27	0.00	266.000	212.09
14.200	0.24	2.72	3.25	0.27	0.00	260.000	212.08
14.250	0.23	2.67	3.19	0.26	0.00	255.000	212.08
14.300	0.23	2.62	3.13	0.26	0.00	250.000	212.08
14.350	0.23	2.57	3.07	0.25	0.00	246.000	212.08
14.400	0.22	2.53	3.02	0.25	0.00	242.000	212.08
14.450	0.22	2.49	2.98	0.24	0.00	238.000	212.08
14.500	0.22	2.45	2.93	0.24	0.00	234.000	212.08
14.550	0.22	2.41	2.89	0.24	0.00	231.000	212.08
14.600	0.21	2.38	2.84	0.23	0.00	227.000	212.07
14.650	0.21	2.34	2.80	0.23	0.00	224.000	212.07
14.700	0.21	2.31	2.76	0.23	0.00	221.000	212.07
14.750	0.20	2.28	2.72	0.22	0.00	218.000	212.07
14.800	0.20	2.24	2.68	0.22	0.00	214.000	212.07
14.850	0.20	2.21	2.65	0.22	0.00	211.000	212.07
14.900	0.20	2.18	2.61	0.21	0.00	208.000	212.07
14.950	0.19	2.15	2.57	0.21	0.00	205.000	212.07
15.000	0.19	2.12	2.53	0.21	0.00	203.000	212.07
15.050	0.19	2.09	2.50	0.20	0.00	200.000	212.07
15.100	0.18	2.06	2.46	0.20	0.00	197.000	212.06
15.150	0.18	2.03	2.43	0.20	0.00	194.000	212.06
15.200	0.18	2.00	2.39	0.20	0.00	191.000	212.06
15.250	0.18	1.97	2.36	0.19	0.00	188.000	212.06
15.300	0.17	1.94	2.32	0.19	0.00	185.000	212.06
15.350	0.17	1.91	2.29	0.19	0.00	182.000	212.06
15.400	0.17	1.88	2.25	0.18	0.00	180.000	212.06
15.450	0.16	1.85	2.22	0.18	0.00	177.000	212.06
15.500	0.16	1.82	2.18	0.18	0.00	174.000	212.06
15.550	0.16	1.79	2.15	0.18	0.00	171.000	212.06
15.600	0.16	1.77	2.11	0.17	0.00	168.000	212.06
15.650	0.15	1.74	2.08	0.17	0.00	166.000	212.05
15.700	0.15	1.71	2.04	0.17	0.00	163.000	212.05
15.750	0.15	1.68	2.01	0.16	0.00	160.000	212.05
15.800	0.15	1.65	1.97	0.16	0.00	157.000	212.05
15.850	0.14	1.62	1.94	0.16	0.00	154.000	212.05
15.900	0.14	1.59	1.90	0.16	0.00	152.000	212.05
15.950	0.14	1.56	1.87	0.15	0.00	149.000	212.05
16.000	0.13	1.53	1.83	0.15	0.00	146.000	212.05
16.050	0.13	1.50	1.80	0.15	0.00	143.000	212.05

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
16.100	0.13	1.48	1.76	0.14	0.00	141.000	212.05
16.150	0.13	1.45	1.73	0.14	0.00	138.000	212.05
16.200	0.13	1.43	1.70	0.14	0.00	136.000	212.04
16.250	0.13	1.40	1.68	0.14	0.00	134.000	212.04
16.300	0.12	1.38	1.65	0.14	0.00	132.000	212.04
16.350	0.12	1.36	1.63	0.13	0.00	130.000	212.04
16.400	0.12	1.34	1.61	0.13	0.00	128.000	212.04
16.450	0.12	1.33	1.59	0.13	0.00	126.000	212.04
16.500	0.12	1.31	1.57	0.13	0.00	125.000	212.04
16.550	0.12	1.29	1.55	0.13	0.00	123.000	212.04
16.600	0.12	1.28	1.53	0.12	0.00	122.000	212.04
16.650	0.12	1.26	1.51	0.12	0.00	120.000	212.04
16.700	0.11	1.25	1.49	0.12	0.00	119.000	212.04
16.750	0.11	1.24	1.48	0.12	0.00	118.000	212.04
16.800	0.11	1.22	1.46	0.12	0.00	116.000	212.04
16.850	0.11	1.21	1.44	0.12	0.00	115.000	212.04
16.900	0.11	1.19	1.43	0.12	0.00	114.000	212.04
16.950	0.11	1.18	1.41	0.12	0.00	112.000	212.04
17.000	0.11	1.17	1.39	0.11	0.00	111.000	212.04
17.050	0.11	1.15	1.38	0.11	0.00	110.000	212.04
17.100	0.10	1.14	1.36	0.11	0.00	109.000	212.04
17.150	0.10	1.13	1.35	0.11	0.00	107.000	212.04
17.200	0.10	1.11	1.33	0.11	0.00	106.000	212.03
17.250	0.10	1.10	1.32	0.11	0.00	105.000	212.03
17.300	0.10	1.09	1.30	0.11	0.00	104.000	212.03
17.350	0.10	1.08	1.29	0.11	0.00	102.000	212.03
17.400	0.10	1.06	1.27	0.10	0.00	101.000	212.03
17.450	0.10	1.05	1.25	0.10	0.00	100.000	212.03
17.500	0.09	1.04	1.24	0.10	0.00	99.000	212.03
17.550	0.09	1.02	1.22	0.10	0.00	98.000	212.03
17.600	0.09	1.01	1.21	0.10	0.00	96.000	212.03
17.650	0.09	1.00	1.19	0.10	0.00	95.000	212.03
17.700	0.09	0.99	1.18	0.10	0.00	94.000	212.03
17.750	0.09	0.97	1.16	0.10	0.00	93.000	212.03
17.800	0.09	0.96	1.15	0.09	0.00	91.000	212.03
17.850	0.09	0.95	1.13	0.09	0.00	90.000	212.03
17.900	0.08	0.93	1.12	0.09	0.00	89.000	212.03
17.950	0.08	0.92	1.10	0.09	0.00	88.000	212.03
18.000	0.08	0.91	1.09	0.09	0.00	87.000	212.03
18.050	0.08	0.90	1.07	0.09	0.00	85.000	212.03
18.100	0.08	0.88	1.06	0.09	0.00	84.000	212.03
18.150	0.08	0.87	1.04	0.09	0.00	83.000	212.03
18.200	0.08	0.86	1.03	0.08	0.00	82.000	212.03
18.250	0.08	0.85	1.02	0.08	0.00	81.000	212.03
18.300	0.08	0.85	1.01	0.08	0.00	81.000	212.03
18.350	0.08	0.84	1.00	0.08	0.00	80.000	212.03

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1C (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
18.400	0.08	0.83	0.99	0.08	0.00	79.000	212.03
18.450	0.08	0.83	0.99	0.08	0.00	79.000	212.03
18.500	0.08	0.82	0.98	0.08	0.00	78.000	212.03
18.550	0.08	0.81	0.97	0.08	0.00	77.000	212.03
18.600	0.08	0.81	0.97	0.08	0.00	77.000	212.03
18.650	0.08	0.80	0.96	0.08	0.00	76.000	212.03
18.700	0.08	0.80	0.95	0.08	0.00	76.000	212.02
18.750	0.08	0.79	0.95	0.08	0.00	76.000	212.02
18.800	0.07	0.79	0.94	0.08	0.00	75.000	212.02
18.850	0.07	0.79	0.94	0.08	0.00	75.000	212.02
18.900	0.07	0.78	0.93	0.08	0.00	74.000	212.02
18.950	0.07	0.78	0.93	0.08	0.00	74.000	212.02
19.000	0.07	0.77	0.92	0.08	0.00	73.000	212.02
19.050	0.07	0.77	0.92	0.08	0.00	73.000	212.02
19.100	0.07	0.76	0.91	0.07	0.00	73.000	212.02
19.150	0.07	0.76	0.91	0.07	0.00	72.000	212.02
19.200	0.07	0.76	0.90	0.07	0.00	72.000	212.02
19.250	0.07	0.75	0.90	0.07	0.00	72.000	212.02
19.300	0.07	0.75	0.89	0.07	0.00	71.000	212.02
19.350	0.07	0.74	0.89	0.07	0.00	71.000	212.02
19.400	0.07	0.74	0.89	0.07	0.00	70.000	212.02
19.450	0.07	0.74	0.88	0.07	0.00	70.000	212.02
19.500	0.07	0.73	0.88	0.07	0.00	70.000	212.02
19.550	0.07	0.73	0.87	0.07	0.00	69.000	212.02
19.600	0.07	0.73	0.87	0.07	0.00	69.000	212.02
19.650	0.07	0.72	0.86	0.07	0.00	69.000	212.02
19.700	0.07	0.72	0.86	0.07	0.00	68.000	212.02
19.750	0.07	0.71	0.85	0.07	0.00	68.000	212.02
19.800	0.07	0.71	0.85	0.07	0.00	68.000	212.02
19.850	0.07	0.71	0.84	0.07	0.00	67.000	212.02
19.900	0.07	0.70	0.84	0.07	0.00	67.000	212.02
19.950	0.07	0.70	0.83	0.07	0.00	66.000	212.02
20.000	0.07	0.69	0.83	0.07	0.00	66.000	212.02
20.050	0.07	0.69	0.83	0.07	0.00	66.000	212.02
20.100	0.06	0.69	0.82	0.07	0.00	65.000	212.02
20.150	0.06	0.68	0.82	0.07	0.00	65.000	212.02
20.200	0.06	0.68	0.81	0.07	0.00	65.000	212.02
20.250	0.06	0.68	0.81	0.07	0.00	64.000	212.02
20.300	0.06	0.67	0.81	0.07	0.00	64.000	212.02
20.350	0.06	0.67	0.80	0.07	0.00	64.000	212.02
20.400	0.06	0.67	0.80	0.07	0.00	63.000	212.02
20.450	0.06	0.66	0.79	0.06	0.00	63.000	212.02
20.500	0.06	0.66	0.79	0.06	0.00	63.000	212.02
20.550	0.06	0.66	0.79	0.06	0.00	63.000	212.02
20.600	0.06	0.65	0.78	0.06	0.00	62.000	212.02
20.650	0.06	0.65	0.78	0.06	0.00	62.000	212.02

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
20.700	0.06	0.65	0.77	0.06	0.00	62.000	212.02
20.750	0.06	0.64	0.77	0.06	0.00	61.000	212.02
20.800	0.06	0.64	0.77	0.06	0.00	61.000	212.02
20.850	0.06	0.64	0.76	0.06	0.00	61.000	212.02
20.900	0.06	0.64	0.76	0.06	0.00	61.000	212.02
20.950	0.06	0.63	0.76	0.06	0.00	60.000	212.02
21.000	0.06	0.63	0.75	0.06	0.00	60.000	212.02
21.050	0.06	0.63	0.75	0.06	0.00	60.000	212.02
21.100	0.06	0.63	0.75	0.06	0.00	59.000	212.02
21.150	0.06	0.62	0.74	0.06	0.00	59.000	212.02
21.200	0.06	0.62	0.74	0.06	0.00	59.000	212.02
21.250	0.06	0.62	0.74	0.06	0.00	59.000	212.02
21.300	0.06	0.61	0.73	0.06	0.00	58.000	212.02
21.350	0.06	0.61	0.73	0.06	0.00	58.000	212.02
21.400	0.06	0.61	0.73	0.06	0.00	58.000	212.02
21.450	0.06	0.60	0.72	0.06	0.00	58.000	212.02
21.500	0.06	0.60	0.72	0.06	0.00	57.000	212.02
21.550	0.06	0.60	0.72	0.06	0.00	57.000	212.02
21.600	0.06	0.60	0.71	0.06	0.00	57.000	212.02
21.650	0.06	0.59	0.71	0.06	0.00	56.000	212.02
21.700	0.06	0.59	0.71	0.06	0.00	56.000	212.02
21.750	0.06	0.59	0.70	0.06	0.00	56.000	212.02
21.800	0.06	0.58	0.70	0.06	0.00	56.000	212.02
21.850	0.06	0.58	0.70	0.06	0.00	55.000	212.02
21.900	0.05	0.58	0.69	0.06	0.00	55.000	212.02
21.950	0.05	0.58	0.69	0.06	0.00	55.000	212.02
22.000	0.05	0.57	0.69	0.06	0.00	55.000	212.02
22.050	0.05	0.57	0.68	0.06	0.00	54.000	212.02
22.100	0.05	0.57	0.68	0.06	0.00	54.000	212.02
22.150	0.05	0.56	0.67	0.06	0.00	54.000	212.02
22.200	0.05	0.56	0.67	0.05	0.00	53.000	212.02
22.250	0.05	0.56	0.67	0.05	0.00	53.000	212.02
22.300	0.05	0.56	0.66	0.05	0.00	53.000	212.02
22.350	0.05	0.55	0.66	0.05	0.00	53.000	212.02
22.400	0.05	0.55	0.66	0.05	0.00	52.000	212.02
22.450	0.05	0.55	0.65	0.05	0.00	52.000	212.02
22.500	0.05	0.54	0.65	0.05	0.00	52.000	212.02
22.550	0.05	0.54	0.65	0.05	0.00	51.000	212.02
22.600	0.05	0.54	0.64	0.05	0.00	51.000	212.02
22.650	0.05	0.54	0.64	0.05	0.00	51.000	212.02
22.700	0.05	0.53	0.64	0.05	0.00	51.000	212.02
22.750	0.05	0.53	0.63	0.05	0.00	50.000	212.02
22.800	0.05	0.53	0.63	0.05	0.00	50.000	212.02
22.850	0.05	0.52	0.63	0.05	0.00	50.000	212.02
22.900	0.05	0.52	0.62	0.05	0.00	50.000	212.02
22.950	0.05	0.52	0.62	0.05	0.00	49.000	212.02

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1C (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
23.000	0.05	0.52	0.62	0.05	0.00	49.000	212.02
23.050	0.05	0.51	0.61	0.05	0.00	49.000	212.02
23.100	0.05	0.51	0.61	0.05	0.00	48.000	212.02
23.150	0.05	0.51	0.61	0.05	0.00	48.000	212.02
23.200	0.05	0.50	0.60	0.05	0.00	48.000	212.02
23.250	0.05	0.50	0.60	0.05	0.00	48.000	212.02
23.300	0.05	0.50	0.60	0.05	0.00	47.000	212.02
23.350	0.05	0.50	0.59	0.05	0.00	47.000	212.02
23.400	0.05	0.49	0.59	0.05	0.00	47.000	212.02
23.450	0.05	0.49	0.59	0.05	0.00	47.000	212.02
23.500	0.05	0.49	0.58	0.05	0.00	46.000	212.02
23.550	0.05	0.48	0.58	0.05	0.00	46.000	212.02
23.600	0.05	0.48	0.58	0.05	0.00	46.000	212.01
23.650	0.05	0.48	0.57	0.05	0.00	45.000	212.01
23.700	0.04	0.48	0.57	0.05	0.00	45.000	212.01
23.750	0.04	0.47	0.56	0.05	0.00	45.000	212.01
23.800	0.04	0.47	0.56	0.05	0.00	45.000	212.01
23.850	0.04	0.47	0.56	0.05	0.00	44.000	212.01
23.900	0.04	0.46	0.55	0.05	0.00	44.000	212.01
23.950	0.04	0.46	0.55	0.04	0.00	44.000	212.01
24.000	0.04	0.46	0.55	0.04	0.00	43.000	212.01

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1C (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1C (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1C (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
3.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
3.500	0.00	0.00	0.01	0.00	0.00	0.000	212.00
3.550	0.00	0.01	0.01	0.00	0.00	1.000	212.00
3.600	0.00	0.01	0.01	0.00	0.00	1.000	212.00
3.650	0.00	0.01	0.02	0.00	0.00	1.000	212.00
3.700	0.00	0.02	0.02	0.00	0.00	2.000	212.00
3.750	0.00	0.02	0.03	0.00	0.00	2.000	212.00
3.800	0.01	0.03	0.03	0.00	0.00	3.000	212.00
3.850	0.01	0.03	0.04	0.00	0.00	3.000	212.00
3.900	0.01	0.04	0.04	0.00	0.00	3.000	212.00
3.950	0.01	0.04	0.05	0.00	0.00	4.000	212.00
4.000	0.01	0.05	0.06	0.00	0.00	4.000	212.00
4.050	0.01	0.05	0.06	0.01	0.00	5.000	212.00
4.100	0.01	0.06	0.07	0.01	0.00	5.000	212.00
4.150	0.01	0.06	0.08	0.01	0.00	6.000	212.00
4.200	0.01	0.07	0.08	0.01	0.00	7.000	212.00
4.250	0.01	0.08	0.09	0.01	0.00	7.000	212.00
4.300	0.01	0.08	0.10	0.01	0.00	8.000	212.00
4.350	0.01	0.09	0.10	0.01	0.00	8.000	212.00
4.400	0.01	0.09	0.11	0.01	0.00	9.000	212.00
4.450	0.01	0.10	0.12	0.01	0.00	9.000	212.00
4.500	0.01	0.11	0.13	0.01	0.00	10.000	212.00
4.550	0.01	0.11	0.13	0.01	0.00	11.000	212.00
4.600	0.01	0.12	0.14	0.01	0.00	11.000	212.00
4.650	0.02	0.12	0.15	0.01	0.00	12.000	212.00
4.700	0.02	0.13	0.16	0.01	0.00	12.000	212.00
4.750	0.02	0.14	0.16	0.01	0.00	13.000	212.00
4.800	0.02	0.14	0.17	0.01	0.00	14.000	212.00
4.850	0.02	0.15	0.18	0.01	0.00	14.000	212.00
4.900	0.02	0.16	0.19	0.02	0.00	15.000	212.00
4.950	0.02	0.16	0.19	0.02	0.00	15.000	212.01
5.000	0.02	0.17	0.20	0.02	0.00	16.000	212.01
5.050	0.02	0.18	0.21	0.02	0.00	17.000	212.01
5.100	0.02	0.18	0.22	0.02	0.00	17.000	212.01
5.150	0.02	0.19	0.23	0.02	0.00	18.000	212.01
5.200	0.02	0.20	0.23	0.02	0.00	19.000	212.01
5.250	0.02	0.20	0.24	0.02	0.00	19.000	212.01
5.300	0.02	0.21	0.25	0.02	0.00	20.000	212.01
5.350	0.02	0.22	0.26	0.02	0.00	21.000	212.01

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1C (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
5.400	0.03	0.22	0.27	0.02	0.00	21.000	212.01
5.450	0.03	0.23	0.27	0.02	0.00	22.000	212.01
5.500	0.03	0.24	0.28	0.02	0.00	22.000	212.01
5.550	0.03	0.24	0.29	0.02	0.00	23.000	212.01
5.600	0.03	0.25	0.30	0.02	0.00	24.000	212.01
5.650	0.03	0.26	0.31	0.03	0.00	24.000	212.01
5.700	0.03	0.26	0.32	0.03	0.00	25.000	212.01
5.750	0.03	0.27	0.32	0.03	0.00	26.000	212.01
5.800	0.03	0.28	0.33	0.03	0.00	26.000	212.01
5.850	0.03	0.28	0.34	0.03	0.00	27.000	212.01
5.900	0.03	0.29	0.35	0.03	0.00	28.000	212.01
5.950	0.03	0.30	0.36	0.03	0.00	28.000	212.01
6.000	0.03	0.31	0.37	0.03	0.00	29.000	212.01
6.050	0.03	0.31	0.37	0.03	0.00	30.000	212.01
6.100	0.04	0.32	0.38	0.03	0.00	30.000	212.01
6.150	0.04	0.33	0.39	0.03	0.00	31.000	212.01
6.200	0.04	0.34	0.40	0.03	0.00	32.000	212.01
6.250	0.04	0.35	0.41	0.03	0.00	33.000	212.01
6.300	0.04	0.35	0.42	0.03	0.00	34.000	212.01
6.350	0.04	0.36	0.44	0.04	0.00	35.000	212.01
6.400	0.04	0.37	0.45	0.04	0.00	36.000	212.01
6.450	0.04	0.38	0.46	0.04	0.00	37.000	212.01
6.500	0.04	0.40	0.47	0.04	0.00	38.000	212.01
6.550	0.05	0.41	0.49	0.04	0.00	39.000	212.01
6.600	0.05	0.42	0.50	0.04	0.00	40.000	212.01
6.650	0.05	0.43	0.51	0.04	0.00	41.000	212.01
6.700	0.05	0.44	0.53	0.04	0.00	42.000	212.01
6.750	0.05	0.45	0.54	0.04	0.00	43.000	212.01
6.800	0.05	0.47	0.56	0.05	0.00	44.000	212.01
6.850	0.05	0.48	0.57	0.05	0.00	46.000	212.01
6.900	0.06	0.49	0.59	0.05	0.00	47.000	212.02
6.950	0.06	0.50	0.60	0.05	0.00	48.000	212.02
7.000	0.06	0.52	0.62	0.05	0.00	49.000	212.02
7.050	0.06	0.53	0.64	0.05	0.00	51.000	212.02
7.100	0.06	0.54	0.65	0.05	0.00	52.000	212.02
7.150	0.06	0.56	0.67	0.05	0.00	53.000	212.02
7.200	0.06	0.57	0.68	0.06	0.00	54.000	212.02
7.250	0.07	0.59	0.70	0.06	0.00	56.000	212.02
7.300	0.07	0.60	0.72	0.06	0.00	57.000	212.02
7.350	0.07	0.62	0.74	0.06	0.00	59.000	212.02
7.400	0.07	0.63	0.75	0.06	0.00	60.000	212.02
7.450	0.07	0.64	0.77	0.06	0.00	61.000	212.02
7.500	0.07	0.66	0.79	0.06	0.00	63.000	212.02
7.550	0.07	0.68	0.81	0.07	0.00	64.000	212.02
7.600	0.08	0.69	0.83	0.07	0.00	66.000	212.02
7.650	0.08	0.71	0.84	0.07	0.00	67.000	212.02

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1C (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
7.700	0.08	0.72	0.86	0.07	0.00	69.000	212.02
7.750	0.08	0.74	0.88	0.07	0.00	70.000	212.02
7.800	0.08	0.75	0.90	0.07	0.00	72.000	212.02
7.850	0.08	0.77	0.92	0.08	0.00	73.000	212.02
7.900	0.09	0.78	0.94	0.08	0.00	75.000	212.02
7.950	0.09	0.80	0.96	0.08	0.00	76.000	212.02
8.000	0.09	0.82	0.98	0.08	0.00	78.000	212.03
8.050	0.09	0.83	1.00	0.08	0.00	79.000	212.03
8.100	0.09	0.85	1.02	0.08	0.00	81.000	212.03
8.150	0.10	0.87	1.04	0.09	0.00	83.000	212.03
8.200	0.10	0.89	1.07	0.09	0.00	85.000	212.03
8.250	0.10	0.91	1.09	0.09	0.00	87.000	212.03
8.300	0.10	0.94	1.12	0.09	0.00	89.000	212.03
8.350	0.11	0.96	1.15	0.09	0.00	92.000	212.03
8.400	0.11	0.99	1.18	0.10	0.00	94.000	212.03
8.450	0.11	1.01	1.21	0.10	0.00	97.000	212.03
8.500	0.12	1.04	1.25	0.10	0.00	99.000	212.03
8.550	0.12	1.07	1.28	0.10	0.00	102.000	212.03
8.600	0.12	1.10	1.31	0.11	0.00	105.000	212.03
8.650	0.13	1.13	1.35	0.11	0.00	108.000	212.04
8.700	0.13	1.16	1.39	0.11	0.00	110.000	212.04
8.750	0.13	1.19	1.42	0.12	0.00	113.000	212.04
8.800	0.14	1.22	1.46	0.12	0.00	116.000	212.04
8.850	0.14	1.25	1.50	0.12	0.00	119.000	212.04
8.900	0.14	1.29	1.54	0.13	0.00	123.000	212.04
8.950	0.15	1.32	1.58	0.13	0.00	126.000	212.04
9.000	0.15	1.35	1.62	0.13	0.00	129.000	212.04
9.050	0.15	1.39	1.66	0.14	0.00	132.000	212.04
9.100	0.16	1.42	1.70	0.14	0.00	136.000	212.04
9.150	0.16	1.46	1.74	0.14	0.00	139.000	212.05
9.200	0.16	1.49	1.78	0.15	0.00	142.000	212.05
9.250	0.17	1.53	1.83	0.15	0.00	146.000	212.05
9.300	0.17	1.56	1.87	0.15	0.00	149.000	212.05
9.350	0.18	1.60	1.91	0.16	0.00	152.000	212.05
9.400	0.18	1.64	1.95	0.16	0.00	156.000	212.05
9.450	0.18	1.67	2.00	0.16	0.00	159.000	212.05
9.500	0.19	1.71	2.04	0.17	0.00	163.000	212.05
9.550	0.19	1.75	2.09	0.17	0.00	167.000	212.05
9.600	0.20	1.78	2.13	0.17	0.00	170.000	212.06
9.650	0.20	1.82	2.18	0.18	0.00	174.000	212.06
9.700	0.20	1.86	2.22	0.18	0.00	178.000	212.06
9.750	0.21	1.90	2.27	0.19	0.00	181.000	212.06
9.800	0.21	1.94	2.32	0.19	0.00	185.000	212.06
9.850	0.21	1.98	2.36	0.19	0.00	189.000	212.06
9.900	0.22	2.02	2.41	0.20	0.00	192.000	212.06
9.950	0.22	2.06	2.46	0.20	0.00	196.000	212.06

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
10.000	0.23	2.10	2.50	0.20	0.00	200.000	212.07
10.050	0.23	2.14	2.55	0.21	0.00	204.000	212.07
10.100	0.24	2.18	2.61	0.21	0.00	208.000	212.07
10.150	0.24	2.23	2.66	0.22	0.00	213.000	212.07
10.200	0.25	2.28	2.72	0.22	0.00	217.000	212.07
10.250	0.26	2.33	2.78	0.23	0.00	223.000	212.07
10.300	0.27	2.39	2.85	0.23	0.00	228.000	212.07
10.350	0.27	2.45	2.92	0.24	0.00	234.000	212.08
10.400	0.28	2.51	3.00	0.25	0.00	240.000	212.08
10.450	0.29	2.57	3.08	0.25	0.00	246.000	212.08
10.500	0.30	2.64	3.16	0.26	0.00	253.000	212.08
10.550	0.30	2.71	3.24	0.26	0.00	259.000	212.08
10.600	0.31	2.78	3.32	0.27	0.00	266.000	212.09
10.650	0.32	2.85	3.41	0.28	0.00	273.000	212.09
10.700	0.33	2.92	3.49	0.29	0.00	280.000	212.09
10.750	0.33	3.00	3.58	0.29	0.00	287.000	212.09
10.800	0.34	3.07	3.67	0.30	0.00	294.000	212.10
10.850	0.35	3.15	3.76	0.31	0.00	301.000	212.10
10.900	0.36	3.22	3.85	0.31	0.00	309.000	212.10
10.950	0.36	3.30	3.94	0.32	0.00	316.000	212.10
11.000	0.37	3.38	4.04	0.33	0.00	324.000	212.11
11.050	0.39	3.46	4.14	0.34	0.00	332.000	212.11
11.100	0.40	3.56	4.25	0.35	0.00	341.000	212.11
11.150	0.43	3.67	4.39	0.36	0.00	352.000	212.11
11.200	0.45	3.81	4.55	0.37	0.00	366.000	212.12
11.250	0.48	3.97	4.74	0.39	0.00	381.000	212.12
11.300	0.51	4.15	4.96	0.41	0.00	398.000	212.13
11.350	0.54	4.34	5.19	0.42	0.00	417.000	212.14
11.400	0.56	4.55	5.44	0.44	0.00	438.000	212.14
11.450	0.59	4.77	5.70	0.47	0.00	459.000	212.15
11.500	0.62	5.00	5.98	0.49	0.00	482.000	212.16
11.550	0.73	5.31	6.35	0.52	0.00	512.000	212.17
11.600	0.86	5.78	6.90	0.56	0.00	557.000	212.18
11.650	1.08	6.46	7.72	0.63	0.00	624.000	212.20
11.700	1.33	7.43	8.88	0.73	0.00	720.000	212.23
11.750	1.59	8.66	10.36	0.85	0.00	843.000	212.27
11.800	1.86	10.14	12.12	0.99	0.00	990.000	212.32
11.850	2.13	11.82	14.13	1.15	0.00	1,159.000	212.37
11.900	2.41	13.69	16.36	1.34	0.00	1,349.000	212.43
11.950	3.41	16.31	19.51	1.41	0.19	1,611.000	212.51
12.000	4.63	19.23	24.35	1.41	1.15	1,949.000	212.61
12.050	4.98	21.94	28.84	1.41	2.04	2,268.000	212.70
12.100	5.09	23.86	32.01	1.41	2.67	2,496.000	212.77
12.150	4.20	24.54	33.15	1.41	2.89	2,578.000	212.79
12.200	3.01	23.70	31.75	1.41	2.62	2,477.000	212.76
12.250	2.52	22.18	29.23	1.41	2.12	2,296.000	212.71

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1C (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
12.300	2.20	20.77	26.90	1.41	1.66	2,129.000	212.66
12.350	1.92	19.56	24.89	1.41	1.26	1,987.000	212.62
12.400	1.65	18.49	23.13	1.41	0.91	1,863.000	212.58
12.450	1.38	17.52	21.52	1.41	0.59	1,751.000	212.55
12.500	1.10	16.61	20.00	1.41	0.29	1,645.000	212.52
12.550	0.92	15.62	18.63	1.41	0.09	1,541.000	212.48
12.600	0.76	14.48	17.31	1.41	0.00	1,431.000	212.45
12.650	0.70	13.35	15.95	1.30	0.00	1,315.000	212.42
12.700	0.67	12.31	14.72	1.20	0.00	1,209.000	212.38
12.750	0.64	11.39	13.62	1.11	0.00	1,116.000	212.36
12.800	0.61	10.58	12.64	1.03	0.00	1,034.000	212.33
12.850	0.58	9.85	11.77	0.96	0.00	960.000	212.31
12.900	0.55	9.19	10.98	0.90	0.00	894.000	212.29
12.950	0.52	8.59	10.26	0.84	0.00	835.000	212.27
13.000	0.50	8.04	9.61	0.79	0.00	780.000	212.25
13.050	0.48	7.53	9.01	0.74	0.00	730.000	212.23
13.100	0.46	7.08	8.47	0.69	0.00	686.000	212.22
13.150	0.45	6.68	7.99	0.65	0.00	646.000	212.21
13.200	0.44	6.33	7.57	0.62	0.00	611.000	212.20
13.250	0.43	6.02	7.20	0.59	0.00	581.000	212.19
13.300	0.42	5.75	6.88	0.56	0.00	555.000	212.18
13.350	0.42	5.51	6.59	0.54	0.00	532.000	212.17
13.400	0.41	5.30	6.34	0.52	0.00	511.000	212.17
13.450	0.40	5.11	6.11	0.50	0.00	492.000	212.16
13.500	0.39	4.94	5.91	0.48	0.00	476.000	212.15
13.550	0.39	4.79	5.72	0.47	0.00	460.000	212.15
13.600	0.38	4.64	5.55	0.45	0.00	447.000	212.14
13.650	0.37	4.51	5.39	0.44	0.00	434.000	212.14
13.700	0.36	4.39	5.25	0.43	0.00	422.000	212.14
13.750	0.36	4.27	5.11	0.42	0.00	411.000	212.13
13.800	0.35	4.17	4.98	0.41	0.00	400.000	212.13
13.850	0.34	4.06	4.86	0.40	0.00	390.000	212.13
13.900	0.33	3.96	4.74	0.39	0.00	380.000	212.12
13.950	0.33	3.87	4.62	0.38	0.00	371.000	212.12
14.000	0.32	3.77	4.51	0.37	0.00	362.000	212.12
14.050	0.31	3.69	4.41	0.36	0.00	354.000	212.11
14.100	0.31	3.60	4.31	0.35	0.00	345.000	212.11
14.150	0.30	3.52	4.21	0.34	0.00	338.000	212.11
14.200	0.30	3.45	4.13	0.34	0.00	331.000	212.11
14.250	0.30	3.39	4.05	0.33	0.00	324.000	212.11
14.300	0.29	3.32	3.97	0.32	0.00	318.000	212.10
14.350	0.29	3.27	3.90	0.32	0.00	313.000	212.10
14.400	0.29	3.21	3.84	0.31	0.00	308.000	212.10
14.450	0.28	3.16	3.78	0.31	0.00	303.000	212.10
14.500	0.28	3.11	3.72	0.30	0.00	298.000	212.10
14.550	0.27	3.07	3.66	0.30	0.00	293.000	212.10

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) — Return Event: 25 years
Label: IB-1C (OUT) — Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
14.600	0.27	3.02	3.61	0.30	0.00	289.000	212.09
14.650	0.27	2.98	3.56	0.29	0.00	285.000	212.09
14.700	0.26	2.93	3.51	0.29	0.00	281.000	212.09
14.750	0.26	2.89	3.46	0.28	0.00	277.000	212.09
14.800	0.26	2.85	3.41	0.28	0.00	273.000	212.09
14.850	0.25	2.81	3.36	0.27	0.00	269.000	212.09
14.900	0.25	2.77	3.31	0.27	0.00	265.000	212.09
14.950	0.25	2.73	3.27	0.27	0.00	261.000	212.09
15.000	0.24	2.69	3.22	0.26	0.00	258.000	212.08
15.050	0.24	2.65	3.17	0.26	0.00	254.000	212.08
15.100	0.23	2.62	3.13	0.26	0.00	250.000	212.08
15.150	0.23	2.58	3.08	0.25	0.00	246.000	212.08
15.200	0.23	2.54	3.04	0.25	0.00	243.000	212.08
15.250	0.22	2.50	2.99	0.24	0.00	239.000	212.08
15.300	0.22	2.46	2.95	0.24	0.00	236.000	212.08
15.350	0.22	2.43	2.90	0.24	0.00	232.000	212.08
15.400	0.21	2.39	2.86	0.23	0.00	228.000	212.07
15.450	0.21	2.35	2.81	0.23	0.00	225.000	212.07
15.500	0.21	2.32	2.77	0.23	0.00	221.000	212.07
15.550	0.20	2.28	2.72	0.22	0.00	218.000	212.07
15.600	0.20	2.24	2.68	0.22	0.00	214.000	212.07
15.650	0.19	2.20	2.63	0.22	0.00	210.000	212.07
15.700	0.19	2.17	2.59	0.21	0.00	207.000	212.07
15.750	0.19	2.13	2.54	0.21	0.00	203.000	212.07
15.800	0.18	2.09	2.50	0.20	0.00	200.000	212.07
15.850	0.18	2.05	2.46	0.20	0.00	196.000	212.06
15.900	0.18	2.02	2.41	0.20	0.00	193.000	212.06
15.950	0.17	1.98	2.37	0.19	0.00	189.000	212.06
16.000	0.17	1.94	2.32	0.19	0.00	185.000	212.06
16.050	0.17	1.91	2.28	0.19	0.00	182.000	212.06
16.100	0.16	1.87	2.24	0.18	0.00	179.000	212.06
16.150	0.16	1.84	2.20	0.18	0.00	176.000	212.06
16.200	0.16	1.81	2.16	0.18	0.00	173.000	212.06
16.250	0.16	1.78	2.13	0.17	0.00	170.000	212.06
16.300	0.16	1.75	2.10	0.17	0.00	167.000	212.05
16.350	0.16	1.73	2.07	0.17	0.00	165.000	212.05
16.400	0.15	1.71	2.04	0.17	0.00	163.000	212.05
16.450	0.15	1.68	2.01	0.16	0.00	161.000	212.05
16.500	0.15	1.66	1.99	0.16	0.00	159.000	212.05
16.550	0.15	1.64	1.96	0.16	0.00	157.000	212.05
16.600	0.15	1.62	1.94	0.16	0.00	155.000	212.05
16.650	0.15	1.60	1.92	0.16	0.00	153.000	212.05
16.700	0.14	1.58	1.89	0.15	0.00	151.000	212.05
16.750	0.14	1.57	1.87	0.15	0.00	149.000	212.05
16.800	0.14	1.55	1.85	0.15	0.00	148.000	212.05
16.850	0.14	1.53	1.83	0.15	0.00	146.000	212.05

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1C (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
16.900	0.14	1.51	1.81	0.15	0.00	144.000	212.05
16.950	0.14	1.50	1.79	0.15	0.00	143.000	212.05
17.000	0.14	1.48	1.77	0.14	0.00	141.000	212.05
17.050	0.13	1.46	1.75	0.14	0.00	139.000	212.05
17.100	0.13	1.45	1.73	0.14	0.00	138.000	212.05
17.150	0.13	1.43	1.71	0.14	0.00	136.000	212.04
17.200	0.13	1.41	1.69	0.14	0.00	135.000	212.04
17.250	0.13	1.40	1.67	0.14	0.00	133.000	212.04
17.300	0.13	1.38	1.65	0.13	0.00	131.000	212.04
17.350	0.12	1.36	1.63	0.13	0.00	130.000	212.04
17.400	0.12	1.35	1.61	0.13	0.00	128.000	212.04
17.450	0.12	1.33	1.59	0.13	0.00	127.000	212.04
17.500	0.12	1.31	1.57	0.13	0.00	125.000	212.04
17.550	0.12	1.30	1.55	0.13	0.00	124.000	212.04
17.600	0.12	1.28	1.53	0.13	0.00	122.000	212.04
17.650	0.11	1.27	1.51	0.12	0.00	121.000	212.04
17.700	0.11	1.25	1.49	0.12	0.00	119.000	212.04
17.750	0.11	1.23	1.47	0.12	0.00	117.000	212.04
17.800	0.11	1.22	1.45	0.12	0.00	116.000	212.04
17.850	0.11	1.20	1.44	0.12	0.00	114.000	212.04
17.900	0.11	1.18	1.42	0.12	0.00	113.000	212.04
17.950	0.11	1.17	1.40	0.11	0.00	111.000	212.04
18.000	0.10	1.15	1.38	0.11	0.00	110.000	212.04
18.050	0.10	1.14	1.36	0.11	0.00	108.000	212.04
18.100	0.10	1.12	1.34	0.11	0.00	107.000	212.03
18.150	0.10	1.11	1.32	0.11	0.00	105.000	212.03
18.200	0.10	1.09	1.31	0.11	0.00	104.000	212.03
18.250	0.10	1.08	1.29	0.11	0.00	103.000	212.03
18.300	0.10	1.07	1.28	0.10	0.00	102.000	212.03
18.350	0.10	1.06	1.27	0.10	0.00	101.000	212.03
18.400	0.10	1.05	1.26	0.10	0.00	100.000	212.03
18.450	0.10	1.05	1.25	0.10	0.00	100.000	212.03
18.500	0.10	1.04	1.24	0.10	0.00	99.000	212.03
18.550	0.10	1.03	1.23	0.10	0.00	98.000	212.03
18.600	0.10	1.02	1.22	0.10	0.00	98.000	212.03
18.650	0.10	1.02	1.22	0.10	0.00	97.000	212.03
18.700	0.10	1.01	1.21	0.10	0.00	96.000	212.03
18.750	0.10	1.01	1.20	0.10	0.00	96.000	212.03
18.800	0.09	1.00	1.20	0.10	0.00	95.000	212.03
18.850	0.09	1.00	1.19	0.10	0.00	95.000	212.03
18.900	0.09	0.99	1.18	0.10	0.00	94.000	212.03
18.950	0.09	0.98	1.18	0.10	0.00	94.000	212.03
19.000	0.09	0.98	1.17	0.10	0.00	93.000	212.03
19.050	0.09	0.97	1.16	0.10	0.00	93.000	212.03
19.100	0.09	0.97	1.16	0.09	0.00	92.000	212.03
19.150	0.09	0.96	1.15	0.09	0.00	92.000	212.03

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1C (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
19.200	0.09	0.96	1.15	0.09	0.00	91.000	212.03
19.250	0.09	0.95	1.14	0.09	0.00	91.000	212.03
19.300	0.09	0.95	1.13	0.09	0.00	90.000	212.03
19.350	0.09	0.94	1.13	0.09	0.00	90.000	212.03
19.400	0.09	0.94	1.12	0.09	0.00	89.000	212.03
19.450	0.09	0.93	1.12	0.09	0.00	89.000	212.03
19.500	0.09	0.93	1.11	0.09	0.00	88.000	212.03
19.550	0.09	0.92	1.10	0.09	0.00	88.000	212.03
19.600	0.09	0.92	1.10	0.09	0.00	87.000	212.03
19.650	0.09	0.91	1.09	0.09	0.00	87.000	212.03
19.700	0.09	0.91	1.09	0.09	0.00	87.000	212.03
19.750	0.09	0.90	1.08	0.09	0.00	86.000	212.03
19.800	0.09	0.90	1.07	0.09	0.00	86.000	212.03
19.850	0.08	0.89	1.07	0.09	0.00	85.000	212.03
19.900	0.08	0.89	1.06	0.09	0.00	85.000	212.03
19.950	0.08	0.88	1.06	0.09	0.00	84.000	212.03
20.000	0.08	0.88	1.05	0.09	0.00	84.000	212.03
20.050	0.08	0.87	1.05	0.09	0.00	83.000	212.03
20.100	0.08	0.87	1.04	0.08	0.00	83.000	212.03
20.150	0.08	0.87	1.03	0.08	0.00	82.000	212.03
20.200	0.08	0.86	1.03	0.08	0.00	82.000	212.03
20.250	0.08	0.86	1.02	0.08	0.00	82.000	212.03
20.300	0.08	0.85	1.02	0.08	0.00	81.000	212.03
20.350	0.08	0.85	1.01	0.08	0.00	81.000	212.03
20.400	0.08	0.84	1.01	0.08	0.00	80.000	212.03
20.450	0.08	0.84	1.00	0.08	0.00	80.000	212.03
20.500	0.08	0.84	1.00	0.08	0.00	80.000	212.03
20.550	0.08	0.83	1.00	0.08	0.00	79.000	212.03
20.600	0.08	0.83	0.99	0.08	0.00	79.000	212.03
20.650	0.08	0.82	0.99	0.08	0.00	78.000	212.03
20.700	0.08	0.82	0.98	0.08	0.00	78.000	212.03
20.750	0.08	0.82	0.98	0.08	0.00	78.000	212.03
20.800	0.08	0.81	0.97	0.08	0.00	77.000	212.03
20.850	0.08	0.81	0.97	0.08	0.00	77.000	212.03
20.900	0.08	0.81	0.96	0.08	0.00	77.000	212.03
20.950	0.08	0.80	0.96	0.08	0.00	76.000	212.03
21.000	0.08	0.80	0.95	0.08	0.00	76.000	212.02
21.050	0.08	0.80	0.95	0.08	0.00	76.000	212.02
21.100	0.08	0.79	0.95	0.08	0.00	75.000	212.02
21.150	0.07	0.79	0.94	0.08	0.00	75.000	212.02
21.200	0.07	0.78	0.94	0.08	0.00	75.000	212.02
21.250	0.07	0.78	0.93	0.08	0.00	74.000	212.02
21.300	0.07	0.78	0.93	0.08	0.00	74.000	212.02
21.350	0.07	0.77	0.92	0.08	0.00	74.000	212.02
21.400	0.07	0.77	0.92	0.08	0.00	73.000	212.02
21.450	0.07	0.77	0.92	0.07	0.00	73.000	212.02

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
21.500	0.07	0.76	0.91	0.07	0.00	72.000	212.02
21.550	0.07	0.76	0.91	0.07	0.00	72.000	212.02
21.600	0.07	0.75	0.90	0.07	0.00	72.000	212.02
21.650	0.07	0.75	0.90	0.07	0.00	71.000	212.02
21.700	0.07	0.75	0.89	0.07	0.00	71.000	212.02
21.750	0.07	0.74	0.89	0.07	0.00	71.000	212.02
21.800	0.07	0.74	0.88	0.07	0.00	70.000	212.02
21.850	0.07	0.74	0.88	0.07	0.00	70.000	212.02
21.900	0.07	0.73	0.88	0.07	0.00	70.000	212.02
21.950	0.07	0.73	0.87	0.07	0.00	69.000	212.02
22.000	0.07	0.73	0.87	0.07	0.00	69.000	212.02
22.050	0.07	0.72	0.86	0.07	0.00	69.000	212.02
22.100	0.07	0.72	0.86	0.07	0.00	68.000	212.02
22.150	0.07	0.71	0.85	0.07	0.00	68.000	212.02
22.200	0.07	0.71	0.85	0.07	0.00	68.000	212.02
22.250	0.07	0.71	0.85	0.07	0.00	67.000	212.02
22.300	0.07	0.70	0.84	0.07	0.00	67.000	212.02
22.350	0.07	0.70	0.84	0.07	0.00	67.000	212.02
22.400	0.07	0.70	0.83	0.07	0.00	66.000	212.02
22.450	0.07	0.69	0.83	0.07	0.00	66.000	212.02
22.500	0.07	0.69	0.82	0.07	0.00	66.000	212.02
22.550	0.06	0.68	0.82	0.07	0.00	65.000	212.02
22.600	0.06	0.68	0.81	0.07	0.00	65.000	212.02
22.650	0.06	0.68	0.81	0.07	0.00	65.000	212.02
22.700	0.06	0.67	0.81	0.07	0.00	64.000	212.02
22.750	0.06	0.67	0.80	0.07	0.00	64.000	212.02
22.800	0.06	0.67	0.80	0.07	0.00	63.000	212.02
22.850	0.06	0.66	0.79	0.06	0.00	63.000	212.02
22.900	0.06	0.66	0.79	0.06	0.00	63.000	212.02
22.950	0.06	0.66	0.78	0.06	0.00	62.000	212.02
23.000	0.06	0.65	0.78	0.06	0.00	62.000	212.02
23.050	0.06	0.65	0.78	0.06	0.00	62.000	212.02
23.100	0.06	0.65	0.77	0.06	0.00	61.000	212.02
23.150	0.06	0.64	0.77	0.06	0.00	61.000	212.02
23.200	0.06	0.64	0.76	0.06	0.00	61.000	212.02
23.250	0.06	0.63	0.76	0.06	0.00	60.000	212.02
23.300	0.06	0.63	0.75	0.06	0.00	60.000	212.02
23.350	0.06	0.63	0.75	0.06	0.00	60.000	212.02
23.400	0.06	0.62	0.75	0.06	0.00	59.000	212.02
23.450	0.06	0.62	0.74	0.06	0.00	59.000	212.02
23.500	0.06	0.62	0.74	0.06	0.00	59.000	212.02
23.550	0.06	0.61	0.73	0.06	0.00	58.000	212.02
23.600	0.06	0.61	0.73	0.06	0.00	58.000	212.02
23.650	0.06	0.61	0.72	0.06	0.00	58.000	212.02
23.700	0.06	0.60	0.72	0.06	0.00	57.000	212.02
23.750	0.06	0.60	0.71	0.06	0.00	57.000	212.02

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1C (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
23.800	0.06	0.59	0.71	0.06	0.00	57.000	212.02
23.850	0.06	0.59	0.71	0.06	0.00	56.000	212.02
23.900	0.05	0.59	0.70	0.06	0.00	56.000	212.02
23.950	0.05	0.58	0.70	0.06	0.00	55.000	212.02
24.000	0.05	0.58	0.69	0.06	0.00	55.000	212.02

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1C (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00
0.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1C (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
1.600	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.650	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.700	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.750	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.800	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.850	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.900	0.00	0.00	0.00	0.00	0.00	0.000	212.00
1.950	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.000	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.050	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.100	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.150	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.200	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.250	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.300	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.350	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.400	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.450	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.500	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.550	0.00	0.00	0.00	0.00	0.00	0.000	212.00
2.600	0.00	0.00	0.01	0.00	0.00	0.000	212.00
2.650	0.00	0.01	0.01	0.00	0.00	1.000	212.00
2.700	0.00	0.01	0.02	0.00	0.00	1.000	212.00
2.750	0.00	0.02	0.02	0.00	0.00	2.000	212.00
2.800	0.01	0.02	0.03	0.00	0.00	2.000	212.00
2.850	0.01	0.03	0.04	0.00	0.00	3.000	212.00
2.900	0.01	0.04	0.04	0.00	0.00	4.000	212.00
2.950	0.01	0.04	0.05	0.00	0.00	4.000	212.00
3.000	0.01	0.05	0.06	0.01	0.00	5.000	212.00
3.050	0.01	0.06	0.07	0.01	0.00	6.000	212.00
3.100	0.01	0.07	0.08	0.01	0.00	6.000	212.00
3.150	0.01	0.08	0.09	0.01	0.00	7.000	212.00
3.200	0.01	0.08	0.10	0.01	0.00	8.000	212.00
3.250	0.01	0.09	0.11	0.01	0.00	9.000	212.00
3.300	0.01	0.10	0.12	0.01	0.00	10.000	212.00
3.350	0.02	0.11	0.13	0.01	0.00	11.000	212.00
3.400	0.02	0.12	0.14	0.01	0.00	11.000	212.00
3.450	0.02	0.13	0.15	0.01	0.00	12.000	212.00
3.500	0.02	0.14	0.17	0.01	0.00	13.000	212.00
3.550	0.02	0.15	0.18	0.01	0.00	14.000	212.00
3.600	0.02	0.16	0.19	0.02	0.00	15.000	212.00
3.650	0.02	0.17	0.20	0.02	0.00	16.000	212.01
3.700	0.02	0.18	0.21	0.02	0.00	17.000	212.01
3.750	0.02	0.19	0.22	0.02	0.00	18.000	212.01
3.800	0.02	0.20	0.23	0.02	0.00	19.000	212.01
3.850	0.03	0.21	0.25	0.02	0.00	20.000	212.01

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1C (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
3.900	0.03	0.22	0.26	0.02	0.00	20.000	212.01
3.950	0.03	0.23	0.27	0.02	0.00	21.000	212.01
4.000	0.03	0.24	0.28	0.02	0.00	22.000	212.01
4.050	0.03	0.25	0.29	0.02	0.00	23.000	212.01
4.100	0.03	0.26	0.31	0.02	0.00	24.000	212.01
4.150	0.03	0.27	0.32	0.03	0.00	25.000	212.01
4.200	0.03	0.28	0.33	0.03	0.00	26.000	212.01
4.250	0.03	0.29	0.34	0.03	0.00	27.000	212.01
4.300	0.03	0.30	0.35	0.03	0.00	28.000	212.01
4.350	0.04	0.31	0.37	0.03	0.00	29.000	212.01
4.400	0.04	0.32	0.38	0.03	0.00	30.000	212.01
4.450	0.04	0.33	0.39	0.03	0.00	31.000	212.01
4.500	0.04	0.34	0.40	0.03	0.00	32.000	212.01
4.550	0.04	0.35	0.42	0.03	0.00	33.000	212.01
4.600	0.04	0.36	0.43	0.03	0.00	34.000	212.01
4.650	0.04	0.37	0.44	0.04	0.00	35.000	212.01
4.700	0.04	0.38	0.45	0.04	0.00	36.000	212.01
4.750	0.04	0.39	0.46	0.04	0.00	37.000	212.01
4.800	0.04	0.40	0.48	0.04	0.00	38.000	212.01
4.850	0.05	0.41	0.49	0.04	0.00	39.000	212.01
4.900	0.05	0.42	0.50	0.04	0.00	40.000	212.01
4.950	0.05	0.43	0.51	0.04	0.00	41.000	212.01
5.000	0.05	0.44	0.53	0.04	0.00	42.000	212.01
5.050	0.05	0.45	0.54	0.04	0.00	43.000	212.01
5.100	0.05	0.46	0.55	0.05	0.00	44.000	212.01
5.150	0.05	0.47	0.57	0.05	0.00	45.000	212.01
5.200	0.05	0.48	0.58	0.05	0.00	46.000	212.02
5.250	0.05	0.49	0.59	0.05	0.00	47.000	212.02
5.300	0.06	0.50	0.60	0.05	0.00	48.000	212.02
5.350	0.06	0.52	0.62	0.05	0.00	49.000	212.02
5.400	0.06	0.53	0.63	0.05	0.00	50.000	212.02
5.450	0.06	0.54	0.64	0.05	0.00	51.000	212.02
5.500	0.06	0.55	0.65	0.05	0.00	52.000	212.02
5.550	0.06	0.56	0.67	0.05	0.00	53.000	212.02
5.600	0.06	0.57	0.68	0.06	0.00	54.000	212.02
5.650	0.06	0.58	0.69	0.06	0.00	55.000	212.02
5.700	0.06	0.59	0.70	0.06	0.00	56.000	212.02
5.750	0.06	0.60	0.72	0.06	0.00	57.000	212.02
5.800	0.07	0.61	0.73	0.06	0.00	58.000	212.02
5.850	0.07	0.62	0.74	0.06	0.00	59.000	212.02
5.900	0.07	0.63	0.76	0.06	0.00	60.000	212.02
5.950	0.07	0.64	0.77	0.06	0.00	61.000	212.02
6.000	0.07	0.65	0.78	0.06	0.00	62.000	212.02
6.050	0.07	0.66	0.79	0.06	0.00	63.000	212.02
6.100	0.07	0.68	0.81	0.07	0.00	64.000	212.02
6.150	0.07	0.69	0.82	0.07	0.00	65.000	212.02

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1C (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
6.200	0.08	0.70	0.84	0.07	0.00	67.000	212.02
6.250	0.08	0.72	0.86	0.07	0.00	68.000	212.02
6.300	0.08	0.73	0.87	0.07	0.00	70.000	212.02
6.350	0.08	0.75	0.89	0.07	0.00	71.000	212.02
6.400	0.08	0.76	0.91	0.07	0.00	73.000	212.02
6.450	0.09	0.78	0.93	0.08	0.00	74.000	212.02
6.500	0.09	0.80	0.95	0.08	0.00	76.000	212.02
6.550	0.09	0.82	0.98	0.08	0.00	78.000	212.03
6.600	0.09	0.83	1.00	0.08	0.00	79.000	212.03
6.650	0.09	0.85	1.02	0.08	0.00	81.000	212.03
6.700	0.10	0.87	1.04	0.09	0.00	83.000	212.03
6.750	0.10	0.89	1.07	0.09	0.00	85.000	212.03
6.800	0.10	0.91	1.09	0.09	0.00	87.000	212.03
6.850	0.10	0.93	1.12	0.09	0.00	89.000	212.03
6.900	0.10	0.95	1.14	0.09	0.00	91.000	212.03
6.950	0.11	0.97	1.17	0.10	0.00	93.000	212.03
7.000	0.11	1.00	1.19	0.10	0.00	95.000	212.03
7.050	0.11	1.02	1.22	0.10	0.00	97.000	212.03
7.100	0.11	1.04	1.24	0.10	0.00	99.000	212.03
7.150	0.12	1.06	1.27	0.10	0.00	101.000	212.03
7.200	0.12	1.08	1.29	0.11	0.00	103.000	212.03
7.250	0.12	1.10	1.32	0.11	0.00	105.000	212.03
7.300	0.12	1.13	1.35	0.11	0.00	107.000	212.04
7.350	0.12	1.15	1.37	0.11	0.00	110.000	212.04
7.400	0.13	1.17	1.40	0.11	0.00	112.000	212.04
7.450	0.13	1.20	1.43	0.12	0.00	114.000	212.04
7.500	0.13	1.22	1.46	0.12	0.00	116.000	212.04
7.550	0.13	1.24	1.48	0.12	0.00	118.000	212.04
7.600	0.14	1.27	1.51	0.12	0.00	121.000	212.04
7.650	0.14	1.29	1.54	0.13	0.00	123.000	212.04
7.700	0.14	1.31	1.57	0.13	0.00	125.000	212.04
7.750	0.14	1.34	1.60	0.13	0.00	127.000	212.04
7.800	0.15	1.36	1.63	0.13	0.00	130.000	212.04
7.850	0.15	1.39	1.66	0.14	0.00	132.000	212.04
7.900	0.15	1.41	1.69	0.14	0.00	134.000	212.04
7.950	0.15	1.43	1.71	0.14	0.00	137.000	212.04
8.000	0.16	1.46	1.74	0.14	0.00	139.000	212.05
8.050	0.16	1.48	1.77	0.14	0.00	141.000	212.05
8.100	0.16	1.51	1.81	0.15	0.00	144.000	212.05
8.150	0.17	1.54	1.84	0.15	0.00	147.000	212.05
8.200	0.17	1.57	1.88	0.15	0.00	150.000	212.05
8.250	0.18	1.61	1.92	0.16	0.00	153.000	212.05
8.300	0.18	1.64	1.96	0.16	0.00	157.000	212.05
8.350	0.19	1.68	2.01	0.16	0.00	160.000	212.05
8.400	0.19	1.72	2.06	0.17	0.00	164.000	212.05
8.450	0.20	1.76	2.11	0.17	0.00	168.000	212.05

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) — Return Event: 100 years
Label: IB-1C (OUT) — Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
8.500	0.20	1.80	2.16	0.18	0.00	172.000	212.06
8.550	0.20	1.85	2.21	0.18	0.00	176.000	212.06
8.600	0.21	1.89	2.26	0.18	0.00	181.000	212.06
8.650	0.21	1.94	2.32	0.19	0.00	185.000	212.06
8.700	0.22	1.99	2.37	0.19	0.00	190.000	212.06
8.750	0.22	2.03	2.43	0.20	0.00	194.000	212.06
8.800	0.23	2.08	2.49	0.20	0.00	199.000	212.06
8.850	0.24	2.13	2.55	0.21	0.00	203.000	212.07
8.900	0.24	2.18	2.61	0.21	0.00	208.000	212.07
8.950	0.25	2.23	2.67	0.22	0.00	213.000	212.07
9.000	0.25	2.28	2.73	0.22	0.00	218.000	212.07
9.050	0.26	2.33	2.79	0.23	0.00	223.000	212.07
9.100	0.26	2.38	2.85	0.23	0.00	228.000	212.07
9.150	0.27	2.43	2.91	0.24	0.00	233.000	212.08
9.200	0.27	2.49	2.97	0.24	0.00	238.000	212.08
9.250	0.28	2.54	3.04	0.25	0.00	243.000	212.08
9.300	0.28	2.59	3.10	0.25	0.00	248.000	212.08
9.350	0.29	2.65	3.16	0.26	0.00	253.000	212.08
9.400	0.29	2.70	3.23	0.26	0.00	258.000	212.08
9.450	0.30	2.75	3.29	0.27	0.00	263.000	212.09
9.500	0.30	2.81	3.36	0.27	0.00	269.000	212.09
9.550	0.31	2.86	3.42	0.28	0.00	274.000	212.09
9.600	0.32	2.92	3.49	0.29	0.00	279.000	212.09
9.650	0.32	2.97	3.55	0.29	0.00	285.000	212.09
9.700	0.33	3.03	3.62	0.30	0.00	290.000	212.09
9.750	0.33	3.08	3.69	0.30	0.00	295.000	212.10
9.800	0.34	3.14	3.75	0.31	0.00	301.000	212.10
9.850	0.34	3.20	3.82	0.31	0.00	306.000	212.10
9.900	0.35	3.25	3.89	0.32	0.00	312.000	212.10
9.950	0.35	3.31	3.96	0.32	0.00	317.000	212.10
10.000	0.36	3.37	4.02	0.33	0.00	323.000	212.10
10.050	0.37	3.43	4.09	0.33	0.00	328.000	212.11
10.100	0.38	3.49	4.17	0.34	0.00	334.000	212.11
10.150	0.39	3.55	4.25	0.35	0.00	341.000	212.11
10.200	0.40	3.63	4.34	0.35	0.00	348.000	212.11
10.250	0.41	3.70	4.43	0.36	0.00	355.000	212.12
10.300	0.42	3.79	4.53	0.37	0.00	363.000	212.12
10.350	0.43	3.88	4.63	0.38	0.00	372.000	212.12
10.400	0.44	3.97	4.74	0.39	0.00	381.000	212.12
10.450	0.45	4.06	4.85	0.40	0.00	390.000	212.13
10.500	0.46	4.16	4.97	0.41	0.00	399.000	212.13
10.550	0.47	4.26	5.09	0.42	0.00	409.000	212.13
10.600	0.48	4.36	5.21	0.43	0.00	419.000	212.14
10.650	0.49	4.46	5.33	0.44	0.00	429.000	212.14
10.700	0.50	4.57	5.46	0.45	0.00	439.000	212.14
10.750	0.52	4.67	5.59	0.46	0.00	449.000	212.15

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) — Return Event: 100 years
Label: IB-1C (OUT) — Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
10.800	0.53	4.78	5.71	0.47	0.00	460.000	212.15
10.850	0.54	4.89	5.84	0.48	0.00	471.000	212.15
10.900	0.55	5.00	5.98	0.49	0.00	481.000	212.16
10.950	0.56	5.11	6.11	0.50	0.00	492.000	212.16
11.000	0.57	5.22	6.24	0.51	0.00	503.000	212.16
11.050	0.59	5.34	6.38	0.52	0.00	515.000	212.17
11.100	0.62	5.48	6.55	0.54	0.00	528.000	212.17
11.150	0.65	5.65	6.75	0.55	0.00	545.000	212.18
11.200	0.69	5.85	6.99	0.57	0.00	564.000	212.18
11.250	0.73	6.08	7.27	0.59	0.00	587.000	212.19
11.300	0.77	6.34	7.58	0.62	0.00	613.000	212.20
11.350	0.81	6.63	7.92	0.65	0.00	641.000	212.21
11.400	0.85	6.93	8.29	0.68	0.00	671.000	212.22
11.450	0.89	7.26	8.68	0.71	0.00	703.000	212.23
11.500	0.93	7.60	9.08	0.74	0.00	737.000	212.24
11.550	1.10	8.05	9.62	0.79	0.00	782.000	212.25
11.600	1.29	8.73	10.44	0.85	0.00	849.000	212.27
11.650	1.62	9.74	11.65	0.95	0.00	950.000	212.30
11.700	1.99	11.17	13.36	1.09	0.00	1,094.000	212.35
11.750	2.37	12.99	15.53	1.27	0.00	1,279.000	212.41
11.800	2.76	15.18	18.12	1.41	0.06	1,498.000	212.47
11.850	3.15	17.26	21.08	1.41	0.50	1,720.000	212.54
11.900	3.54	18.99	23.95	1.41	1.07	1,921.000	212.60
11.950	5.00	21.15	27.53	1.41	1.78	2,174.000	212.67
12.000	6.75	24.39	32.90	1.41	2.84	2,560.000	212.78
12.050	7.23	27.69	38.37	1.41	3.93	2,961.000	212.90
12.100	7.37	30.05	42.28	1.41	4.70	3,252.000	212.98
12.150	6.05	30.78	43.47	1.41	4.93	3,341.000	213.00
12.200	4.34	29.38	41.17	1.41	4.48	3,169.000	212.96
12.250	3.62	27.07	37.34	1.41	3.73	2,885.000	212.88
12.300	3.16	24.97	33.86	1.41	3.03	2,630.000	212.80
12.350	2.75	23.17	30.88	1.41	2.44	2,414.000	212.74
12.400	2.36	21.61	28.29	1.41	1.93	2,228.000	212.69
12.450	1.97	20.19	25.94	1.41	1.47	2,061.000	212.64
12.500	1.58	18.86	23.74	1.41	1.03	1,906.000	212.59
12.550	1.32	17.67	21.76	1.41	0.64	1,768.000	212.55
12.600	1.09	16.65	20.08	1.41	0.30	1,651.000	212.52
12.650	1.01	15.73	18.76	1.41	0.10	1,552.000	212.49
12.700	0.96	14.81	17.69	1.41	0.03	1,463.000	212.46
12.750	0.91	13.96	16.68	1.36	0.00	1,377.000	212.44
12.800	0.87	13.17	15.74	1.29	0.00	1,296.000	212.41
12.850	0.83	12.44	14.87	1.22	0.00	1,222.000	212.39
12.900	0.79	11.76	14.06	1.15	0.00	1,154.000	212.37
12.950	0.75	11.13	13.30	1.09	0.00	1,089.000	212.35
13.000	0.71	10.53	12.59	1.03	0.00	1,029.000	212.33
13.050	0.68	9.97	11.91	0.97	0.00	973.000	212.31

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1C (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
13.100	0.65	9.45	11.30	0.92	0.00	921.000	212.29
13.150	0.64	8.98	10.74	0.88	0.00	874.000	212.28
13.200	0.63	8.57	10.25	0.84	0.00	833.000	212.27
13.250	0.61	8.21	9.81	0.80	0.00	797.000	212.26
13.300	0.60	7.89	9.43	0.77	0.00	765.000	212.25
13.350	0.59	7.60	9.08	0.74	0.00	737.000	212.24
13.400	0.58	7.34	8.78	0.72	0.00	711.000	212.23
13.450	0.57	7.11	8.50	0.69	0.00	688.000	212.22
13.500	0.56	6.89	8.24	0.67	0.00	667.000	212.21
13.550	0.55	6.70	8.01	0.65	0.00	648.000	212.21
13.600	0.54	6.51	7.79	0.64	0.00	630.000	212.20
13.650	0.53	6.34	7.58	0.62	0.00	613.000	212.20
13.700	0.52	6.18	7.39	0.60	0.00	597.000	212.19
13.750	0.51	6.03	7.21	0.59	0.00	582.000	212.19
13.800	0.50	5.89	7.04	0.58	0.00	568.000	212.18
13.850	0.49	5.75	6.87	0.56	0.00	554.000	212.18
13.900	0.48	5.61	6.71	0.55	0.00	541.000	212.18
13.950	0.47	5.48	6.55	0.54	0.00	528.000	212.17
14.000	0.45	5.36	6.40	0.52	0.00	516.000	212.17
14.050	0.45	5.23	6.26	0.51	0.00	504.000	212.16
14.100	0.44	5.12	6.12	0.50	0.00	493.000	212.16
14.150	0.43	5.01	5.98	0.49	0.00	482.000	212.16
14.200	0.43	4.91	5.86	0.48	0.00	472.000	212.15
14.250	0.42	4.81	5.75	0.47	0.00	463.000	212.15
14.300	0.42	4.73	5.65	0.46	0.00	455.000	212.15
14.350	0.41	4.65	5.55	0.45	0.00	447.000	212.14
14.400	0.41	4.57	5.46	0.45	0.00	439.000	212.14
14.450	0.40	4.50	5.38	0.44	0.00	432.000	212.14
14.500	0.40	4.43	5.29	0.43	0.00	426.000	212.14
14.550	0.39	4.36	5.21	0.43	0.00	419.000	212.14
14.600	0.39	4.30	5.14	0.42	0.00	413.000	212.13
14.650	0.38	4.24	5.06	0.41	0.00	407.000	212.13
14.700	0.37	4.18	4.99	0.41	0.00	401.000	212.13
14.750	0.37	4.12	4.92	0.40	0.00	395.000	212.13
14.800	0.36	4.06	4.85	0.40	0.00	390.000	212.13
14.850	0.36	4.00	4.78	0.39	0.00	384.000	212.12
14.900	0.35	3.94	4.71	0.39	0.00	379.000	212.12
14.950	0.35	3.89	4.65	0.38	0.00	373.000	212.12
15.000	0.34	3.83	4.58	0.37	0.00	368.000	212.12
15.050	0.34	3.78	4.52	0.37	0.00	362.000	212.12
15.100	0.33	3.72	4.45	0.36	0.00	357.000	212.12
15.150	0.33	3.67	4.39	0.36	0.00	352.000	212.11
15.200	0.32	3.61	4.32	0.35	0.00	347.000	212.11
15.250	0.32	3.56	4.26	0.35	0.00	341.000	212.11
15.300	0.31	3.51	4.19	0.34	0.00	336.000	212.11
15.350	0.31	3.45	4.13	0.34	0.00	331.000	212.11

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1C (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
15.400	0.30	3.40	4.06	0.33	0.00	326.000	212.11
15.450	0.30	3.35	4.00	0.33	0.00	321.000	212.10
15.500	0.29	3.29	3.94	0.32	0.00	316.000	212.10
15.550	0.29	3.24	3.87	0.32	0.00	310.000	212.10
15.600	0.28	3.19	3.81	0.31	0.00	305.000	212.10
15.650	0.28	3.13	3.75	0.31	0.00	300.000	212.10
15.700	0.27	3.08	3.68	0.30	0.00	295.000	212.10
15.750	0.27	3.03	3.62	0.30	0.00	290.000	212.09
15.800	0.26	2.98	3.56	0.29	0.00	285.000	212.09
15.850	0.26	2.92	3.49	0.29	0.00	280.000	212.09
15.900	0.25	2.87	3.43	0.28	0.00	275.000	212.09
15.950	0.25	2.82	3.37	0.28	0.00	269.000	212.09
16.000	0.24	2.76	3.30	0.27	0.00	264.000	212.09
16.050	0.24	2.71	3.24	0.26	0.00	259.000	212.08
16.100	0.23	2.66	3.18	0.26	0.00	255.000	212.08
16.150	0.23	2.62	3.13	0.26	0.00	250.000	212.08
16.200	0.23	2.57	3.07	0.25	0.00	246.000	212.08
16.250	0.23	2.53	3.03	0.25	0.00	242.000	212.08
16.300	0.22	2.49	2.98	0.24	0.00	238.000	212.08
16.350	0.22	2.46	2.94	0.24	0.00	235.000	212.08
16.400	0.22	2.43	2.90	0.24	0.00	232.000	212.08
16.450	0.22	2.39	2.86	0.23	0.00	229.000	212.07
16.500	0.21	2.36	2.82	0.23	0.00	226.000	212.07
16.550	0.21	2.33	2.79	0.23	0.00	223.000	212.07
16.600	0.21	2.31	2.76	0.23	0.00	220.000	212.07
16.650	0.21	2.28	2.72	0.22	0.00	218.000	212.07
16.700	0.21	2.25	2.69	0.22	0.00	215.000	212.07
16.750	0.20	2.23	2.66	0.22	0.00	213.000	212.07
16.800	0.20	2.20	2.63	0.22	0.00	210.000	212.07
16.850	0.20	2.18	2.60	0.21	0.00	208.000	212.07
16.900	0.20	2.15	2.57	0.21	0.00	205.000	212.07
16.950	0.19	2.13	2.54	0.21	0.00	203.000	212.07
17.000	0.19	2.10	2.51	0.21	0.00	201.000	212.07
17.050	0.19	2.08	2.48	0.20	0.00	198.000	212.06
17.100	0.19	2.05	2.46	0.20	0.00	196.000	212.06
17.150	0.19	2.03	2.43	0.20	0.00	194.000	212.06
17.200	0.18	2.01	2.40	0.20	0.00	192.000	212.06
17.250	0.18	1.98	2.37	0.19	0.00	189.000	212.06
17.300	0.18	1.96	2.34	0.19	0.00	187.000	212.06
17.350	0.18	1.94	2.32	0.19	0.00	185.000	212.06
17.400	0.17	1.91	2.29	0.19	0.00	183.000	212.06
17.450	0.17	1.89	2.26	0.18	0.00	180.000	212.06
17.500	0.17	1.87	2.23	0.18	0.00	178.000	212.06
17.550	0.17	1.84	2.21	0.18	0.00	176.000	212.06
17.600	0.16	1.82	2.18	0.18	0.00	174.000	212.06
17.650	0.16	1.80	2.15	0.18	0.00	172.000	212.06

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1C (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
17.700	0.16	1.78	2.12	0.17	0.00	169.000	212.06
17.750	0.16	1.75	2.09	0.17	0.00	167.000	212.05
17.800	0.16	1.73	2.07	0.17	0.00	165.000	212.05
17.850	0.15	1.71	2.04	0.17	0.00	163.000	212.05
17.900	0.15	1.68	2.01	0.16	0.00	161.000	212.05
17.950	0.15	1.66	1.98	0.16	0.00	158.000	212.05
18.000	0.15	1.64	1.96	0.16	0.00	156.000	212.05
18.050	0.15	1.61	1.93	0.16	0.00	154.000	212.05
18.100	0.14	1.59	1.90	0.16	0.00	152.000	212.05
18.150	0.14	1.57	1.88	0.15	0.00	150.000	212.05
18.200	0.14	1.55	1.86	0.15	0.00	148.000	212.05
18.250	0.14	1.54	1.84	0.15	0.00	147.000	212.05
18.300	0.14	1.52	1.82	0.15	0.00	145.000	212.05
18.350	0.14	1.51	1.80	0.15	0.00	144.000	212.05
18.400	0.14	1.50	1.79	0.15	0.00	143.000	212.05
18.450	0.14	1.49	1.78	0.15	0.00	142.000	212.05
18.500	0.14	1.48	1.76	0.14	0.00	141.000	212.05
18.550	0.14	1.46	1.75	0.14	0.00	140.000	212.05
18.600	0.14	1.46	1.74	0.14	0.00	139.000	212.05
18.650	0.14	1.45	1.73	0.14	0.00	138.000	212.05
18.700	0.14	1.44	1.72	0.14	0.00	137.000	212.04
18.750	0.14	1.43	1.71	0.14	0.00	136.000	212.04
18.800	0.13	1.42	1.70	0.14	0.00	135.000	212.04
18.850	0.13	1.41	1.69	0.14	0.00	135.000	212.04
18.900	0.13	1.41	1.68	0.14	0.00	134.000	212.04
18.950	0.13	1.40	1.67	0.14	0.00	133.000	212.04
19.000	0.13	1.39	1.66	0.14	0.00	132.000	212.04
19.050	0.13	1.38	1.65	0.14	0.00	132.000	212.04
19.100	0.13	1.38	1.64	0.13	0.00	131.000	212.04
19.150	0.13	1.37	1.64	0.13	0.00	130.000	212.04
19.200	0.13	1.36	1.63	0.13	0.00	130.000	212.04
19.250	0.13	1.35	1.62	0.13	0.00	129.000	212.04
19.300	0.13	1.35	1.61	0.13	0.00	128.000	212.04
19.350	0.13	1.34	1.60	0.13	0.00	128.000	212.04
19.400	0.13	1.33	1.59	0.13	0.00	127.000	212.04
19.450	0.13	1.33	1.58	0.13	0.00	126.000	212.04
19.500	0.12	1.32	1.58	0.13	0.00	126.000	212.04
19.550	0.12	1.31	1.57	0.13	0.00	125.000	212.04
19.600	0.12	1.30	1.56	0.13	0.00	124.000	212.04
19.650	0.12	1.30	1.55	0.13	0.00	124.000	212.04
19.700	0.12	1.29	1.54	0.13	0.00	123.000	212.04
19.750	0.12	1.28	1.53	0.13	0.00	122.000	212.04
19.800	0.12	1.28	1.53	0.12	0.00	122.000	212.04
19.850	0.12	1.27	1.52	0.12	0.00	121.000	212.04
19.900	0.12	1.26	1.51	0.12	0.00	120.000	212.04
19.950	0.12	1.26	1.50	0.12	0.00	120.000	212.04

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1C (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
20.000	0.12	1.25	1.49	0.12	0.00	119.000	212.04
20.050	0.12	1.24	1.48	0.12	0.00	118.000	212.04
20.100	0.12	1.23	1.48	0.12	0.00	118.000	212.04
20.150	0.12	1.23	1.47	0.12	0.00	117.000	212.04
20.200	0.12	1.22	1.46	0.12	0.00	116.000	212.04
20.250	0.12	1.22	1.45	0.12	0.00	116.000	212.04
20.300	0.11	1.21	1.45	0.12	0.00	115.000	212.04
20.350	0.11	1.20	1.44	0.12	0.00	115.000	212.04
20.400	0.11	1.20	1.43	0.12	0.00	114.000	212.04
20.450	0.11	1.19	1.43	0.12	0.00	114.000	212.04
20.500	0.11	1.19	1.42	0.12	0.00	113.000	212.04
20.550	0.11	1.18	1.41	0.12	0.00	113.000	212.04
20.600	0.11	1.18	1.41	0.11	0.00	112.000	212.04
20.650	0.11	1.17	1.40	0.11	0.00	112.000	212.04
20.700	0.11	1.17	1.39	0.11	0.00	111.000	212.04
20.750	0.11	1.16	1.39	0.11	0.00	110.000	212.04
20.800	0.11	1.15	1.38	0.11	0.00	110.000	212.04
20.850	0.11	1.15	1.37	0.11	0.00	109.000	212.04
20.900	0.11	1.14	1.37	0.11	0.00	109.000	212.04
20.950	0.11	1.14	1.36	0.11	0.00	108.000	212.04
21.000	0.11	1.13	1.35	0.11	0.00	108.000	212.04
21.050	0.11	1.13	1.35	0.11	0.00	108.000	212.04
21.100	0.11	1.12	1.34	0.11	0.00	107.000	212.04
21.150	0.11	1.12	1.34	0.11	0.00	106.000	212.03
21.200	0.11	1.11	1.33	0.11	0.00	106.000	212.03
21.250	0.11	1.11	1.32	0.11	0.00	105.000	212.03
21.300	0.10	1.10	1.32	0.11	0.00	105.000	212.03
21.350	0.10	1.10	1.31	0.11	0.00	104.000	212.03
21.400	0.10	1.09	1.31	0.11	0.00	104.000	212.03
21.450	0.10	1.09	1.30	0.11	0.00	104.000	212.03
21.500	0.10	1.08	1.29	0.11	0.00	103.000	212.03
21.550	0.10	1.08	1.29	0.11	0.00	102.000	212.03
21.600	0.10	1.07	1.28	0.10	0.00	102.000	212.03
21.650	0.10	1.07	1.27	0.10	0.00	101.000	212.03
21.700	0.10	1.06	1.27	0.10	0.00	101.000	212.03
21.750	0.10	1.05	1.26	0.10	0.00	100.000	212.03
21.800	0.10	1.05	1.26	0.10	0.00	100.000	212.03
21.850	0.10	1.05	1.25	0.10	0.00	100.000	212.03
21.900	0.10	1.04	1.24	0.10	0.00	99.000	212.03
21.950	0.10	1.04	1.24	0.10	0.00	99.000	212.03
22.000	0.10	1.03	1.23	0.10	0.00	98.000	212.03
22.050	0.10	1.02	1.22	0.10	0.00	98.000	212.03
22.100	0.10	1.02	1.22	0.10	0.00	97.000	212.03
22.150	0.10	1.01	1.21	0.10	0.00	97.000	212.03
22.200	0.10	1.01	1.21	0.10	0.00	96.000	212.03
22.250	0.10	1.00	1.20	0.10	0.00	96.000	212.03

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1C (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
22.300	0.09	1.00	1.19	0.10	0.00	95.000	212.03
22.350	0.09	0.99	1.19	0.10	0.00	94.000	212.03
22.400	0.09	0.99	1.18	0.10	0.00	94.000	212.03
22.450	0.09	0.98	1.17	0.10	0.00	94.000	212.03
22.500	0.09	0.98	1.17	0.10	0.00	93.000	212.03
22.550	0.09	0.97	1.16	0.09	0.00	93.000	212.03
22.600	0.09	0.97	1.16	0.09	0.00	92.000	212.03
22.650	0.09	0.96	1.15	0.09	0.00	92.000	212.03
22.700	0.09	0.96	1.14	0.09	0.00	91.000	212.03
22.750	0.09	0.95	1.14	0.09	0.00	91.000	212.03
22.800	0.09	0.95	1.13	0.09	0.00	90.000	212.03
22.850	0.09	0.94	1.13	0.09	0.00	90.000	212.03
22.900	0.09	0.94	1.12	0.09	0.00	89.000	212.03
22.950	0.09	0.93	1.11	0.09	0.00	89.000	212.03
23.000	0.09	0.93	1.11	0.09	0.00	88.000	212.03
23.050	0.09	0.92	1.10	0.09	0.00	88.000	212.03
23.100	0.09	0.92	1.09	0.09	0.00	87.000	212.03
23.150	0.09	0.91	1.09	0.09	0.00	87.000	212.03
23.200	0.09	0.90	1.08	0.09	0.00	86.000	212.03
23.250	0.09	0.90	1.08	0.09	0.00	86.000	212.03
23.300	0.08	0.89	1.07	0.09	0.00	85.000	212.03
23.350	0.08	0.89	1.06	0.09	0.00	85.000	212.03
23.400	0.08	0.88	1.06	0.09	0.00	84.000	212.03
23.450	0.08	0.88	1.05	0.09	0.00	84.000	212.03
23.500	0.08	0.87	1.05	0.09	0.00	83.000	212.03
23.550	0.08	0.87	1.04	0.08	0.00	83.000	212.03
23.600	0.08	0.86	1.03	0.08	0.00	82.000	212.03
23.650	0.08	0.86	1.03	0.08	0.00	82.000	212.03
23.700	0.08	0.85	1.02	0.08	0.00	81.000	212.03
23.750	0.08	0.85	1.01	0.08	0.00	81.000	212.03
23.800	0.08	0.84	1.01	0.08	0.00	80.000	212.03
23.850	0.08	0.84	1.00	0.08	0.00	80.000	212.03
23.900	0.08	0.83	0.99	0.08	0.00	79.000	212.03
23.950	0.08	0.83	0.99	0.08	0.00	79.000	212.03
24.000	0.08	0.82	0.98	0.08	0.00	78.000	212.03

Subsection: Pond Inflow Summary Return Event: 1 years
Label: IB-1C (IN) Storm Event: 1 year
Scenario: Post-Development 1 year

Summary for Hydrograph Addition at 'IB-1C'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-1C

Node Inflows

Proposed Hydrologic Calculations Report

Subsection: Pond Inflow Summary
Label: IB-1C (IN)
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA-1C	6,887.372	12.100	1.94
Flow (In)	IB-1C	6,887.372	12.100	1.94

Subsection: Pond Inflow Summary
Label: IB-1C (IN)
Scenario: Post-Development 2 year

Return Event: 2 years
Storm Event: 2 year

Summary for Hydrograph Addition at 'IB-1C'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-1C

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA-1C	8,903.119	12.100	2.47
Flow (In)	IB-1C	8,903.119	12.100	2.47

Subsection: Pond Inflow Summary
Label: IB-1C (IN)
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Summary for Hydrograph Addition at 'IB-1C'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-1C

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA-1C	14,667.838	12.100	3.95
Flow (In)	IB-1C	14,667.838	12.100	3.95

Subsection: Pond Inflow Summary
Label: IB-1C (IN)
Scenario: Post-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Summary for Hydrograph Addition at 'IB-1C'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-1C

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA-1C	19,251.202	12.100	5.09

Proposed Hydrologic Calculations Report

Subsection: Pond Inflow Summary
Label: IB-1C (IN)
Scenario: Post-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (In)	IB-1C	19,251.202	12.100	5.09

Subsection: Pond Inflow Summary
Label: IB-1C (IN)
Scenario: Post-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Summary for Hydrograph Addition at 'IB-1C'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-1C

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA-1C	28,558.285	12.100	7.37
Flow (In)	IB-1C	28,558.285	12.100	7.37

Subsection: Elevation-Volume-Flow Table (Pond)
Label: IB-1D
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.96 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	214.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
214.00	0.00	0.000	0.135	0.00	0.00	0.00
214.50	0.00	3,046.965	0.145	0.96	0.96	34.82
215.00	0.00	6,308.738	0.155	0.96	0.96	71.06
215.50	0.00	9,792.636	0.165	0.96	0.96	109.77
215.80	0.00	11,992.639	0.172	0.96	0.96	134.21
216.00	0.40	13,505.977	0.176	0.96	1.36	151.43
216.50	2.64	17,453.283	0.187	0.96	3.60	197.52

Proposed Hydrologic Calculations Report

Subsection: Elevation-Volume-Flow Table (Pond) — Return Event: 1 years
Label: IB-1D — Storm Event: 1 year
Scenario: Post-Development 1 year

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
217.00	5.91	21,638.857	0.198	0.96	6.87	247.30
217.50	9.83	26,069.680	0.209	0.96	10.79	300.46
218.00	13.34	30,752.737	0.221	0.96	14.30	355.99
218.50	16.31	35,691.130	0.233	0.96	17.27	413.84
219.00	18.79	40,887.695	0.245	0.96	19.75	474.06
219.50	20.95	46,349.011	0.257	0.96	21.91	536.89
220.00	22.29	52,081.654	0.270	0.96	23.25	601.94

Subsection: Elevation-Volume-Flow Table (Pond) — Return Event: 2 years
Label: IB-1D — Storm Event: 2 year
Scenario: Post-Development 2 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.96 ft^3/s

Initial Conditions	
Elevation (Water Surface, Initial)	214.00 ft
Volume (Initial)	0.000 ft^3
Flow (Initial Outlet)	0.00 ft^3/s
Flow (Initial Infiltration)	0.00 ft^3/s
Flow (Initial, Total)	0.00 ft^3/s
Time Increment	0.050 hours

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
214.00	0.00	0.000	0.135	0.00	0.00	0.00
214.50	0.00	3,046.965	0.145	0.96	0.96	34.82
215.00	0.00	6,308.738	0.155	0.96	0.96	71.06
215.50	0.00	9,792.636	0.165	0.96	0.96	109.77
215.80	0.00	11,992.639	0.172	0.96	0.96	134.21
216.00	0.40	13,505.977	0.176	0.96	1.36	151.43
216.50	2.64	17,453.283	0.187	0.96	3.60	197.52
217.00	5.91	21,638.857	0.198	0.96	6.87	247.30
217.50	9.83	26,069.680	0.209	0.96	10.79	300.46
218.00	13.34	30,752.737	0.221	0.96	14.30	355.99
218.50	16.31	35,691.130	0.233	0.96	17.27	413.84
219.00	18.79	40,887.695	0.245	0.96	19.75	474.06
219.50	20.95	46,349.011	0.257	0.96	21.91	536.89
220.00	22.29	52,081.654	0.270	0.96	23.25	601.94

Proposed Hydrologic Calculations Report

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 10 years
Label: IB-1D Storm Event: 10 year
Scenario: Post-Development 10 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.96 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	214.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
214.00	0.00	0.000	0.135	0.00	0.00	0.00
214.50	0.00	3,046.965	0.145	0.96	0.96	34.82
215.00	0.00	6,308.738	0.155	0.96	0.96	71.06
215.50	0.00	9,792.636	0.165	0.96	0.96	109.77
215.80	0.00	11,992.639	0.172	0.96	0.96	134.21
216.00	0.40	13,505.977	0.176	0.96	1.36	151.43
216.50	2.64	17,453.283	0.187	0.96	3.60	197.52
217.00	5.91	21,638.857	0.198	0.96	6.87	247.30
217.50	9.83	26,069.680	0.209	0.96	10.79	300.46
218.00	13.34	30,752.737	0.221	0.96	14.30	355.99
218.50	16.31	35,691.130	0.233	0.96	17.27	413.84
219.00	18.79	40,887.695	0.245	0.96	19.75	474.06
219.50	20.95	46,349.011	0.257	0.96	21.91	536.89
220.00	22.29	52,081.654	0.270	0.96	23.25	601.94

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 25 years
Label: IB-1D Storm Event: 25 year
Scenario: Post-Development 25 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.96 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	214.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s

Proposed Hydrologic Calculations Report

Subsection: Elevation-Volume-Flow Table (Pond)
Label: IB-1D
Scenario: Post-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Initial Conditions	
Time Increment	0.050 hours

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
214.00	0.00	0.000	0.135	0.00	0.00	0.00
214.50	0.00	3,046.965	0.145	0.96	0.96	34.82
215.00	0.00	6,308.738	0.155	0.96	0.96	71.06
215.50	0.00	9,792.636	0.165	0.96	0.96	109.77
215.80	0.00	11,992.639	0.172	0.96	0.96	134.21
216.00	0.40	13,505.977	0.176	0.96	1.36	151.43
216.50	2.64	17,453.283	0.187	0.96	3.60	197.52
217.00	5.91	21,638.857	0.198	0.96	6.87	247.30
217.50	9.83	26,069.680	0.209	0.96	10.79	300.46
218.00	13.34	30,752.737	0.221	0.96	14.30	355.99
218.50	16.31	35,691.130	0.233	0.96	17.27	413.84
219.00	18.79	40,887.695	0.245	0.96	19.75	474.06
219.50	20.95	46,349.011	0.257	0.96	21.91	536.89
220.00	22.29	52,081.654	0.270	0.96	23.25	601.94

Subsection: Elevation-Volume-Flow Table (Pond)
Label: IB-1D
Scenario: Post-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.96 ft^3/s

Initial Conditions	
Elevation (Water Surface, Initial)	214.00 ft
Volume (Initial)	0.000 ft^3
Flow (Initial Outlet)	0.00 ft^3/s
Flow (Initial Infiltration)	0.00 ft^3/s
Flow (Initial, Total)	0.00 ft^3/s
Time Increment	0.050 hours

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
214.00	0.00	0.000	0.135	0.00	0.00	0.00
214.50	0.00	3,046.965	0.145	0.96	0.96	34.82
215.00	0.00	6,308.738	0.155	0.96	0.96	71.06
215.50	0.00	9,792.636	0.165	0.96	0.96	109.77
215.80	0.00	11,992.639	0.172	0.96	0.96	134.21
216.00	0.40	13,505.977	0.176	0.96	1.36	151.43

Proposed Hydrologic Calculations Report

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 100 years
Label: IB-1D Storm Event: 100 year
Scenario: Post-Development 100 year

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
216.50	2.64	17,453.283	0.187	0.96	3.60	197.52
217.00	5.91	21,638.857	0.198	0.96	6.87	247.30
217.50	9.83	26,069.680	0.209	0.96	10.79	300.46
218.00	13.34	30,752.737	0.221	0.96	14.30	355.99
218.50	16.31	35,691.130	0.233	0.96	17.27	413.84
219.00	18.79	40,887.695	0.245	0.96	19.75	474.06
219.50	20.95	46,349.011	0.257	0.96	21.91	536.89
220.00	22.29	52,081.654	0.270	0.96	23.25	601.94

Subsection: Level Pool Pond Routing Summary Return Event: 1 years
Label: IB-1D (IN) Storm Event: 1 year
Scenario: Post-Development 1 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.96 ft^3/s

Initial Conditions	
Elevation (Water Surface, Initial)	214.00 ft
Volume (Initial)	0.000 ft^3
Flow (Initial Outlet)	0.00 ft^3/s
Flow (Initial Infiltration)	0.00 ft^3/s
Flow (Initial, Total)	0.00 ft^3/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	8.01 ft^3/s	Time to Peak (Flow, In)	12.100 hours
Infiltration (Peak)	0.96 ft^3/s	Time to Peak (Infiltration)	11.950 hours
Flow (Peak Outlet)	0.00 ft^3/s	Time to Peak (Flow, Outlet)	0.000 hours

Elevation (Water Surface, Peak)	215.73 ft
Volume (Peak)	11,441.328 ft^3

Mass Balance (ft^3)	
Volume (Initial)	0.000 ft^3
Volume (Total Inflow)	27,862.000 ft^3
Volume (Total Infiltration)	27,501.000 ft^3
Volume (Total Outlet Outflow)	0.000 ft^3
Volume (Retained)	349.000 ft^3
Volume (Unrouted)	-11.000 ft^3

Subsection: Level Pool Pond Routing Summary — Return Event: 1 years
Label: IB-1D (IN) — Storm Event: 1 year
Scenario: Post-Development 1 year

Mass Balance (ft³)	
Error (Mass Balance)	0.0 %

Subsection: Level Pool Pond Routing Summary — Return Event: 2 years
Label: IB-1D (IN) — Storm Event: 2 year
Scenario: Post-Development 2 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.96 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	214.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	10.69 ft³/s	Time to Peak (Flow, In)	12.100 hours
Infiltration (Peak)	0.96 ft³/s	Time to Peak (Infiltration)	11.850 hours
Flow (Peak Outlet)	1.23 ft³/s	Time to Peak (Flow, Outlet)	12.550 hours

Elevation (Water Surface, Peak)	216.19 ft
Volume (Peak)	14,948.633 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	37,428.000 ft³
Volume (Total Infiltration)	32,737.000 ft³
Volume (Total Outlet Outflow)	4,230.000 ft³
Volume (Retained)	446.000 ft³
Volume (Unrouted)	-13.000 ft³
Error (Mass Balance)	0.0 %

Subsection: Level Pool Pond Routing Summary — Return Event: 10 years
Label: IB-1D (IN) — Storm Event: 10 year
Scenario: Post-Development 10 year

Infiltration	
Infiltration Method (Computed)	Constant

Proposed Hydrologic Calculations Report

Subsection: Level Pool Pond Routing Summary — Return Event: 10 years
Label: IB-1D (IN) — Storm Event: 10 year
Scenario: Post-Development 10 year

Infiltration	
Infiltration Rate (Constant)	0.96 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	214.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	18.36 ft³/s	Time to Peak (Flow, In)	12.100 hours
Infiltration (Peak)	0.96 ft³/s	Time to Peak (Infiltration)	11.450 hours
Flow (Peak Outlet)	6.40 ft³/s	Time to Peak (Flow, Outlet)	12.350 hours

Elevation (Water Surface, Peak)	217.06 ft
Volume (Peak)	22,177.241 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	65,635.000 ft³
Volume (Total Infiltration)	41,983.000 ft³
Volume (Total Outlet Outflow)	22,895.000 ft³
Volume (Retained)	737.000 ft³
Volume (Unrouted)	-20.000 ft³
Error (Mass Balance)	0.0 %

Subsection: Level Pool Pond Routing Summary — Return Event: 25 years
Label: IB-1D (IN) — Storm Event: 25 year
Scenario: Post-Development 25 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.96 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	214.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s

Proposed Hydrologic Calculations Report

Subsection: Level Pool Pond Routing Summary — Return Event: 25 years
Label: IB-1D (IN) — Storm Event: 25 year
Scenario: Post-Development 25 year

Initial Conditions	
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	24.37 ft^3/s	Time to Peak (Flow, In)	12.100 hours
Infiltration (Peak)	0.96 ft^3/s	Time to Peak (Infiltration)	10.900 hours
Flow (Peak Outlet)	10.95 ft^3/s	Time to Peak (Flow, Outlet)	12.250 hours

Elevation (Water Surface, Peak)	217.66 ft
Volume (Peak)	27,528.619 ft^3

Mass Balance (ft^3)	
Volume (Initial)	0.000 ft^3
Volume (Total Inflow)	88,555.000 ft^3
Volume (Total Infiltration)	47,856.000 ft^3
Volume (Total Outlet Outflow)	39,630.000 ft^3
Volume (Retained)	1,044.000 ft^3
Volume (Unrouted)	-24.000 ft^3
Error (Mass Balance)	0.0 %

Subsection: Level Pool Pond Routing Summary — Return Event: 100 years
Label: IB-1D (IN) — Storm Event: 100 year
Scenario: Post-Development 100 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.96 ft^3/s

Initial Conditions	
Elevation (Water Surface, Initial)	214.00 ft
Volume (Initial)	0.000 ft^3
Flow (Initial Outlet)	0.00 ft^3/s
Flow (Initial Infiltration)	0.00 ft^3/s
Flow (Initial, Total)	0.00 ft^3/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	36.37 ft^3/s	Time to Peak (Flow, In)	12.100 hours
Infiltration (Peak)	0.96 ft^3/s	Time to Peak (Infiltration)	9.750 hours
Flow (Peak Outlet)	17.89 ft^3/s	Time to Peak (Flow, Outlet)	12.250 hours

Elevation (Water Surface, Peak)	218.82 ft

Proposed Hydrologic Calculations Report

Subsection: Level Pool Pond Routing Summary
Label: IB-1D (IN)
Scenario: Post-Development 100 year

Return Event: 100 years
Storm Event: 100 year

Volume (Peak)	38,975.375 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	135,732.000 ft³
Volume (Total Infiltration)	55,544.000 ft³
Volume (Total Outlet Outflow)	77,027.000 ft³
Volume (Retained)	3,158.000 ft³
Volume (Unrouted)	-4.000 ft³
Error (Mass Balance)	0.0 %

Subsection: Pond Routing Calculations (Total Out)
Label: IB-1D (OUT)
Scenario: Post-Development 1 year

Return Event: 1 years
Storm Event: 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 1 years
Label: IB-1D (OUT) Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
1.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
3.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 1 years
Label: IB-1D (OUT) Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
6.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
8.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
8.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
8.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
8.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
8.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
8.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 1 years
Label: IB-1D (OUT) Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
8.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
8.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
8.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
8.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
8.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
8.550	0.00	0.01	0.01	0.00	0.00	1.000	214.00
8.600	0.01	0.02	0.02	0.00	0.00	2.000	214.00
8.650	0.01	0.04	0.04	0.00	0.00	3.000	214.00
8.700	0.01	0.06	0.06	0.00	0.00	5.000	214.00
8.750	0.02	0.08	0.09	0.00	0.00	7.000	214.00
8.800	0.02	0.11	0.11	0.00	0.00	10.000	214.00
8.850	0.02	0.14	0.15	0.00	0.00	13.000	214.00
8.900	0.02	0.18	0.19	0.01	0.00	16.000	214.00
8.950	0.03	0.22	0.23	0.01	0.00	19.000	214.00
9.000	0.03	0.26	0.28	0.01	0.00	23.000	214.00
9.050	0.04	0.31	0.33	0.01	0.00	28.000	214.00
9.100	0.04	0.36	0.39	0.01	0.00	33.000	214.01
9.150	0.04	0.42	0.45	0.01	0.00	38.000	214.01
9.200	0.05	0.48	0.51	0.01	0.00	43.000	214.01
9.250	0.05	0.55	0.58	0.02	0.00	49.000	214.01
9.300	0.05	0.62	0.65	0.02	0.00	55.000	214.01
9.350	0.06	0.69	0.73	0.02	0.00	62.000	214.01
9.400	0.06	0.77	0.81	0.02	0.00	69.000	214.01
9.450	0.07	0.85	0.90	0.02	0.00	76.000	214.01
9.500	0.07	0.94	0.99	0.03	0.00	84.000	214.01
9.550	0.08	1.03	1.09	0.03	0.00	92.000	214.02
9.600	0.08	1.12	1.19	0.03	0.00	100.000	214.02
9.650	0.09	1.22	1.29	0.04	0.00	109.000	214.02
9.700	0.09	1.32	1.40	0.04	0.00	118.000	214.02
9.750	0.10	1.43	1.51	0.04	0.00	128.000	214.02
9.800	0.10	1.54	1.63	0.04	0.00	138.000	214.02
9.850	0.11	1.65	1.75	0.05	0.00	148.000	214.03
9.900	0.11	1.77	1.87	0.05	0.00	158.000	214.03
9.950	0.12	1.89	2.00	0.06	0.00	169.000	214.03
10.000	0.12	2.02	2.13	0.06	0.00	181.000	214.03
10.050	0.13	2.15	2.27	0.06	0.00	192.000	214.03
10.100	0.14	2.28	2.42	0.07	0.00	205.000	214.03
10.150	0.15	2.42	2.57	0.07	0.00	217.000	214.04
10.200	0.15	2.57	2.72	0.08	0.00	231.000	214.04
10.250	0.16	2.73	2.89	0.08	0.00	245.000	214.04
10.300	0.17	2.89	3.06	0.08	0.00	260.000	214.04
10.350	0.18	3.07	3.24	0.09	0.00	275.000	214.05
10.400	0.19	3.25	3.43	0.09	0.00	291.000	214.05
10.450	0.20	3.43	3.63	0.10	0.00	308.000	214.05
10.500	0.21	3.63	3.84	0.11	0.00	326.000	214.06
10.550	0.22	3.83	4.06	0.11	0.00	344.000	214.06

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 1 years
Label: IB-1D (OUT) Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
10.600	0.23	4.04	4.28	0.12	0.00	363.000	214.06
10.650	0.24	4.26	4.51	0.12	0.00	383.000	214.06
10.700	0.25	4.49	4.75	0.13	0.00	404.000	214.07
10.750	0.26	4.73	5.01	0.14	0.00	425.000	214.07
10.800	0.27	4.97	5.27	0.15	0.00	447.000	214.08
10.850	0.29	5.23	5.53	0.15	0.00	470.000	214.08
10.900	0.30	5.49	5.81	0.16	0.00	494.000	214.08
10.950	0.31	5.76	6.10	0.17	0.00	518.000	214.09
11.000	0.32	6.04	6.39	0.18	0.00	544.000	214.09
11.050	0.34	6.33	6.70	0.18	0.00	570.000	214.10
11.100	0.36	6.65	7.04	0.19	0.00	599.000	214.10
11.150	0.39	6.99	7.40	0.20	0.00	630.000	214.11
11.200	0.42	7.38	7.81	0.22	0.00	665.000	214.11
11.250	0.46	7.80	8.25	0.23	0.00	703.000	214.12
11.300	0.49	8.26	8.74	0.24	0.00	745.000	214.13
11.350	0.53	8.77	9.28	0.26	0.00	791.000	214.13
11.400	0.56	9.31	9.86	0.27	0.00	841.000	214.14
11.450	0.60	9.90	10.48	0.29	0.00	895.000	214.15
11.500	0.64	10.53	11.15	0.31	0.00	953.000	214.16
11.550	0.77	11.29	11.95	0.33	0.00	1,022.000	214.17
11.600	0.94	12.28	13.00	0.36	0.00	1,113.000	214.19
11.650	1.21	13.63	14.43	0.40	0.00	1,237.000	214.21
11.700	1.53	15.47	16.37	0.45	0.00	1,407.000	214.24
11.750	1.89	17.85	18.89	0.52	0.00	1,627.000	214.27
11.800	2.28	20.81	22.02	0.61	0.00	1,903.000	214.32
11.850	2.71	24.37	25.79	0.71	0.00	2,237.000	214.37
11.900	3.17	28.58	30.25	0.83	0.00	2,636.000	214.43
11.950	4.70	34.53	36.45	0.96	0.00	3,190.000	214.52
12.000	6.68	44.00	45.92	0.96	0.00	4,023.000	214.65
12.050	7.51	56.27	58.19	0.96	0.00	5,125.000	214.82
12.100	8.01	69.86	71.78	0.96	0.00	6,372.000	215.01
12.150	6.79	82.74	84.66	0.96	0.00	7,507.000	215.18
12.200	4.99	92.59	94.51	0.96	0.00	8,393.000	215.30
12.250	4.25	99.91	101.83	0.96	0.00	9,060.000	215.40
12.300	3.76	105.99	107.91	0.96	0.00	9,621.000	215.48
12.350	3.31	111.15	113.07	0.96	0.00	10,085.000	215.54
12.400	2.87	115.41	117.33	0.96	0.00	10,464.000	215.59
12.450	2.41	118.77	120.69	0.96	0.00	10,765.000	215.63
12.500	1.94	121.20	123.12	0.96	0.00	10,984.000	215.66
12.550	1.63	122.86	124.78	0.96	0.00	11,134.000	215.68
12.600	1.36	123.93	125.85	0.96	0.00	11,230.000	215.70
12.650	1.25	124.62	126.54	0.96	0.00	11,293.000	215.71
12.700	1.19	125.15	127.07	0.96	0.00	11,341.000	215.71
12.750	1.14	125.57	127.49	0.96	0.00	11,379.000	215.72
12.800	1.09	125.88	127.80	0.96	0.00	11,408.000	215.72
12.850	1.05	126.11	128.03	0.96	0.00	11,428.000	215.72

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
12.900	1.00	126.23	128.15	0.96	0.00	11,439.000	215.73
12.950	0.95	126.25	128.17	0.96	0.00	11,441.000	215.73
13.000	0.90	126.18	128.10	0.96	0.00	11,434.000	215.72
13.050	0.86	126.01	127.93	0.96	0.00	11,420.000	215.72
13.100	0.83	125.78	127.70	0.96	0.00	11,399.000	215.72
13.150	0.81	125.50	127.42	0.96	0.00	11,373.000	215.72
13.200	0.80	125.19	127.11	0.96	0.00	11,345.000	215.71
13.250	0.79	124.86	126.78	0.96	0.00	11,315.000	215.71
13.300	0.77	124.50	126.42	0.96	0.00	11,282.000	215.70
13.350	0.76	124.11	126.03	0.96	0.00	11,247.000	215.70
13.400	0.75	123.70	125.62	0.96	0.00	11,210.000	215.69
13.450	0.74	123.26	125.18	0.96	0.00	11,170.000	215.69
13.500	0.72	122.80	124.72	0.96	0.00	11,129.000	215.68
13.550	0.71	122.32	124.24	0.96	0.00	11,085.000	215.68
13.600	0.70	121.80	123.72	0.96	0.00	11,038.000	215.67
13.650	0.68	121.26	123.18	0.96	0.00	10,990.000	215.66
13.700	0.67	120.70	122.62	0.96	0.00	10,939.000	215.66
13.750	0.66	120.11	122.03	0.96	0.00	10,886.000	215.65
13.800	0.65	119.49	121.41	0.96	0.00	10,830.000	215.64
13.850	0.63	118.85	120.77	0.96	0.00	10,773.000	215.64
13.900	0.62	118.18	120.10	0.96	0.00	10,712.000	215.63
13.950	0.61	117.48	119.40	0.96	0.00	10,650.000	215.62
14.000	0.59	116.76	118.68	0.96	0.00	10,585.000	215.61
14.050	0.58	116.01	117.93	0.96	0.00	10,518.000	215.60
14.100	0.57	115.25	117.17	0.96	0.00	10,450.000	215.59
14.150	0.56	114.46	116.38	0.96	0.00	10,380.000	215.58
14.200	0.56	113.66	115.58	0.96	0.00	10,309.000	215.57
14.250	0.55	112.85	114.77	0.96	0.00	10,237.000	215.56
14.300	0.55	112.03	113.95	0.96	0.00	10,163.000	215.55
14.350	0.54	111.20	113.12	0.96	0.00	10,089.000	215.54
14.400	0.53	110.35	112.27	0.96	0.00	10,014.000	215.53
14.450	0.53	109.49	111.41	0.96	0.00	9,938.000	215.52
14.500	0.52	108.62	110.54	0.96	0.00	9,861.000	215.51
14.550	0.51	107.73	109.65	0.96	0.00	9,782.000	215.50
14.600	0.51	106.83	108.75	0.96	0.00	9,698.000	215.49
14.650	0.50	105.92	107.84	0.96	0.00	9,614.000	215.48
14.700	0.49	105.00	106.92	0.96	0.00	9,528.000	215.46
14.750	0.49	104.06	105.98	0.96	0.00	9,442.000	215.45
14.800	0.48	103.11	105.03	0.96	0.00	9,354.000	215.44
14.850	0.48	102.15	104.07	0.96	0.00	9,266.000	215.43
14.900	0.47	101.18	103.10	0.96	0.00	9,176.000	215.41
14.950	0.46	100.19	102.11	0.96	0.00	9,085.000	215.40
15.000	0.46	99.19	101.11	0.96	0.00	8,993.000	215.39
15.050	0.45	98.17	100.09	0.96	0.00	8,901.000	215.38
15.100	0.44	97.15	99.07	0.96	0.00	8,807.000	215.36
15.150	0.44	96.10	98.02	0.96	0.00	8,712.000	215.35

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 1 years
Label: IB-1D (OUT) Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
15.200	0.43	95.05	96.97	0.96	0.00	8,616.000	215.33
15.250	0.42	93.99	95.91	0.96	0.00	8,519.000	215.32
15.300	0.42	92.91	94.83	0.96	0.00	8,421.000	215.31
15.350	0.41	91.81	93.73	0.96	0.00	8,322.000	215.29
15.400	0.40	90.71	92.63	0.96	0.00	8,222.000	215.28
15.450	0.40	89.59	91.51	0.96	0.00	8,121.000	215.26
15.500	0.39	88.46	90.38	0.96	0.00	8,019.000	215.25
15.550	0.38	87.31	89.23	0.96	0.00	7,916.000	215.23
15.600	0.38	86.15	88.07	0.96	0.00	7,812.000	215.22
15.650	0.37	84.98	86.90	0.96	0.00	7,707.000	215.20
15.700	0.36	83.79	85.71	0.96	0.00	7,601.000	215.19
15.750	0.36	82.59	84.51	0.96	0.00	7,494.000	215.17
15.800	0.35	81.38	83.30	0.96	0.00	7,386.000	215.16
15.850	0.34	80.15	82.07	0.96	0.00	7,277.000	215.14
15.900	0.34	78.91	80.83	0.96	0.00	7,167.000	215.13
15.950	0.33	77.66	79.58	0.96	0.00	7,056.000	215.11
16.000	0.32	76.39	78.31	0.96	0.00	6,945.000	215.09
16.050	0.32	75.11	77.03	0.96	0.00	6,832.000	215.08
16.100	0.31	73.83	75.75	0.96	0.00	6,719.000	215.06
16.150	0.31	72.53	74.45	0.96	0.00	6,605.000	215.04
16.200	0.31	71.22	73.14	0.96	0.00	6,491.000	215.03
16.250	0.30	69.91	71.83	0.96	0.00	6,376.000	215.01
16.300	0.30	68.60	70.52	0.96	0.00	6,259.000	214.99
16.350	0.30	67.28	69.20	0.96	0.00	6,136.000	214.97
16.400	0.29	65.95	67.87	0.96	0.00	6,013.000	214.96
16.450	0.29	64.62	66.54	0.96	0.00	5,890.000	214.94
16.500	0.29	63.28	65.20	0.96	0.00	5,767.000	214.92
16.550	0.29	61.93	63.85	0.96	0.00	5,643.000	214.90
16.600	0.28	60.58	62.50	0.96	0.00	5,519.000	214.88
16.650	0.28	59.23	61.15	0.96	0.00	5,395.000	214.86
16.700	0.28	57.86	59.78	0.96	0.00	5,271.000	214.84
16.750	0.27	56.50	58.42	0.96	0.00	5,146.000	214.83
16.800	0.27	55.12	57.04	0.96	0.00	5,022.000	214.81
16.850	0.27	53.74	55.66	0.96	0.00	4,896.000	214.79
16.900	0.27	52.36	54.28	0.96	0.00	4,771.000	214.77
16.950	0.26	50.97	52.89	0.96	0.00	4,646.000	214.75
17.000	0.26	49.57	51.49	0.96	0.00	4,520.000	214.73
17.050	0.26	48.16	50.08	0.96	0.00	4,395.000	214.71
17.100	0.25	46.76	48.68	0.96	0.00	4,269.000	214.69
17.150	0.25	45.34	47.26	0.96	0.00	4,142.000	214.67
17.200	0.25	43.92	45.84	0.96	0.00	4,016.000	214.65
17.250	0.24	42.49	44.41	0.96	0.00	3,889.000	214.63
17.300	0.24	41.06	42.98	0.96	0.00	3,763.000	214.61
17.350	0.24	39.62	41.54	0.96	0.00	3,636.000	214.59
17.400	0.24	38.18	40.10	0.96	0.00	3,509.000	214.57
17.450	0.23	36.72	38.64	0.96	0.00	3,381.000	214.55

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 1 years
Label: IB-1D (OUT) Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
17.500	0.23	35.27	37.19	0.96	0.00	3,254.000	214.53
17.550	0.23	33.81	35.73	0.96	0.00	3,126.000	214.51
17.600	0.22	32.37	34.26	0.94	0.00	2,996.000	214.49
17.650	0.22	31.00	32.81	0.90	0.00	2,866.000	214.47
17.700	0.22	29.71	31.44	0.87	0.00	2,743.000	214.45
17.750	0.22	28.48	30.14	0.83	0.00	2,626.000	214.43
17.800	0.21	27.31	28.91	0.80	0.00	2,515.000	214.42
17.850	0.21	26.20	27.73	0.76	0.00	2,410.000	214.40
17.900	0.21	25.15	26.62	0.73	0.00	2,311.000	214.38
17.950	0.20	24.15	25.56	0.70	0.00	2,216.000	214.37
18.000	0.20	23.20	24.56	0.68	0.00	2,127.000	214.35
18.050	0.20	22.30	23.60	0.65	0.00	2,042.000	214.34
18.100	0.20	21.44	22.69	0.63	0.00	1,962.000	214.33
18.150	0.19	20.63	21.83	0.60	0.00	1,886.000	214.31
18.200	0.19	19.86	21.01	0.58	0.00	1,814.000	214.30
18.250	0.19	19.13	20.24	0.56	0.00	1,746.000	214.29
18.300	0.19	18.43	19.51	0.54	0.00	1,682.000	214.28
18.350	0.19	17.78	18.82	0.52	0.00	1,621.000	214.27
18.400	0.19	17.16	18.16	0.50	0.00	1,563.000	214.26
18.450	0.19	16.57	17.54	0.48	0.00	1,509.000	214.25
18.500	0.19	16.02	16.95	0.47	0.00	1,457.000	214.24
18.550	0.19	15.49	16.39	0.45	0.00	1,408.000	214.24
18.600	0.19	14.99	15.86	0.44	0.00	1,362.000	214.23
18.650	0.19	14.51	15.36	0.42	0.00	1,318.000	214.22
18.700	0.18	14.06	14.89	0.41	0.00	1,277.000	214.21
18.750	0.18	13.64	14.43	0.40	0.00	1,238.000	214.21
18.800	0.18	13.23	14.01	0.39	0.00	1,200.000	214.20
18.850	0.18	12.85	13.60	0.37	0.00	1,165.000	214.20
18.900	0.18	12.48	13.21	0.36	0.00	1,132.000	214.19
18.950	0.18	12.14	12.85	0.35	0.00	1,100.000	214.18
19.000	0.18	11.81	12.50	0.34	0.00	1,070.000	214.18
19.050	0.18	11.50	12.17	0.34	0.00	1,041.000	214.17
19.100	0.18	11.20	11.85	0.33	0.00	1,014.000	214.17
19.150	0.18	10.92	11.56	0.32	0.00	988.000	214.17
19.200	0.18	10.65	11.27	0.31	0.00	963.000	214.16
19.250	0.18	10.40	11.00	0.30	0.00	940.000	214.16
19.300	0.17	10.15	10.75	0.30	0.00	918.000	214.15
19.350	0.17	9.92	10.50	0.29	0.00	897.000	214.15
19.400	0.17	9.70	10.27	0.28	0.00	877.000	214.15
19.450	0.17	9.49	10.05	0.28	0.00	858.000	214.14
19.500	0.17	9.29	9.84	0.27	0.00	839.000	214.14
19.550	0.17	9.10	9.63	0.27	0.00	822.000	214.14
19.600	0.17	8.92	9.44	0.26	0.00	806.000	214.14
19.650	0.17	8.75	9.26	0.26	0.00	790.000	214.13
19.700	0.17	8.58	9.08	0.25	0.00	775.000	214.13
19.750	0.17	8.43	8.92	0.25	0.00	760.000	214.13

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 1 years
Label: IB-1D (OUT) Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
19.800	0.17	8.27	8.76	0.24	0.00	747.000	214.13
19.850	0.16	8.13	8.61	0.24	0.00	734.000	214.12
19.900	0.16	7.99	8.46	0.23	0.00	721.000	214.12
19.950	0.16	7.86	8.32	0.23	0.00	709.000	214.12
20.000	0.16	7.73	8.19	0.23	0.00	697.000	214.12
20.050	0.16	7.61	8.06	0.22	0.00	687.000	214.12
20.100	0.16	7.50	7.93	0.22	0.00	676.000	214.11
20.150	0.16	7.39	7.82	0.22	0.00	666.000	214.11
20.200	0.16	7.28	7.71	0.21	0.00	656.000	214.11
20.250	0.16	7.18	7.60	0.21	0.00	647.000	214.11
20.300	0.16	7.08	7.50	0.21	0.00	638.000	214.11
20.350	0.16	6.99	7.40	0.20	0.00	630.000	214.11
20.400	0.16	6.90	7.30	0.20	0.00	622.000	214.10
20.450	0.16	6.81	7.21	0.20	0.00	614.000	214.10
20.500	0.16	6.73	7.13	0.20	0.00	607.000	214.10
20.550	0.15	6.65	7.04	0.19	0.00	599.000	214.10
20.600	0.15	6.58	6.96	0.19	0.00	593.000	214.10
20.650	0.15	6.51	6.89	0.19	0.00	586.000	214.10
20.700	0.15	6.44	6.81	0.19	0.00	580.000	214.10
20.750	0.15	6.37	6.74	0.19	0.00	573.000	214.10
20.800	0.15	6.30	6.67	0.18	0.00	567.000	214.10
20.850	0.15	6.24	6.60	0.18	0.00	562.000	214.09
20.900	0.15	6.18	6.54	0.18	0.00	556.000	214.09
20.950	0.15	6.12	6.48	0.18	0.00	551.000	214.09
21.000	0.15	6.06	6.42	0.18	0.00	546.000	214.09
21.050	0.15	6.01	6.36	0.18	0.00	541.000	214.09
21.100	0.15	5.96	6.31	0.17	0.00	536.000	214.09
21.150	0.15	5.91	6.25	0.17	0.00	532.000	214.09
21.200	0.15	5.86	6.20	0.17	0.00	527.000	214.09
21.250	0.15	5.81	6.15	0.17	0.00	523.000	214.09
21.300	0.14	5.76	6.10	0.17	0.00	518.000	214.09
21.350	0.14	5.72	6.05	0.17	0.00	514.000	214.09
21.400	0.14	5.67	6.00	0.17	0.00	510.000	214.09
21.450	0.14	5.63	5.96	0.16	0.00	506.000	214.09
21.500	0.14	5.59	5.91	0.16	0.00	503.000	214.08
21.550	0.14	5.54	5.87	0.16	0.00	499.000	214.08
21.600	0.14	5.50	5.83	0.16	0.00	495.000	214.08
21.650	0.14	5.47	5.78	0.16	0.00	492.000	214.08
21.700	0.14	5.43	5.74	0.16	0.00	488.000	214.08
21.750	0.14	5.39	5.70	0.16	0.00	485.000	214.08
21.800	0.14	5.35	5.67	0.16	0.00	482.000	214.08
21.850	0.14	5.32	5.63	0.16	0.00	478.000	214.08
21.900	0.14	5.28	5.59	0.15	0.00	475.000	214.08
21.950	0.14	5.25	5.56	0.15	0.00	472.000	214.08
22.000	0.13	5.22	5.52	0.15	0.00	469.000	214.08
22.050	0.13	5.18	5.48	0.15	0.00	466.000	214.08

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 1 years
Label: IB-1D (OUT) Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
22.100	0.13	5.15	5.45	0.15	0.00	463.000	214.08
22.150	0.13	5.12	5.42	0.15	0.00	460.000	214.08
22.200	0.13	5.09	5.38	0.15	0.00	457.000	214.08
22.250	0.13	5.05	5.35	0.15	0.00	454.000	214.08
22.300	0.13	5.02	5.32	0.15	0.00	452.000	214.08
22.350	0.13	4.99	5.28	0.15	0.00	449.000	214.08
22.400	0.13	4.96	5.25	0.14	0.00	446.000	214.08
22.450	0.13	4.93	5.22	0.14	0.00	443.000	214.07
22.500	0.13	4.90	5.19	0.14	0.00	441.000	214.07
22.550	0.13	4.87	5.16	0.14	0.00	438.000	214.07
22.600	0.13	4.85	5.13	0.14	0.00	436.000	214.07
22.650	0.13	4.82	5.10	0.14	0.00	433.000	214.07
22.700	0.13	4.79	5.07	0.14	0.00	431.000	214.07
22.750	0.12	4.76	5.04	0.14	0.00	428.000	214.07
22.800	0.12	4.73	5.01	0.14	0.00	426.000	214.07
22.850	0.12	4.71	4.98	0.14	0.00	423.000	214.07
22.900	0.12	4.68	4.95	0.14	0.00	421.000	214.07
22.950	0.12	4.65	4.92	0.14	0.00	418.000	214.07
23.000	0.12	4.63	4.90	0.13	0.00	416.000	214.07
23.050	0.12	4.60	4.87	0.13	0.00	413.000	214.07
23.100	0.12	4.57	4.84	0.13	0.00	411.000	214.07
23.150	0.12	4.54	4.81	0.13	0.00	408.000	214.07
23.200	0.12	4.52	4.78	0.13	0.00	406.000	214.07
23.250	0.12	4.49	4.76	0.13	0.00	404.000	214.07
23.300	0.12	4.47	4.73	0.13	0.00	401.000	214.07
23.350	0.12	4.44	4.70	0.13	0.00	399.000	214.07
23.400	0.12	4.42	4.67	0.13	0.00	397.000	214.07
23.450	0.12	4.39	4.65	0.13	0.00	395.000	214.07
23.500	0.11	4.37	4.62	0.13	0.00	392.000	214.07
23.550	0.11	4.34	4.59	0.13	0.00	390.000	214.07
23.600	0.11	4.32	4.57	0.13	0.00	388.000	214.07
23.650	0.11	4.29	4.54	0.13	0.00	385.000	214.07
23.700	0.11	4.27	4.51	0.12	0.00	383.000	214.06
23.750	0.11	4.24	4.49	0.12	0.00	381.000	214.06
23.800	0.11	4.22	4.46	0.12	0.00	379.000	214.06
23.850	0.11	4.19	4.44	0.12	0.00	377.000	214.06
23.900	0.11	4.17	4.41	0.12	0.00	374.000	214.06
23.950	0.11	4.14	4.38	0.12	0.00	372.000	214.06
24.000	0.11	4.12	4.36	0.12	0.00	370.000	214.06

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1D (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1D (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1D (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
2.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1D (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
4.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1D (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
6.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
7.750	0.00	0.01	0.01	0.00	0.00	1.000	214.00
7.800	0.01	0.02	0.02	0.00	0.00	2.000	214.00
7.850	0.01	0.03	0.04	0.00	0.00	3.000	214.00
7.900	0.01	0.05	0.05	0.00	0.00	5.000	214.00
7.950	0.01	0.07	0.08	0.00	0.00	6.000	214.00
8.000	0.02	0.10	0.10	0.00	0.00	9.000	214.00
8.050	0.02	0.12	0.13	0.00	0.00	11.000	214.00
8.100	0.02	0.15	0.16	0.00	0.00	14.000	214.00
8.150	0.02	0.19	0.20	0.01	0.00	17.000	214.00
8.200	0.03	0.22	0.24	0.01	0.00	20.000	214.00
8.250	0.03	0.27	0.28	0.01	0.00	24.000	214.00
8.300	0.03	0.31	0.33	0.01	0.00	28.000	214.00
8.350	0.04	0.36	0.38	0.01	0.00	32.000	214.01
8.400	0.04	0.41	0.43	0.01	0.00	37.000	214.01
8.450	0.04	0.47	0.49	0.01	0.00	42.000	214.01
8.500	0.05	0.53	0.56	0.02	0.00	47.000	214.01
8.550	0.05	0.59	0.63	0.02	0.00	53.000	214.01
8.600	0.06	0.66	0.70	0.02	0.00	59.000	214.01
8.650	0.06	0.73	0.77	0.02	0.00	65.000	214.01
8.700	0.06	0.81	0.86	0.02	0.00	72.000	214.01
8.750	0.07	0.89	0.94	0.03	0.00	80.000	214.01
8.800	0.07	0.97	1.03	0.03	0.00	87.000	214.01
8.850	0.08	1.06	1.12	0.03	0.00	95.000	214.02
8.900	0.08	1.16	1.22	0.03	0.00	103.000	214.02
8.950	0.09	1.25	1.33	0.04	0.00	112.000	214.02
9.000	0.09	1.35	1.43	0.04	0.00	121.000	214.02
9.050	0.10	1.46	1.55	0.04	0.00	131.000	214.02
9.100	0.10	1.57	1.66	0.05	0.00	141.000	214.02
9.150	0.11	1.69	1.78	0.05	0.00	151.000	214.03

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft^3/s)	2S/t - O (ft^3/s)	2S/t + O (ft^3/s)	Infiltration (ft^3/s)	Flow (Outlet) (ft^3/s)	Volume (ft^3)	Elevation (ft)
9.200	0.12	1.81	1.91	0.05	0.00	162.000	214.03
9.250	0.12	1.93	2.04	0.06	0.00	173.000	214.03
9.300	0.13	2.06	2.18	0.06	0.00	184.000	214.03
9.350	0.13	2.19	2.32	0.06	0.00	196.000	214.03
9.400	0.14	2.33	2.46	0.07	0.00	209.000	214.04
9.450	0.15	2.47	2.61	0.07	0.00	221.000	214.04
9.500	0.15	2.62	2.77	0.08	0.00	235.000	214.04
9.550	0.16	2.77	2.93	0.08	0.00	248.000	214.04
9.600	0.17	2.92	3.09	0.09	0.00	262.000	214.04
9.650	0.17	3.08	3.26	0.09	0.00	277.000	214.05
9.700	0.18	3.25	3.44	0.09	0.00	291.000	214.05
9.750	0.19	3.42	3.62	0.10	0.00	307.000	214.05
9.800	0.20	3.59	3.80	0.10	0.00	322.000	214.05
9.850	0.20	3.77	3.99	0.11	0.00	338.000	214.06
9.900	0.21	3.95	4.18	0.12	0.00	355.000	214.06
9.950	0.22	4.14	4.38	0.12	0.00	372.000	214.06
10.000	0.23	4.33	4.58	0.13	0.00	389.000	214.07
10.050	0.24	4.53	4.79	0.13	0.00	407.000	214.07
10.100	0.25	4.73	5.01	0.14	0.00	425.000	214.07
10.150	0.26	4.94	5.23	0.14	0.00	444.000	214.08
10.200	0.27	5.17	5.47	0.15	0.00	465.000	214.08
10.250	0.28	5.40	5.71	0.16	0.00	486.000	214.08
10.300	0.29	5.64	5.97	0.16	0.00	508.000	214.09
10.350	0.31	5.90	6.24	0.17	0.00	531.000	214.09
10.400	0.32	6.16	6.52	0.18	0.00	555.000	214.09
10.450	0.33	6.44	6.81	0.19	0.00	580.000	214.10
10.500	0.35	6.72	7.12	0.20	0.00	606.000	214.10
10.550	0.36	7.02	7.43	0.20	0.00	633.000	214.11
10.600	0.37	7.33	7.76	0.21	0.00	661.000	214.11
10.650	0.39	7.65	8.09	0.22	0.00	689.000	214.12
10.700	0.40	7.98	8.44	0.23	0.00	719.000	214.12
10.750	0.42	8.32	8.80	0.24	0.00	750.000	214.13
10.800	0.44	8.67	9.17	0.25	0.00	782.000	214.13
10.850	0.45	9.03	9.55	0.26	0.00	815.000	214.14
10.900	0.47	9.40	9.95	0.27	0.00	849.000	214.14
10.950	0.49	9.78	10.35	0.29	0.00	884.000	214.15
11.000	0.50	10.18	10.77	0.30	0.00	920.000	214.15
11.050	0.53	10.59	11.21	0.31	0.00	958.000	214.16
11.100	0.56	11.03	11.68	0.32	0.00	998.000	214.17
11.150	0.60	11.52	12.19	0.34	0.00	1,043.000	214.18
11.200	0.64	12.06	12.76	0.35	0.00	1,093.000	214.18
11.250	0.69	12.66	13.39	0.37	0.00	1,147.000	214.19
11.300	0.74	13.31	14.09	0.39	0.00	1,207.000	214.20
11.350	0.79	14.02	14.84	0.41	0.00	1,273.000	214.21
11.400	0.84	14.79	15.66	0.43	0.00	1,344.000	214.22
11.450	0.90	15.62	16.53	0.46	0.00	1,421.000	214.24

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1D (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
11.500	0.95	16.51	17.47	0.48	0.00	1,503.000	214.25
11.550	1.14	17.57	18.60	0.51	0.00	1,602.000	214.27
11.600	1.37	18.98	20.08	0.55	0.00	1,732.000	214.29
11.650	1.76	20.89	22.10	0.61	0.00	1,910.000	214.32
11.700	2.21	23.48	24.85	0.69	0.00	2,153.000	214.36
11.750	2.70	26.83	28.40	0.78	0.00	2,469.000	214.41
11.800	3.24	30.96	32.77	0.90	0.00	2,862.000	214.47
11.850	3.81	36.09	38.01	0.96	0.00	3,326.000	214.54
11.900	4.42	42.40	44.32	0.96	0.00	3,881.000	214.63
11.950	6.48	51.38	53.30	0.96	0.00	4,683.000	214.76
12.000	9.11	65.05	66.97	0.96	0.00	5,930.000	214.94
12.050	10.13	82.38	84.30	0.96	0.00	7,475.000	215.17
12.100	10.69	101.28	103.20	0.96	0.00	9,186.000	215.42
12.150	9.01	119.06	120.98	0.96	0.00	10,792.000	215.64
12.200	6.58	132.71	134.65	0.96	0.01	12,031.000	215.81
12.250	5.58	142.46	144.87	0.96	0.25	12,925.000	215.92
12.300	4.92	150.09	152.96	0.96	0.48	13,633.000	216.02
12.350	4.33	155.85	159.34	0.96	0.79	14,167.000	216.09
12.400	3.74	159.98	163.92	0.96	1.01	14,552.000	216.14
12.450	3.14	162.64	166.86	0.96	1.15	14,801.000	216.17
12.500	2.53	163.95	168.31	0.96	1.22	14,924.000	216.18
12.550	2.12	164.21	168.59	0.96	1.23	14,949.000	216.19
12.600	1.76	163.75	168.09	0.96	1.21	14,906.000	216.18
12.650	1.63	162.89	167.14	0.96	1.16	14,825.000	216.17
12.700	1.55	161.92	166.06	0.96	1.11	14,734.000	216.16
12.750	1.48	160.91	164.95	0.96	1.06	14,640.000	216.15
12.800	1.42	159.89	163.81	0.96	1.00	14,544.000	216.13
12.850	1.35	158.85	162.66	0.96	0.95	14,446.000	216.12
12.900	1.29	157.79	161.49	0.96	0.89	14,348.000	216.11
12.950	1.22	156.72	160.30	0.96	0.83	14,248.000	216.10
13.000	1.16	155.63	159.10	0.96	0.77	14,147.000	216.08
13.050	1.11	154.55	157.90	0.96	0.72	14,046.000	216.07
13.100	1.07	153.50	156.73	0.96	0.66	13,948.000	216.06
13.150	1.05	152.48	155.61	0.96	0.60	13,855.000	216.05
13.200	1.03	151.53	154.56	0.96	0.55	13,767.000	216.03
13.250	1.01	150.64	153.57	0.96	0.51	13,685.000	216.02
13.300	1.00	149.81	152.65	0.96	0.46	13,608.000	216.01
13.350	0.98	149.03	151.79	0.96	0.42	13,536.000	216.00
13.400	0.96	148.27	150.97	0.96	0.39	13,465.000	215.99
13.450	0.95	147.51	150.18	0.96	0.37	13,395.000	215.99
13.500	0.93	146.76	149.39	0.96	0.35	13,325.000	215.98
13.550	0.91	146.01	148.61	0.96	0.34	13,255.000	215.97
13.600	0.90	145.27	147.82	0.96	0.32	13,186.000	215.96
13.650	0.88	144.53	147.05	0.96	0.30	13,117.000	215.95
13.700	0.86	143.79	146.27	0.96	0.28	13,049.000	215.94
13.750	0.85	143.05	145.49	0.96	0.26	12,980.000	215.93

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out)	Return Event: 2 years
Label: IB-1D (OUT)	Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
13.800	0.83	142.31	144.72	0.96	0.25	12,912.000	215.92
13.850	0.81	141.58	143.95	0.96	0.23	12,844.000	215.91
13.900	0.79	140.84	143.18	0.96	0.21	12,777.000	215.90
13.950	0.78	140.11	142.42	0.96	0.19	12,709.000	215.90
14.000	0.76	139.38	141.65	0.96	0.17	12,642.000	215.89
14.050	0.75	138.66	140.89	0.96	0.16	12,575.000	215.88
14.100	0.73	137.94	140.13	0.96	0.14	12,509.000	215.87
14.150	0.72	137.23	139.39	0.96	0.12	12,444.000	215.86
14.200	0.72	136.54	138.67	0.96	0.10	12,381.000	215.85
14.250	0.71	135.87	137.97	0.96	0.09	12,319.000	215.84
14.300	0.70	135.21	137.28	0.96	0.07	12,259.000	215.84
14.350	0.69	134.57	136.60	0.96	0.06	12,201.000	215.83
14.400	0.68	133.94	135.95	0.96	0.04	12,143.000	215.82
14.450	0.67	133.33	135.30	0.96	0.03	12,087.000	215.81
14.500	0.67	132.73	134.67	0.96	0.01	12,033.000	215.81
14.550	0.66	132.13	134.05	0.96	0.00	11,978.000	215.80
14.600	0.65	131.52	133.44	0.96	0.00	11,922.000	215.79
14.650	0.64	130.89	132.81	0.96	0.00	11,865.000	215.78
14.700	0.63	130.25	132.17	0.96	0.00	11,806.000	215.77
14.750	0.62	129.59	131.51	0.96	0.00	11,745.000	215.77
14.800	0.62	128.91	130.83	0.96	0.00	11,683.000	215.76
14.850	0.61	128.21	130.13	0.96	0.00	11,620.000	215.75
14.900	0.60	127.50	129.42	0.96	0.00	11,555.000	215.74
14.950	0.59	126.77	128.69	0.96	0.00	11,489.000	215.73
15.000	0.58	126.03	127.95	0.96	0.00	11,421.000	215.72
15.050	0.57	125.27	127.19	0.96	0.00	11,352.000	215.71
15.100	0.57	124.49	126.41	0.96	0.00	11,281.000	215.70
15.150	0.56	123.69	125.61	0.96	0.00	11,209.000	215.69
15.200	0.55	122.88	124.80	0.96	0.00	11,136.000	215.68
15.250	0.54	122.05	123.97	0.96	0.00	11,061.000	215.67
15.300	0.53	121.20	123.12	0.96	0.00	10,984.000	215.66
15.350	0.52	120.34	122.26	0.96	0.00	10,906.000	215.65
15.400	0.52	119.46	121.38	0.96	0.00	10,827.000	215.64
15.450	0.51	118.56	120.48	0.96	0.00	10,747.000	215.63
15.500	0.50	117.64	119.56	0.96	0.00	10,664.000	215.62
15.550	0.49	116.71	118.63	0.96	0.00	10,581.000	215.61
15.600	0.48	115.76	117.68	0.96	0.00	10,496.000	215.60
15.650	0.47	114.80	116.72	0.96	0.00	10,410.000	215.59
15.700	0.46	113.81	115.73	0.96	0.00	10,322.000	215.57
15.750	0.46	112.81	114.73	0.96	0.00	10,233.000	215.56
15.800	0.45	111.79	113.71	0.96	0.00	10,142.000	215.55
15.850	0.44	110.76	112.68	0.96	0.00	10,050.000	215.54
15.900	0.43	109.71	111.63	0.96	0.00	9,957.000	215.52
15.950	0.42	108.63	110.55	0.96	0.00	9,862.000	215.51
16.000	0.41	107.55	109.47	0.96	0.00	9,765.000	215.50
16.050	0.41	106.45	108.37	0.96	0.00	9,663.000	215.48

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1D (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
16.100	0.40	105.33	107.25	0.96	0.00	9,559.000	215.47
16.150	0.39	104.20	106.12	0.96	0.00	9,455.000	215.45
16.200	0.39	103.07	104.99	0.96	0.00	9,350.000	215.44
16.250	0.39	101.93	103.85	0.96	0.00	9,245.000	215.42
16.300	0.38	100.78	102.70	0.96	0.00	9,139.000	215.41
16.350	0.38	99.62	101.54	0.96	0.00	9,033.000	215.39
16.400	0.38	98.45	100.37	0.96	0.00	8,926.000	215.38
16.450	0.37	97.28	99.20	0.96	0.00	8,819.000	215.36
16.500	0.37	96.10	98.02	0.96	0.00	8,712.000	215.35
16.550	0.36	94.91	96.83	0.96	0.00	8,603.000	215.33
16.600	0.36	93.72	95.64	0.96	0.00	8,495.000	215.32
16.650	0.36	92.52	94.44	0.96	0.00	8,386.000	215.30
16.700	0.35	91.31	93.23	0.96	0.00	8,276.000	215.29
16.750	0.35	90.09	92.01	0.96	0.00	8,166.000	215.27
16.800	0.35	88.86	90.78	0.96	0.00	8,056.000	215.25
16.850	0.34	87.63	89.55	0.96	0.00	7,945.000	215.24
16.900	0.34	86.39	88.31	0.96	0.00	7,834.000	215.22
16.950	0.33	85.14	87.06	0.96	0.00	7,722.000	215.21
17.000	0.33	83.89	85.81	0.96	0.00	7,610.000	215.19
17.050	0.33	82.63	84.55	0.96	0.00	7,497.000	215.17
17.100	0.32	81.36	83.28	0.96	0.00	7,384.000	215.16
17.150	0.32	80.08	82.00	0.96	0.00	7,271.000	215.14
17.200	0.31	78.79	80.71	0.96	0.00	7,157.000	215.12
17.250	0.31	77.50	79.42	0.96	0.00	7,042.000	215.11
17.300	0.31	76.20	78.12	0.96	0.00	6,927.000	215.09
17.350	0.30	74.89	76.81	0.96	0.00	6,812.000	215.07
17.400	0.30	73.57	75.49	0.96	0.00	6,697.000	215.06
17.450	0.30	72.25	74.17	0.96	0.00	6,581.000	215.04
17.500	0.29	70.92	72.84	0.96	0.00	6,464.000	215.02
17.550	0.29	69.58	71.50	0.96	0.00	6,348.000	215.01
17.600	0.28	68.24	70.16	0.96	0.00	6,225.000	214.99
17.650	0.28	66.88	68.80	0.96	0.00	6,099.000	214.97
17.700	0.28	65.52	67.44	0.96	0.00	5,973.000	214.95
17.750	0.27	64.15	66.07	0.96	0.00	5,847.000	214.93
17.800	0.27	62.77	64.69	0.96	0.00	5,720.000	214.91
17.850	0.27	61.39	63.31	0.96	0.00	5,593.000	214.89
17.900	0.26	60.00	61.92	0.96	0.00	5,466.000	214.87
17.950	0.26	58.60	60.52	0.96	0.00	5,338.000	214.85
18.000	0.25	57.19	59.11	0.96	0.00	5,209.000	214.84
18.050	0.25	55.78	57.70	0.96	0.00	5,081.000	214.82
18.100	0.25	54.35	56.27	0.96	0.00	4,952.000	214.80
18.150	0.25	52.93	54.85	0.96	0.00	4,823.000	214.78
18.200	0.25	51.50	53.42	0.96	0.00	4,695.000	214.76
18.250	0.25	50.08	52.00	0.96	0.00	4,566.000	214.74
18.300	0.24	48.65	50.57	0.96	0.00	4,438.000	214.72
18.350	0.24	47.21	49.13	0.96	0.00	4,309.000	214.70

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1D (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
18.400	0.24	45.78	47.70	0.96	0.00	4,181.000	214.68
18.450	0.24	44.34	46.26	0.96	0.00	4,053.000	214.66
18.500	0.24	42.90	44.82	0.96	0.00	3,926.000	214.64
18.550	0.24	41.46	43.38	0.96	0.00	3,798.000	214.62
18.600	0.24	40.01	41.93	0.96	0.00	3,670.000	214.60
18.650	0.24	38.57	40.49	0.96	0.00	3,543.000	214.58
18.700	0.23	37.12	39.04	0.96	0.00	3,416.000	214.56
18.750	0.23	35.67	37.59	0.96	0.00	3,289.000	214.54
18.800	0.23	34.21	36.13	0.96	0.00	3,162.000	214.52
18.850	0.23	32.77	34.68	0.96	0.00	3,035.000	214.50
18.900	0.23	31.40	33.23	0.92	0.00	2,903.000	214.48
18.950	0.23	30.10	31.86	0.88	0.00	2,780.000	214.46
19.000	0.23	28.87	30.56	0.84	0.00	2,663.000	214.44
19.050	0.23	27.71	29.33	0.81	0.00	2,553.000	214.42
19.100	0.23	26.61	28.16	0.78	0.00	2,448.000	214.40
19.150	0.22	25.57	27.06	0.75	0.00	2,350.000	214.39
19.200	0.22	24.58	26.02	0.72	0.00	2,257.000	214.37
19.250	0.22	23.65	25.03	0.69	0.00	2,169.000	214.36
19.300	0.22	22.76	24.09	0.66	0.00	2,086.000	214.35
19.350	0.22	21.93	23.20	0.64	0.00	2,007.000	214.33
19.400	0.22	21.13	22.36	0.62	0.00	1,933.000	214.32
19.450	0.22	20.38	21.57	0.59	0.00	1,863.000	214.31
19.500	0.22	19.67	20.81	0.57	0.00	1,796.000	214.30
19.550	0.22	18.99	20.10	0.55	0.00	1,733.000	214.29
19.600	0.21	18.35	19.42	0.54	0.00	1,674.000	214.28
19.650	0.21	17.74	18.78	0.52	0.00	1,617.000	214.27
19.700	0.21	17.17	18.17	0.50	0.00	1,564.000	214.26
19.750	0.21	16.62	17.59	0.49	0.00	1,513.000	214.25
19.800	0.21	16.10	17.04	0.47	0.00	1,465.000	214.24
19.850	0.21	15.61	16.52	0.46	0.00	1,420.000	214.24
19.900	0.21	15.14	16.03	0.44	0.00	1,376.000	214.23
19.950	0.21	14.70	15.56	0.43	0.00	1,335.000	214.22
20.000	0.21	14.28	15.11	0.42	0.00	1,297.000	214.22
20.050	0.20	13.88	14.69	0.41	0.00	1,260.000	214.21
20.100	0.20	13.50	14.29	0.39	0.00	1,225.000	214.21
20.150	0.20	13.14	13.90	0.38	0.00	1,191.000	214.20
20.200	0.20	12.79	13.54	0.37	0.00	1,160.000	214.19
20.250	0.20	12.47	13.20	0.36	0.00	1,130.000	214.19
20.300	0.20	12.16	12.87	0.35	0.00	1,102.000	214.18
20.350	0.20	11.87	12.56	0.35	0.00	1,075.000	214.18
20.400	0.20	11.59	12.27	0.34	0.00	1,049.000	214.18
20.450	0.20	11.32	11.98	0.33	0.00	1,025.000	214.17
20.500	0.20	11.07	11.72	0.32	0.00	1,002.000	214.17
20.550	0.20	10.83	11.46	0.32	0.00	980.000	214.16
20.600	0.20	10.60	11.22	0.31	0.00	959.000	214.16
20.650	0.19	10.39	10.99	0.30	0.00	939.000	214.16

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
20.700	0.19	10.18	10.77	0.30	0.00	920.000	214.15
20.750	0.19	9.98	10.56	0.29	0.00	902.000	214.15
20.800	0.19	9.79	10.36	0.29	0.00	885.000	214.15
20.850	0.19	9.61	10.18	0.28	0.00	869.000	214.15
20.900	0.19	9.44	9.99	0.28	0.00	853.000	214.14
20.950	0.19	9.28	9.82	0.27	0.00	838.000	214.14
21.000	0.19	9.13	9.66	0.27	0.00	824.000	214.14
21.050	0.19	8.98	9.50	0.26	0.00	811.000	214.14
21.100	0.19	8.84	9.35	0.26	0.00	798.000	214.13
21.150	0.19	8.70	9.21	0.25	0.00	785.000	214.13
21.200	0.18	8.57	9.07	0.25	0.00	773.000	214.13
21.250	0.18	8.44	8.94	0.25	0.00	762.000	214.13
21.300	0.18	8.33	8.81	0.24	0.00	751.000	214.13
21.350	0.18	8.21	8.69	0.24	0.00	741.000	214.12
21.400	0.18	8.10	8.57	0.24	0.00	731.000	214.12
21.450	0.18	8.00	8.46	0.23	0.00	721.000	214.12
21.500	0.18	7.89	8.36	0.23	0.00	712.000	214.12
21.550	0.18	7.80	8.25	0.23	0.00	703.000	214.12
21.600	0.18	7.70	8.15	0.22	0.00	695.000	214.12
21.650	0.18	7.61	8.06	0.22	0.00	687.000	214.12
21.700	0.18	7.53	7.97	0.22	0.00	679.000	214.11
21.750	0.18	7.44	7.88	0.22	0.00	671.000	214.11
21.800	0.18	7.36	7.79	0.21	0.00	664.000	214.11
21.850	0.17	7.29	7.71	0.21	0.00	657.000	214.11
21.900	0.17	7.21	7.63	0.21	0.00	650.000	214.11
21.950	0.17	7.14	7.56	0.21	0.00	643.000	214.11
22.000	0.17	7.07	7.48	0.21	0.00	637.000	214.11
22.050	0.17	7.00	7.41	0.20	0.00	631.000	214.11
22.100	0.17	6.94	7.34	0.20	0.00	625.000	214.11
22.150	0.17	6.87	7.27	0.20	0.00	619.000	214.10
22.200	0.17	6.81	7.21	0.20	0.00	614.000	214.10
22.250	0.17	6.75	7.14	0.20	0.00	608.000	214.10
22.300	0.16	6.69	7.08	0.20	0.00	603.000	214.10
22.350	0.16	6.63	7.02	0.19	0.00	597.000	214.10
22.400	0.16	6.58	6.96	0.19	0.00	592.000	214.10
22.450	0.16	6.52	6.90	0.19	0.00	588.000	214.10
22.500	0.16	6.47	6.85	0.19	0.00	583.000	214.10
22.550	0.16	6.42	6.79	0.19	0.00	578.000	214.10
22.600	0.16	6.37	6.74	0.19	0.00	574.000	214.10
22.650	0.16	6.32	6.69	0.18	0.00	569.000	214.10
22.700	0.16	6.27	6.64	0.18	0.00	565.000	214.10
22.750	0.16	6.23	6.59	0.18	0.00	561.000	214.09
22.800	0.16	6.18	6.54	0.18	0.00	556.000	214.09
22.850	0.16	6.14	6.49	0.18	0.00	552.000	214.09
22.900	0.16	6.09	6.45	0.18	0.00	548.000	214.09
22.950	0.15	6.05	6.40	0.18	0.00	544.000	214.09

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1D (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
23.000	0.15	6.01	6.36	0.18	0.00	541.000	214.09
23.050	0.15	5.96	6.31	0.17	0.00	537.000	214.09
23.100	0.15	5.92	6.27	0.17	0.00	533.000	214.09
23.150	0.15	5.88	6.22	0.17	0.00	529.000	214.09
23.200	0.15	5.84	6.18	0.17	0.00	525.000	214.09
23.250	0.15	5.80	6.14	0.17	0.00	522.000	214.09
23.300	0.15	5.76	6.10	0.17	0.00	518.000	214.09
23.350	0.15	5.72	6.06	0.17	0.00	515.000	214.09
23.400	0.15	5.68	6.02	0.17	0.00	511.000	214.09
23.450	0.15	5.65	5.98	0.16	0.00	508.000	214.09
23.500	0.14	5.61	5.94	0.16	0.00	505.000	214.09
23.550	0.14	5.57	5.90	0.16	0.00	501.000	214.08
23.600	0.14	5.54	5.86	0.16	0.00	498.000	214.08
23.650	0.14	5.50	5.82	0.16	0.00	495.000	214.08
23.700	0.14	5.46	5.78	0.16	0.00	492.000	214.08
23.750	0.14	5.43	5.75	0.16	0.00	488.000	214.08
23.800	0.14	5.39	5.71	0.16	0.00	485.000	214.08
23.850	0.14	5.36	5.67	0.16	0.00	482.000	214.08
23.900	0.14	5.32	5.63	0.16	0.00	479.000	214.08
23.950	0.14	5.29	5.60	0.15	0.00	476.000	214.08
24.000	0.14	5.25	5.56	0.15	0.00	473.000	214.08

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1D (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out)
Label: IB-1D (OUT)
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft^3/s)	2S/t - O (ft^3/s)	2S/t + O (ft^3/s)	Infiltration (ft^3/s)	Flow (Outlet) (ft^3/s)	Volume (ft^3)	Elevation (ft)
0.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1D (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
3.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
5.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
6.050	0.00	0.01	0.01	0.00	0.00	1.000	214.00
6.100	0.01	0.02	0.02	0.00	0.00	2.000	214.00
6.150	0.01	0.03	0.03	0.00	0.00	3.000	214.00
6.200	0.01	0.05	0.05	0.00	0.00	4.000	214.00
6.250	0.01	0.07	0.07	0.00	0.00	6.000	214.00
6.300	0.02	0.09	0.10	0.00	0.00	8.000	214.00
6.350	0.02	0.12	0.12	0.00	0.00	10.000	214.00
6.400	0.02	0.15	0.15	0.00	0.00	13.000	214.00
6.450	0.02	0.18	0.19	0.01	0.00	16.000	214.00
6.500	0.03	0.21	0.23	0.01	0.00	19.000	214.00
6.550	0.03	0.25	0.27	0.01	0.00	23.000	214.00
6.600	0.03	0.29	0.31	0.01	0.00	26.000	214.00
6.650	0.03	0.34	0.36	0.01	0.00	30.000	214.01
6.700	0.04	0.39	0.41	0.01	0.00	35.000	214.01
6.750	0.04	0.44	0.46	0.01	0.00	39.000	214.01
6.800	0.04	0.49	0.52	0.01	0.00	44.000	214.01
6.850	0.05	0.55	0.58	0.02	0.00	49.000	214.01
6.900	0.05	0.61	0.65	0.02	0.00	55.000	214.01
6.950	0.05	0.67	0.71	0.02	0.00	60.000	214.01
7.000	0.06	0.74	0.78	0.02	0.00	66.000	214.01
7.050	0.06	0.81	0.85	0.02	0.00	72.000	214.01
7.100	0.06	0.88	0.93	0.03	0.00	79.000	214.01
7.150	0.07	0.95	1.01	0.03	0.00	85.000	214.01
7.200	0.07	1.03	1.09	0.03	0.00	92.000	214.02
7.250	0.07	1.11	1.18	0.03	0.00	100.000	214.02
7.300	0.08	1.20	1.27	0.03	0.00	107.000	214.02
7.350	0.08	1.28	1.36	0.04	0.00	115.000	214.02
7.400	0.09	1.37	1.45	0.04	0.00	123.000	214.02
7.450	0.09	1.46	1.55	0.04	0.00	131.000	214.02
7.500	0.10	1.56	1.65	0.05	0.00	140.000	214.02
7.550	0.10	1.66	1.75	0.05	0.00	148.000	214.03
7.600	0.10	1.76	1.86	0.05	0.00	158.000	214.03
7.650	0.11	1.86	1.97	0.05	0.00	167.000	214.03

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1D (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
7.700	0.11	1.97	2.08	0.06	0.00	176.000	214.03
7.750	0.12	2.08	2.20	0.06	0.00	186.000	214.03
7.800	0.12	2.19	2.32	0.06	0.00	196.000	214.03
7.850	0.13	2.30	2.44	0.07	0.00	206.000	214.03
7.900	0.13	2.42	2.56	0.07	0.00	217.000	214.04
7.950	0.14	2.54	2.69	0.07	0.00	228.000	214.04
8.000	0.14	2.66	2.82	0.08	0.00	239.000	214.04
8.050	0.15	2.79	2.95	0.08	0.00	250.000	214.04
8.100	0.15	2.92	3.09	0.09	0.00	262.000	214.04
8.150	0.16	3.05	3.23	0.09	0.00	274.000	214.05
8.200	0.17	3.19	3.38	0.09	0.00	287.000	214.05
8.250	0.17	3.34	3.54	0.10	0.00	300.000	214.05
8.300	0.18	3.49	3.70	0.10	0.00	314.000	214.05
8.350	0.19	3.65	3.87	0.11	0.00	328.000	214.06
8.400	0.20	3.82	4.04	0.11	0.00	343.000	214.06
8.450	0.21	3.99	4.23	0.12	0.00	359.000	214.06
8.500	0.22	4.17	4.42	0.12	0.00	375.000	214.06
8.550	0.22	4.36	4.62	0.13	0.00	392.000	214.07
8.600	0.23	4.55	4.82	0.13	0.00	409.000	214.07
8.650	0.24	4.75	5.03	0.14	0.00	427.000	214.07
8.700	0.25	4.96	5.25	0.14	0.00	446.000	214.08
8.750	0.26	5.17	5.48	0.15	0.00	465.000	214.08
8.800	0.27	5.39	5.71	0.16	0.00	485.000	214.08
8.850	0.28	5.62	5.95	0.16	0.00	506.000	214.09
8.900	0.29	5.85	6.19	0.17	0.00	527.000	214.09
8.950	0.30	6.09	6.45	0.18	0.00	549.000	214.09
9.000	0.31	6.34	6.71	0.19	0.00	571.000	214.10
9.050	0.32	6.59	6.98	0.19	0.00	594.000	214.10
9.100	0.34	6.85	7.25	0.20	0.00	618.000	214.10
9.150	0.35	7.12	7.54	0.21	0.00	642.000	214.11
9.200	0.36	7.40	7.83	0.22	0.00	667.000	214.11
9.250	0.37	7.68	8.12	0.22	0.00	692.000	214.12
9.300	0.38	7.96	8.43	0.23	0.00	718.000	214.12
9.350	0.39	8.26	8.74	0.24	0.00	745.000	214.13
9.400	0.41	8.56	9.06	0.25	0.00	773.000	214.13
9.450	0.42	8.87	9.39	0.26	0.00	801.000	214.13
9.500	0.43	9.18	9.72	0.27	0.00	829.000	214.14
9.550	0.44	9.50	10.06	0.28	0.00	859.000	214.14
9.600	0.46	9.83	10.41	0.29	0.00	889.000	214.15
9.650	0.47	10.17	10.76	0.30	0.00	919.000	214.15
9.700	0.48	10.51	11.12	0.31	0.00	950.000	214.16
9.750	0.50	10.85	11.49	0.32	0.00	982.000	214.16
9.800	0.51	11.21	11.86	0.33	0.00	1,015.000	214.17
9.850	0.52	11.57	12.24	0.34	0.00	1,048.000	214.18
9.900	0.54	11.94	12.63	0.35	0.00	1,081.000	214.18
9.950	0.55	12.31	13.03	0.36	0.00	1,115.000	214.19

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
10.000	0.57	12.69	13.43	0.37	0.00	1,150.000	214.19
10.050	0.58	13.08	13.84	0.38	0.00	1,186.000	214.20
10.100	0.60	13.48	14.26	0.39	0.00	1,223.000	214.20
10.150	0.62	13.89	14.70	0.41	0.00	1,261.000	214.21
10.200	0.65	14.33	15.16	0.42	0.00	1,301.000	214.22
10.250	0.67	14.78	15.65	0.43	0.00	1,343.000	214.22
10.300	0.69	15.26	16.15	0.45	0.00	1,387.000	214.23
10.350	0.72	15.75	16.67	0.46	0.00	1,433.000	214.24
10.400	0.74	16.26	17.21	0.47	0.00	1,480.000	214.25
10.450	0.77	16.80	17.78	0.49	0.00	1,529.000	214.26
10.500	0.79	17.35	18.36	0.51	0.00	1,580.000	214.26
10.550	0.82	17.92	18.96	0.52	0.00	1,633.000	214.27
10.600	0.85	18.50	19.58	0.54	0.00	1,688.000	214.28
10.650	0.87	19.11	20.22	0.56	0.00	1,744.000	214.29
10.700	0.90	19.73	20.88	0.58	0.00	1,802.000	214.30
10.750	0.93	20.37	21.56	0.59	0.00	1,862.000	214.31
10.800	0.96	21.03	22.26	0.61	0.00	1,923.000	214.32
10.850	0.98	21.70	22.97	0.63	0.00	1,987.000	214.33
10.900	1.01	22.39	23.70	0.65	0.00	2,051.000	214.34
10.950	1.04	23.10	24.45	0.67	0.00	2,118.000	214.35
11.000	1.07	23.83	25.22	0.70	0.00	2,186.000	214.36
11.050	1.12	24.59	26.02	0.72	0.00	2,257.000	214.37
11.100	1.18	25.40	26.88	0.74	0.00	2,334.000	214.39
11.150	1.25	26.30	27.83	0.77	0.00	2,419.000	214.40
11.200	1.34	27.30	28.89	0.80	0.00	2,514.000	214.41
11.250	1.43	28.41	30.07	0.83	0.00	2,619.000	214.43
11.300	1.52	29.63	31.35	0.86	0.00	2,735.000	214.45
11.350	1.61	30.95	32.75	0.90	0.00	2,861.000	214.47
11.400	1.71	32.38	34.27	0.94	0.00	2,997.000	214.49
11.450	1.80	33.96	35.88	0.96	0.00	3,140.000	214.51
11.500	1.90	35.75	37.67	0.96	0.00	3,296.000	214.54
11.550	2.26	37.99	39.91	0.96	0.00	3,492.000	214.57
11.600	2.69	41.02	42.94	0.96	0.00	3,759.000	214.61
11.650	3.42	45.22	47.14	0.96	0.00	4,131.000	214.67
11.700	4.26	50.97	52.89	0.96	0.00	4,647.000	214.75
11.750	5.15	58.46	60.38	0.96	0.00	5,325.000	214.85
11.800	6.09	67.77	69.69	0.96	0.00	6,182.000	214.98
11.850	7.07	79.00	80.92	0.96	0.00	7,175.000	215.13
11.900	8.10	92.25	94.17	0.96	0.00	8,362.000	215.30
11.950	11.68	110.11	112.03	0.96	0.00	9,993.000	215.53
12.000	16.14	135.84	137.93	0.96	0.09	12,317.000	215.84
12.050	17.65	165.15	169.64	0.96	1.28	15,037.000	216.20
12.100	18.36	193.49	201.16	0.96	2.88	17,751.000	216.54
12.150	15.29	216.05	227.14	0.96	4.58	19,914.000	216.80
12.200	11.08	229.32	242.42	0.96	5.59	21,218.000	216.95
12.250	9.34	235.64	249.74	0.96	6.09	21,836.000	217.02

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1D (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
12.300	8.19	238.56	253.16	0.96	6.34	22,115.000	217.06
12.350	7.18	239.20	253.92	0.96	6.40	22,177.000	217.06
12.400	6.18	238.04	252.56	0.96	6.30	22,066.000	217.05
12.450	5.18	235.34	249.39	0.96	6.07	21,809.000	217.02
12.500	4.16	231.28	244.68	0.96	5.74	21,412.000	216.97
12.550	3.48	226.28	238.92	0.96	5.36	20,917.000	216.92
12.600	2.89	220.83	232.65	0.96	4.95	20,381.000	216.85
12.650	2.66	215.39	226.38	0.96	4.53	19,851.000	216.79
12.700	2.53	210.36	220.59	0.96	4.15	19,363.000	216.73
12.750	2.42	205.78	215.31	0.96	3.81	18,922.000	216.68
12.800	2.31	201.61	210.52	0.96	3.49	18,523.000	216.63
12.850	2.21	197.81	206.14	0.96	3.20	18,160.000	216.59
12.900	2.10	194.32	202.12	0.96	2.94	17,830.000	216.55
12.950	1.99	191.11	198.42	0.96	2.70	17,526.000	216.51
13.000	1.89	188.04	194.99	0.96	2.51	17,230.000	216.47
13.050	1.81	185.10	191.73	0.96	2.36	16,945.000	216.44
13.100	1.74	182.32	188.65	0.96	2.21	16,675.000	216.40
13.150	1.70	179.71	185.76	0.96	2.07	16,424.000	216.37
13.200	1.67	177.29	183.08	0.96	1.94	16,191.000	216.34
13.250	1.64	175.05	180.60	0.96	1.82	15,977.000	216.32
13.300	1.62	172.98	178.31	0.96	1.70	15,780.000	216.29
13.350	1.59	171.06	176.19	0.96	1.60	15,597.000	216.27
13.400	1.56	169.28	174.21	0.96	1.51	15,428.000	216.25
13.450	1.53	167.62	172.37	0.96	1.42	15,271.000	216.23
13.500	1.51	166.07	170.66	0.96	1.33	15,124.000	216.21
13.550	1.48	164.62	169.05	0.96	1.26	14,988.000	216.19
13.600	1.45	163.26	167.55	0.96	1.18	14,860.000	216.17
13.650	1.42	161.99	166.14	0.96	1.11	14,740.000	216.16
13.700	1.39	160.78	164.80	0.96	1.05	14,627.000	216.15
13.750	1.37	159.64	163.54	0.96	0.99	14,521.000	216.13
13.800	1.34	158.57	162.35	0.96	0.93	14,420.000	216.12
13.850	1.31	157.54	161.21	0.96	0.88	14,324.000	216.11
13.900	1.28	156.56	160.13	0.96	0.82	14,233.000	216.09
13.950	1.25	155.63	159.10	0.96	0.77	14,147.000	216.08
14.000	1.22	154.74	158.11	0.96	0.73	14,064.000	216.07
14.050	1.20	153.89	157.16	0.96	0.68	13,985.000	216.06
14.100	1.18	153.07	156.27	0.96	0.64	13,909.000	216.05
14.150	1.17	152.31	155.42	0.96	0.60	13,839.000	216.04
14.200	1.15	151.59	154.63	0.96	0.56	13,772.000	216.03
14.250	1.14	150.92	153.88	0.96	0.52	13,710.000	216.03
14.300	1.12	150.29	153.18	0.96	0.49	13,652.000	216.02
14.350	1.11	149.70	152.53	0.96	0.45	13,597.000	216.01
14.400	1.10	149.14	151.90	0.96	0.42	13,546.000	216.01
14.450	1.08	148.60	151.32	0.96	0.40	13,496.000	216.00
14.500	1.07	148.06	150.75	0.96	0.39	13,446.000	215.99
14.550	1.06	147.52	150.19	0.96	0.37	13,396.000	215.99

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1D (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
14.600	1.04	146.99	149.62	0.96	0.36	13,346.000	215.98
14.650	1.03	146.45	149.06	0.96	0.35	13,296.000	215.97
14.700	1.02	145.91	148.49	0.96	0.33	13,245.000	215.97
14.750	1.00	145.37	147.92	0.96	0.32	13,195.000	215.96
14.800	0.99	144.82	147.36	0.96	0.31	13,145.000	215.95
14.850	0.98	144.28	146.79	0.96	0.29	13,095.000	215.95
14.900	0.96	143.74	146.22	0.96	0.28	13,044.000	215.94
14.950	0.95	143.19	145.65	0.96	0.27	12,994.000	215.93
15.000	0.93	142.65	145.08	0.96	0.25	12,943.000	215.93
15.050	0.92	142.11	144.51	0.96	0.24	12,893.000	215.92
15.100	0.91	141.56	143.93	0.96	0.23	12,843.000	215.91
15.150	0.89	141.01	143.36	0.96	0.21	12,792.000	215.91
15.200	0.88	140.47	142.79	0.96	0.20	12,742.000	215.90
15.250	0.87	139.92	142.21	0.96	0.19	12,691.000	215.89
15.300	0.85	139.37	141.63	0.96	0.17	12,641.000	215.89
15.350	0.84	138.82	141.06	0.96	0.16	12,590.000	215.88
15.400	0.82	138.27	140.48	0.96	0.15	12,539.000	215.87
15.450	0.81	137.72	139.90	0.96	0.13	12,489.000	215.87
15.500	0.80	137.17	139.32	0.96	0.12	12,438.000	215.86
15.550	0.78	136.61	138.74	0.96	0.11	12,387.000	215.85
15.600	0.77	136.06	138.17	0.96	0.09	12,337.000	215.85
15.650	0.76	135.51	137.58	0.96	0.08	12,286.000	215.84
15.700	0.74	134.95	137.00	0.96	0.07	12,235.000	215.83
15.750	0.73	134.40	136.42	0.96	0.05	12,185.000	215.83
15.800	0.71	133.84	135.84	0.96	0.04	12,134.000	215.82
15.850	0.70	133.29	135.25	0.96	0.02	12,083.000	215.81
15.900	0.68	132.73	134.67	0.96	0.01	12,032.000	215.81
15.950	0.67	132.16	134.08	0.96	0.00	11,981.000	215.80
16.000	0.66	131.57	133.49	0.96	0.00	11,927.000	215.79
16.050	0.65	130.96	132.88	0.96	0.00	11,871.000	215.78
16.100	0.64	130.32	132.24	0.96	0.00	11,812.000	215.78
16.150	0.63	129.67	131.59	0.96	0.00	11,753.000	215.77
16.200	0.62	129.00	130.92	0.96	0.00	11,692.000	215.76
16.250	0.62	128.32	130.24	0.96	0.00	11,629.000	215.75
16.300	0.61	127.63	129.55	0.96	0.00	11,566.000	215.74
16.350	0.60	126.92	128.84	0.96	0.00	11,502.000	215.73
16.400	0.60	126.21	128.13	0.96	0.00	11,437.000	215.73
16.450	0.59	125.48	127.40	0.96	0.00	11,371.000	215.72
16.500	0.59	124.74	126.66	0.96	0.00	11,304.000	215.71
16.550	0.58	123.99	125.91	0.96	0.00	11,236.000	215.70
16.600	0.57	123.22	125.14	0.96	0.00	11,166.000	215.69
16.650	0.57	122.44	124.36	0.96	0.00	11,096.000	215.68
16.700	0.56	121.65	123.57	0.96	0.00	11,025.000	215.67
16.750	0.56	120.85	122.77	0.96	0.00	10,953.000	215.66
16.800	0.55	120.04	121.96	0.96	0.00	10,880.000	215.65
16.850	0.54	119.21	121.13	0.96	0.00	10,805.000	215.64

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1D (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
16.900	0.54	118.38	120.30	0.96	0.00	10,730.000	215.63
16.950	0.53	117.53	119.45	0.96	0.00	10,654.000	215.62
17.000	0.53	116.66	118.58	0.96	0.00	10,577.000	215.61
17.050	0.52	115.79	117.71	0.96	0.00	10,498.000	215.60
17.100	0.51	114.90	116.82	0.96	0.00	10,419.000	215.59
17.150	0.51	114.01	115.93	0.96	0.00	10,339.000	215.58
17.200	0.50	113.10	115.02	0.96	0.00	10,258.000	215.56
17.250	0.50	112.17	114.09	0.96	0.00	10,176.000	215.55
17.300	0.49	111.24	113.16	0.96	0.00	10,093.000	215.54
17.350	0.48	110.29	112.21	0.96	0.00	10,009.000	215.53
17.400	0.48	109.33	111.25	0.96	0.00	9,924.000	215.52
17.450	0.47	108.36	110.28	0.96	0.00	9,838.000	215.51
17.500	0.47	107.38	109.30	0.96	0.00	9,749.000	215.49
17.550	0.46	106.38	108.30	0.96	0.00	9,657.000	215.48
17.600	0.45	105.37	107.29	0.96	0.00	9,563.000	215.47
17.650	0.45	104.35	106.27	0.96	0.00	9,469.000	215.45
17.700	0.44	103.32	105.24	0.96	0.00	9,373.000	215.44
17.750	0.43	102.28	104.20	0.96	0.00	9,277.000	215.43
17.800	0.43	101.22	103.14	0.96	0.00	9,180.000	215.41
17.850	0.42	100.15	102.07	0.96	0.00	9,082.000	215.40
17.900	0.42	99.07	100.99	0.96	0.00	8,983.000	215.39
17.950	0.41	97.97	99.89	0.96	0.00	8,883.000	215.37
18.000	0.40	96.87	98.79	0.96	0.00	8,782.000	215.36
18.050	0.40	95.75	97.67	0.96	0.00	8,680.000	215.34
18.100	0.39	94.62	96.54	0.96	0.00	8,577.000	215.33
18.150	0.39	93.49	95.41	0.96	0.00	8,474.000	215.31
18.200	0.39	92.35	94.27	0.96	0.00	8,371.000	215.30
18.250	0.39	91.21	93.13	0.96	0.00	8,268.000	215.29
18.300	0.39	90.07	91.99	0.96	0.00	8,165.000	215.27
18.350	0.39	88.92	90.84	0.96	0.00	8,061.000	215.26
18.400	0.38	87.77	89.69	0.96	0.00	7,958.000	215.24
18.450	0.38	86.62	88.54	0.96	0.00	7,854.000	215.23
18.500	0.38	85.46	87.38	0.96	0.00	7,750.000	215.21
18.550	0.38	84.30	86.22	0.96	0.00	7,646.000	215.20
18.600	0.38	83.13	85.05	0.96	0.00	7,542.000	215.18
18.650	0.37	81.97	83.89	0.96	0.00	7,438.000	215.17
18.700	0.37	80.79	82.71	0.96	0.00	7,334.000	215.15
18.750	0.37	79.62	81.54	0.96	0.00	7,230.000	215.14
18.800	0.37	78.44	80.36	0.96	0.00	7,125.000	215.12
18.850	0.37	77.25	79.17	0.96	0.00	7,021.000	215.10
18.900	0.37	76.07	77.99	0.96	0.00	6,916.000	215.09
18.950	0.36	74.88	76.80	0.96	0.00	6,811.000	215.07
19.000	0.36	73.68	75.60	0.96	0.00	6,706.000	215.06
19.050	0.36	72.48	74.40	0.96	0.00	6,601.000	215.04
19.100	0.36	71.28	73.20	0.96	0.00	6,496.000	215.03
19.150	0.36	70.08	72.00	0.96	0.00	6,391.000	215.01

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1D (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
19.200	0.36	68.87	70.79	0.96	0.00	6,284.000	215.00
19.250	0.35	67.66	69.58	0.96	0.00	6,171.000	214.98
19.300	0.35	66.44	68.36	0.96	0.00	6,058.000	214.96
19.350	0.35	65.22	67.14	0.96	0.00	5,945.000	214.95
19.400	0.35	64.00	65.92	0.96	0.00	5,833.000	214.93
19.450	0.35	62.77	64.69	0.96	0.00	5,720.000	214.91
19.500	0.34	61.54	63.46	0.96	0.00	5,607.000	214.90
19.550	0.34	60.30	62.22	0.96	0.00	5,493.000	214.88
19.600	0.34	59.06	60.98	0.96	0.00	5,380.000	214.86
19.650	0.34	57.82	59.74	0.96	0.00	5,267.000	214.84
19.700	0.34	56.58	58.50	0.96	0.00	5,154.000	214.83
19.750	0.33	55.33	57.25	0.96	0.00	5,040.000	214.81
19.800	0.33	54.08	56.00	0.96	0.00	4,927.000	214.79
19.850	0.33	52.82	54.74	0.96	0.00	4,813.000	214.77
19.900	0.33	51.56	53.48	0.96	0.00	4,699.000	214.76
19.950	0.33	50.30	52.22	0.96	0.00	4,586.000	214.74
20.000	0.33	49.03	50.95	0.96	0.00	4,472.000	214.72
20.050	0.32	47.76	49.68	0.96	0.00	4,358.000	214.71
20.100	0.32	46.48	48.40	0.96	0.00	4,244.000	214.69
20.150	0.32	45.20	47.12	0.96	0.00	4,130.000	214.67
20.200	0.32	43.93	45.85	0.96	0.00	4,017.000	214.65
20.250	0.32	42.65	44.57	0.96	0.00	3,903.000	214.63
20.300	0.32	41.36	43.28	0.96	0.00	3,789.000	214.62
20.350	0.31	40.07	41.99	0.96	0.00	3,676.000	214.60
20.400	0.31	38.78	40.70	0.96	0.00	3,562.000	214.58
20.450	0.31	37.49	39.41	0.96	0.00	3,448.000	214.56
20.500	0.31	36.19	38.11	0.96	0.00	3,335.000	214.55
20.550	0.31	34.89	36.81	0.96	0.00	3,221.000	214.53
20.600	0.31	33.59	35.51	0.96	0.00	3,107.000	214.51
20.650	0.31	32.32	34.21	0.94	0.00	2,992.000	214.49
20.700	0.30	31.11	32.93	0.91	0.00	2,877.000	214.47
20.750	0.30	29.97	31.72	0.87	0.00	2,768.000	214.46
20.800	0.30	28.89	30.58	0.84	0.00	2,665.000	214.44
20.850	0.30	27.87	29.50	0.81	0.00	2,568.000	214.42
20.900	0.30	26.90	28.47	0.79	0.00	2,476.000	214.41
20.950	0.30	25.98	27.50	0.76	0.00	2,389.000	214.39
21.000	0.30	25.12	26.58	0.73	0.00	2,307.000	214.38
21.050	0.30	24.29	25.71	0.71	0.00	2,230.000	214.37
21.100	0.29	23.51	24.88	0.69	0.00	2,156.000	214.36
21.150	0.29	22.77	24.10	0.66	0.00	2,087.000	214.35
21.200	0.29	22.07	23.35	0.64	0.00	2,021.000	214.34
21.250	0.29	21.40	22.65	0.62	0.00	1,958.000	214.33
21.300	0.29	20.77	21.98	0.61	0.00	1,899.000	214.32
21.350	0.29	20.17	21.34	0.59	0.00	1,843.000	214.31
21.400	0.29	19.60	20.74	0.57	0.00	1,790.000	214.30
21.450	0.28	19.06	20.17	0.56	0.00	1,739.000	214.29

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) | Return Event: 10 years
Label: IB-1D (OUT) | Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
21.500	0.28	18.54	19.62	0.54	0.00	1,691.000	214.28
21.550	0.28	18.05	19.11	0.53	0.00	1,646.000	214.27
21.600	0.28	17.59	18.61	0.51	0.00	1,603.000	214.27
21.650	0.28	17.15	18.15	0.50	0.00	1,562.000	214.26
21.700	0.28	16.73	17.71	0.49	0.00	1,523.000	214.25
21.750	0.28	16.33	17.28	0.48	0.00	1,486.000	214.25
21.800	0.28	15.95	16.88	0.47	0.00	1,451.000	214.24
21.850	0.27	15.59	16.50	0.46	0.00	1,418.000	214.24
21.900	0.27	15.25	16.14	0.45	0.00	1,386.000	214.23
21.950	0.27	14.92	15.79	0.44	0.00	1,356.000	214.23
22.000	0.27	14.61	15.46	0.43	0.00	1,327.000	214.22
22.050	0.27	14.31	15.15	0.42	0.00	1,300.000	214.22
22.100	0.27	14.03	14.85	0.41	0.00	1,274.000	214.21
22.150	0.27	13.76	14.56	0.40	0.00	1,249.000	214.21
22.200	0.26	13.50	14.29	0.39	0.00	1,225.000	214.21
22.250	0.26	13.26	14.03	0.39	0.00	1,202.000	214.20
22.300	0.26	13.02	13.78	0.38	0.00	1,181.000	214.20
22.350	0.26	12.79	13.54	0.37	0.00	1,160.000	214.19
22.400	0.26	12.58	13.31	0.37	0.00	1,140.000	214.19
22.450	0.26	12.37	13.09	0.36	0.00	1,121.000	214.19
22.500	0.26	12.17	12.88	0.36	0.00	1,103.000	214.19
22.550	0.25	11.98	12.68	0.35	0.00	1,086.000	214.18
22.600	0.25	11.80	12.49	0.34	0.00	1,069.000	214.18
22.650	0.25	11.63	12.31	0.34	0.00	1,053.000	214.18
22.700	0.25	11.46	12.13	0.33	0.00	1,038.000	214.17
22.750	0.25	11.30	11.96	0.33	0.00	1,023.000	214.17
22.800	0.25	11.15	11.80	0.33	0.00	1,009.000	214.17
22.850	0.25	11.00	11.64	0.32	0.00	996.000	214.17
22.900	0.24	10.86	11.49	0.32	0.00	982.000	214.17
22.950	0.24	10.72	11.35	0.31	0.00	970.000	214.16
23.000	0.24	10.59	11.21	0.31	0.00	958.000	214.16
23.050	0.24	10.46	11.07	0.31	0.00	946.000	214.16
23.100	0.24	10.34	10.94	0.30	0.00	935.000	214.16
23.150	0.24	10.22	10.81	0.30	0.00	924.000	214.16
23.200	0.24	10.10	10.69	0.29	0.00	913.000	214.15
23.250	0.24	9.99	10.57	0.29	0.00	903.000	214.15
23.300	0.23	9.88	10.46	0.29	0.00	893.000	214.15
23.350	0.23	9.78	10.35	0.29	0.00	884.000	214.15
23.400	0.23	9.68	10.24	0.28	0.00	874.000	214.15
23.450	0.23	9.58	10.14	0.28	0.00	866.000	214.15
23.500	0.23	9.48	10.04	0.28	0.00	857.000	214.14
23.550	0.23	9.39	9.94	0.27	0.00	848.000	214.14
23.600	0.23	9.30	9.84	0.27	0.00	840.000	214.14
23.650	0.22	9.21	9.75	0.27	0.00	832.000	214.14
23.700	0.22	9.12	9.66	0.27	0.00	824.000	214.14
23.750	0.22	9.04	9.57	0.26	0.00	816.000	214.14

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1D (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
23.800	0.22	8.96	9.48	0.26	0.00	809.000	214.14
23.850	0.22	8.88	9.40	0.26	0.00	802.000	214.13
23.900	0.22	8.80	9.31	0.26	0.00	794.000	214.13
23.950	0.22	8.72	9.23	0.25	0.00	787.000	214.13
24.000	0.21	8.65	9.15	0.25	0.00	781.000	214.13

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1D (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1D (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
1.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
3.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
4.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
5.100	0.00	0.01	0.01	0.00	0.00	1.000	214.00
5.150	0.01	0.02	0.02	0.00	0.00	2.000	214.00
5.200	0.01	0.03	0.04	0.00	0.00	3.000	214.00
5.250	0.01	0.05	0.06	0.00	0.00	5.000	214.00
5.300	0.01	0.08	0.08	0.00	0.00	7.000	214.00
5.350	0.02	0.10	0.11	0.00	0.00	9.000	214.00
5.400	0.02	0.13	0.14	0.00	0.00	12.000	214.00
5.450	0.02	0.17	0.18	0.00	0.00	15.000	214.00
5.500	0.03	0.20	0.21	0.01	0.00	18.000	214.00
5.550	0.03	0.24	0.26	0.01	0.00	22.000	214.00
5.600	0.03	0.28	0.30	0.01	0.00	25.000	214.00
5.650	0.03	0.33	0.35	0.01	0.00	30.000	214.01
5.700	0.04	0.38	0.40	0.01	0.00	34.000	214.01
5.750	0.04	0.43	0.45	0.01	0.00	38.000	214.01
5.800	0.04	0.48	0.51	0.01	0.00	43.000	214.01
5.850	0.04	0.54	0.57	0.02	0.00	48.000	214.01
5.900	0.05	0.60	0.63	0.02	0.00	53.000	214.01
5.950	0.05	0.66	0.69	0.02	0.00	59.000	214.01
6.000	0.05	0.72	0.76	0.02	0.00	64.000	214.01
6.050	0.06	0.78	0.83	0.02	0.00	70.000	214.01
6.100	0.06	0.85	0.90	0.02	0.00	76.000	214.01
6.150	0.06	0.92	0.97	0.03	0.00	82.000	214.01

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) | Return Event: 25 years
Label: IB-1D (OUT) | Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
6.200	0.07	0.99	1.05	0.03	0.00	89.000	214.02
6.250	0.07	1.07	1.13	0.03	0.00	95.000	214.02
6.300	0.07	1.14	1.21	0.03	0.00	102.000	214.02
6.350	0.08	1.23	1.30	0.04	0.00	110.000	214.02
6.400	0.08	1.31	1.39	0.04	0.00	117.000	214.02
6.450	0.09	1.40	1.48	0.04	0.00	125.000	214.02
6.500	0.09	1.49	1.58	0.04	0.00	134.000	214.02
6.550	0.10	1.59	1.68	0.05	0.00	142.000	214.02
6.600	0.10	1.68	1.78	0.05	0.00	151.000	214.03
6.650	0.11	1.79	1.89	0.05	0.00	160.000	214.03
6.700	0.11	1.89	2.00	0.06	0.00	169.000	214.03
6.750	0.11	2.00	2.11	0.06	0.00	179.000	214.03
6.800	0.12	2.11	2.23	0.06	0.00	189.000	214.03
6.850	0.12	2.22	2.35	0.06	0.00	199.000	214.03
6.900	0.13	2.34	2.48	0.07	0.00	210.000	214.04
6.950	0.14	2.46	2.61	0.07	0.00	221.000	214.04
7.000	0.14	2.59	2.74	0.08	0.00	232.000	214.04
7.050	0.15	2.71	2.87	0.08	0.00	243.000	214.04
7.100	0.15	2.85	3.01	0.08	0.00	255.000	214.04
7.150	0.16	2.98	3.15	0.09	0.00	267.000	214.05
7.200	0.16	3.12	3.30	0.09	0.00	280.000	214.05
7.250	0.17	3.26	3.45	0.10	0.00	292.000	214.05
7.300	0.17	3.40	3.60	0.10	0.00	305.000	214.05
7.350	0.18	3.55	3.76	0.10	0.00	319.000	214.05
7.400	0.19	3.70	3.92	0.11	0.00	332.000	214.06
7.450	0.19	3.86	4.08	0.11	0.00	346.000	214.06
7.500	0.20	4.01	4.25	0.12	0.00	360.000	214.06
7.550	0.21	4.17	4.42	0.12	0.00	375.000	214.06
7.600	0.21	4.34	4.59	0.13	0.00	390.000	214.07
7.650	0.22	4.50	4.77	0.13	0.00	405.000	214.07
7.700	0.23	4.68	4.95	0.14	0.00	420.000	214.07
7.750	0.23	4.85	5.13	0.14	0.00	436.000	214.07
7.800	0.24	5.03	5.32	0.15	0.00	452.000	214.08
7.850	0.25	5.21	5.51	0.15	0.00	468.000	214.08
7.900	0.25	5.39	5.70	0.16	0.00	485.000	214.08
7.950	0.26	5.58	5.90	0.16	0.00	502.000	214.08
8.000	0.27	5.77	6.10	0.17	0.00	519.000	214.09
8.050	0.27	5.96	6.31	0.17	0.00	536.000	214.09
8.100	0.28	6.16	6.52	0.18	0.00	554.000	214.09
8.150	0.29	6.37	6.74	0.19	0.00	573.000	214.10
8.200	0.31	6.58	6.97	0.19	0.00	593.000	214.10
8.250	0.32	6.81	7.21	0.20	0.00	613.000	214.10
8.300	0.33	7.04	7.46	0.21	0.00	635.000	214.11
8.350	0.34	7.29	7.72	0.21	0.00	657.000	214.11
8.400	0.35	7.55	7.99	0.22	0.00	680.000	214.11
8.450	0.37	7.81	8.26	0.23	0.00	704.000	214.12

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) | Return Event: 25 years
Label: IB-1D (OUT) | Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
8.500	0.38	8.08	8.55	0.24	0.00	729.000	214.12
8.550	0.39	8.37	8.85	0.24	0.00	755.000	214.13
8.600	0.41	8.66	9.16	0.25	0.00	782.000	214.13
8.650	0.42	8.96	9.48	0.26	0.00	809.000	214.14
8.700	0.43	9.27	9.81	0.27	0.00	837.000	214.14
8.750	0.45	9.59	10.15	0.28	0.00	867.000	214.15
8.800	0.46	9.92	10.50	0.29	0.00	897.000	214.15
8.850	0.48	10.26	10.86	0.30	0.00	928.000	214.16
8.900	0.49	10.61	11.23	0.31	0.00	959.000	214.16
8.950	0.51	10.96	11.60	0.32	0.00	992.000	214.17
9.000	0.52	11.33	11.99	0.33	0.00	1,025.000	214.17
9.050	0.54	11.70	12.38	0.34	0.00	1,060.000	214.18
9.100	0.55	12.09	12.79	0.35	0.00	1,095.000	214.18
9.150	0.57	12.48	13.21	0.36	0.00	1,131.000	214.19
9.200	0.58	12.88	13.63	0.38	0.00	1,168.000	214.20
9.250	0.60	13.29	14.06	0.39	0.00	1,205.000	214.20
9.300	0.62	13.70	14.50	0.40	0.00	1,244.000	214.21
9.350	0.63	14.13	14.96	0.41	0.00	1,283.000	214.21
9.400	0.65	14.57	15.42	0.43	0.00	1,323.000	214.22
9.450	0.67	15.01	15.88	0.44	0.00	1,364.000	214.23
9.500	0.69	15.46	16.36	0.45	0.00	1,406.000	214.23
9.550	0.70	15.92	16.85	0.46	0.00	1,448.000	214.24
9.600	0.72	16.39	17.34	0.48	0.00	1,492.000	214.25
9.650	0.74	16.86	17.85	0.49	0.00	1,536.000	214.26
9.700	0.76	17.35	18.36	0.51	0.00	1,580.000	214.26
9.750	0.78	17.84	18.88	0.52	0.00	1,626.000	214.27
9.800	0.79	18.34	19.41	0.54	0.00	1,673.000	214.28
9.850	0.81	18.85	19.95	0.55	0.00	1,720.000	214.29
9.900	0.83	19.36	20.49	0.56	0.00	1,768.000	214.29
9.950	0.85	19.88	21.04	0.58	0.00	1,816.000	214.30
10.000	0.87	20.41	21.60	0.60	0.00	1,866.000	214.31
10.050	0.89	20.95	22.18	0.61	0.00	1,916.000	214.32
10.100	0.92	21.51	22.77	0.63	0.00	1,968.000	214.33
10.150	0.95	22.09	23.38	0.64	0.00	2,023.000	214.34
10.200	0.98	22.69	24.02	0.66	0.00	2,079.000	214.34
10.250	1.01	23.33	24.69	0.68	0.00	2,139.000	214.35
10.300	1.05	23.99	25.39	0.70	0.00	2,201.000	214.36
10.350	1.08	24.67	26.11	0.72	0.00	2,265.000	214.38
10.400	1.11	25.38	26.87	0.74	0.00	2,333.000	214.39
10.450	1.15	26.12	27.65	0.76	0.00	2,402.000	214.40
10.500	1.18	26.88	28.45	0.78	0.00	2,474.000	214.41
10.550	1.22	27.67	29.29	0.81	0.00	2,549.000	214.42
10.600	1.25	28.48	30.14	0.83	0.00	2,626.000	214.43
10.650	1.29	29.31	31.03	0.86	0.00	2,705.000	214.45
10.700	1.33	30.17	31.93	0.88	0.00	2,787.000	214.46
10.750	1.36	31.05	32.86	0.91	0.00	2,870.000	214.47

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1D (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
10.800	1.40	31.95	33.82	0.93	0.00	2,957.000	214.49
10.850	1.44	32.87	34.79	0.96	0.00	3,045.000	214.50
10.900	1.48	33.87	35.79	0.96	0.00	3,132.000	214.51
10.950	1.52	34.95	36.87	0.96	0.00	3,226.000	214.53
11.000	1.56	36.10	38.02	0.96	0.00	3,326.000	214.54
11.050	1.62	37.36	39.28	0.96	0.00	3,437.000	214.56
11.100	1.70	38.76	40.68	0.96	0.00	3,560.000	214.58
11.150	1.81	40.35	42.27	0.96	0.00	3,700.000	214.60
11.200	1.92	42.16	44.08	0.96	0.00	3,860.000	214.63
11.250	2.05	44.21	46.13	0.96	0.00	4,041.000	214.66
11.300	2.17	46.50	48.42	0.96	0.00	4,246.000	214.69
11.350	2.30	49.05	50.97	0.96	0.00	4,473.000	214.72
11.400	2.42	51.85	53.77	0.96	0.00	4,725.000	214.76
11.450	2.56	54.90	56.82	0.96	0.00	5,002.000	214.80
11.500	2.69	58.23	60.15	0.96	0.00	5,304.000	214.85
11.550	3.18	62.18	64.10	0.96	0.00	5,665.000	214.90
11.600	3.78	67.22	69.14	0.96	0.00	6,131.000	214.97
11.650	4.79	73.87	75.79	0.96	0.00	6,723.000	215.06
11.700	5.93	82.67	84.59	0.96	0.00	7,501.000	215.17
11.750	7.13	93.82	95.74	0.96	0.00	8,504.000	215.32
11.800	8.39	107.43	109.35	0.96	0.00	9,753.000	215.49
11.850	9.70	123.60	125.52	0.96	0.00	11,201.000	215.69
11.900	11.05	141.95	144.35	0.96	0.24	12,879.000	215.92
11.950	15.83	164.42	168.83	0.96	1.25	14,969.000	216.19
12.000	21.72	194.19	201.97	0.96	2.93	17,817.000	216.54
12.050	23.58	226.78	239.49	0.96	5.40	20,966.000	216.92
12.100	24.37	256.94	274.73	0.96	7.94	23,894.000	217.26
12.150	20.21	279.80	301.52	0.96	9.90	26,157.000	217.51
12.200	14.59	291.23	314.60	0.96	10.73	27,238.000	217.63
12.250	12.26	294.28	318.09	0.96	10.95	27,529.000	217.66
12.300	10.73	293.56	317.27	0.96	10.89	27,461.000	217.65
12.350	9.39	290.43	313.69	0.96	10.67	27,162.000	217.62
12.400	8.07	285.37	307.89	0.96	10.30	26,682.000	217.57
12.450	6.76	278.65	300.20	0.96	9.81	26,048.000	217.50
12.500	5.42	270.66	290.83	0.96	9.12	25,248.000	217.41
12.550	4.54	261.96	280.62	0.96	8.37	24,387.000	217.31
12.600	3.76	253.13	270.26	0.96	7.60	23,522.000	217.22
12.650	3.47	244.69	260.36	0.96	6.87	22,704.000	217.12
12.700	3.29	237.10	251.45	0.96	6.22	21,976.000	217.04
12.750	3.15	230.29	243.54	0.96	5.66	21,314.000	216.96
12.800	3.01	224.14	236.45	0.96	5.20	20,706.000	216.89
12.850	2.87	218.55	230.02	0.96	4.77	20,158.000	216.83
12.900	2.73	213.46	224.15	0.96	4.39	19,662.000	216.77
12.950	2.59	208.79	218.78	0.96	4.03	19,211.000	216.71
13.000	2.45	204.49	213.83	0.96	3.71	18,798.000	216.66
13.050	2.35	200.55	209.29	0.96	3.41	18,421.000	216.62

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
13.100	2.26	196.96	205.15	0.96	3.14	18,079.000	216.58
13.150	2.21	193.72	201.42	0.96	2.89	17,772.000	216.54
13.200	2.17	190.82	198.09	0.96	2.67	17,500.000	216.51
13.250	2.13	188.17	195.13	0.96	2.52	17,242.000	216.47
13.300	2.10	185.70	192.39	0.96	2.39	17,002.000	216.44
13.350	2.06	183.41	189.85	0.96	2.26	16,780.000	216.42
13.400	2.02	181.27	187.49	0.96	2.15	16,574.000	216.39
13.450	1.99	179.27	185.28	0.96	2.04	16,382.000	216.37
13.500	1.95	177.41	183.21	0.96	1.94	16,203.000	216.34
13.550	1.91	175.66	181.27	0.96	1.85	16,035.000	216.32
13.600	1.88	174.01	179.45	0.96	1.76	15,878.000	216.30
13.650	1.84	172.46	177.73	0.96	1.68	15,730.000	216.29
13.700	1.80	170.99	176.10	0.96	1.60	15,590.000	216.27
13.750	1.77	169.59	174.56	0.96	1.52	15,458.000	216.25
13.800	1.73	168.27	173.09	0.96	1.45	15,332.000	216.24
13.850	1.69	167.01	171.70	0.96	1.38	15,213.000	216.22
13.900	1.66	165.80	170.36	0.96	1.32	15,099.000	216.21
13.950	1.62	164.65	169.08	0.96	1.26	14,990.000	216.19
14.000	1.58	163.54	167.85	0.96	1.20	14,885.000	216.18
14.050	1.55	162.47	166.67	0.96	1.14	14,786.000	216.17
14.100	1.53	161.46	165.55	0.96	1.09	14,691.000	216.15
14.150	1.51	160.50	164.49	0.96	1.03	14,601.000	216.14
14.200	1.49	159.60	163.50	0.96	0.99	14,517.000	216.13
14.250	1.47	158.76	162.56	0.96	0.94	14,438.000	216.12
14.300	1.45	157.97	161.69	0.96	0.90	14,364.000	216.11
14.350	1.44	157.22	160.86	0.96	0.86	14,294.000	216.10
14.400	1.42	156.51	160.07	0.96	0.82	14,229.000	216.09
14.450	1.40	155.84	159.33	0.96	0.78	14,166.000	216.09
14.500	1.38	155.20	158.63	0.96	0.75	14,107.000	216.08
14.550	1.37	154.60	157.95	0.96	0.72	14,050.000	216.07
14.600	1.35	154.02	157.31	0.96	0.69	13,997.000	216.06
14.650	1.33	153.46	156.69	0.96	0.66	13,945.000	216.06
14.700	1.31	152.93	156.10	0.96	0.63	13,896.000	216.05
14.750	1.29	152.41	155.53	0.96	0.60	13,848.000	216.04
14.800	1.28	151.92	154.98	0.96	0.57	13,802.000	216.04
14.850	1.26	151.44	154.45	0.96	0.55	13,758.000	216.03
14.900	1.24	150.97	153.94	0.96	0.52	13,715.000	216.03
14.950	1.22	150.52	153.43	0.96	0.50	13,673.000	216.02
15.000	1.21	150.08	152.95	0.96	0.48	13,632.000	216.02
15.050	1.19	149.65	152.47	0.96	0.45	13,593.000	216.01
15.100	1.17	149.22	152.00	0.96	0.43	13,554.000	216.01
15.150	1.15	148.81	151.55	0.96	0.41	13,516.000	216.00
15.200	1.13	148.39	151.10	0.96	0.39	13,477.000	216.00
15.250	1.12	147.96	150.64	0.96	0.38	13,436.000	215.99
15.300	1.10	147.51	150.17	0.96	0.37	13,394.000	215.99
15.350	1.08	147.04	149.68	0.96	0.36	13,351.000	215.98

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1D (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
15.400	1.06	146.57	149.19	0.96	0.35	13,307.000	215.97
15.450	1.05	146.08	148.68	0.96	0.34	13,262.000	215.97
15.500	1.03	145.58	148.15	0.96	0.33	13,215.000	215.96
15.550	1.01	145.07	147.62	0.96	0.31	13,168.000	215.96
15.600	0.99	144.55	147.07	0.96	0.30	13,120.000	215.95
15.650	0.97	144.02	146.52	0.96	0.29	13,070.000	215.94
15.700	0.95	143.48	145.95	0.96	0.27	13,020.000	215.94
15.750	0.94	142.93	145.37	0.96	0.26	12,970.000	215.93
15.800	0.92	142.38	144.79	0.96	0.25	12,918.000	215.92
15.850	0.90	141.81	144.20	0.96	0.23	12,866.000	215.92
15.900	0.88	141.24	143.59	0.96	0.22	12,813.000	215.91
15.950	0.86	140.66	142.98	0.96	0.20	12,759.000	215.90
16.000	0.85	140.07	142.37	0.96	0.19	12,705.000	215.89
16.050	0.83	139.48	141.75	0.96	0.18	12,650.000	215.89
16.100	0.82	138.89	141.13	0.96	0.16	12,596.000	215.88
16.150	0.81	138.31	140.52	0.96	0.15	12,543.000	215.87
16.200	0.80	137.73	139.92	0.96	0.13	12,490.000	215.87
16.250	0.79	137.17	139.33	0.96	0.12	12,438.000	215.86
16.300	0.79	136.62	138.75	0.96	0.11	12,388.000	215.85
16.350	0.78	136.08	138.18	0.96	0.09	12,339.000	215.85
16.400	0.77	135.55	137.63	0.96	0.08	12,290.000	215.84
16.450	0.76	135.03	137.08	0.96	0.07	12,242.000	215.83
16.500	0.76	134.52	136.55	0.96	0.05	12,196.000	215.83
16.550	0.75	134.02	136.02	0.96	0.04	12,150.000	215.82
16.600	0.74	133.52	135.50	0.96	0.03	12,105.000	215.82
16.650	0.73	133.04	134.99	0.96	0.02	12,061.000	215.81
16.700	0.73	132.56	134.49	0.96	0.01	12,017.000	215.80
16.750	0.72	132.08	134.00	0.96	0.00	11,973.000	215.80
16.800	0.71	131.59	133.51	0.96	0.00	11,928.000	215.79
16.850	0.70	131.07	132.99	0.96	0.00	11,881.000	215.79
16.900	0.69	130.55	132.47	0.96	0.00	11,833.000	215.78
16.950	0.69	130.01	131.93	0.96	0.00	11,783.000	215.77
17.000	0.68	129.45	131.37	0.96	0.00	11,732.000	215.77
17.050	0.67	128.87	130.79	0.96	0.00	11,680.000	215.76
17.100	0.66	128.28	130.20	0.96	0.00	11,626.000	215.75
17.150	0.65	127.68	129.60	0.96	0.00	11,571.000	215.74
17.200	0.64	127.06	128.98	0.96	0.00	11,515.000	215.74
17.250	0.64	126.42	128.34	0.96	0.00	11,456.000	215.73
17.300	0.63	125.77	127.69	0.96	0.00	11,397.000	215.72
17.350	0.62	125.10	127.02	0.96	0.00	11,337.000	215.71
17.400	0.61	124.42	126.34	0.96	0.00	11,275.000	215.70
17.450	0.61	123.71	125.63	0.96	0.00	11,211.000	215.69
17.500	0.60	123.00	124.92	0.96	0.00	11,147.000	215.69
17.550	0.59	122.27	124.19	0.96	0.00	11,081.000	215.68
17.600	0.58	121.52	123.44	0.96	0.00	11,013.000	215.67
17.650	0.57	120.76	122.68	0.96	0.00	10,944.000	215.66

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1D (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
17.700	0.57	119.98	121.90	0.96	0.00	10,874.000	215.65
17.750	0.56	119.19	121.11	0.96	0.00	10,803.000	215.64
17.800	0.55	118.38	120.30	0.96	0.00	10,730.000	215.63
17.850	0.54	117.55	119.47	0.96	0.00	10,656.000	215.62
17.900	0.54	116.71	118.63	0.96	0.00	10,580.000	215.61
17.950	0.53	115.85	117.77	0.96	0.00	10,504.000	215.60
18.000	0.52	114.98	116.90	0.96	0.00	10,426.000	215.59
18.050	0.51	114.09	116.01	0.96	0.00	10,346.000	215.58
18.100	0.51	113.19	115.11	0.96	0.00	10,266.000	215.57
18.150	0.50	112.28	114.20	0.96	0.00	10,185.000	215.55
18.200	0.50	111.37	113.29	0.96	0.00	10,104.000	215.54
18.250	0.50	110.45	112.37	0.96	0.00	10,023.000	215.53
18.300	0.50	109.53	111.45	0.96	0.00	9,941.000	215.52
18.350	0.50	108.60	110.52	0.96	0.00	9,859.000	215.51
18.400	0.49	107.67	109.59	0.96	0.00	9,776.000	215.50
18.450	0.49	106.74	108.66	0.96	0.00	9,690.000	215.49
18.500	0.49	105.80	107.72	0.96	0.00	9,602.000	215.47
18.550	0.49	104.85	106.77	0.96	0.00	9,515.000	215.46
18.600	0.48	103.90	105.82	0.96	0.00	9,427.000	215.45
18.650	0.48	102.95	104.87	0.96	0.00	9,339.000	215.44
18.700	0.48	101.99	103.91	0.96	0.00	9,251.000	215.42
18.750	0.48	101.02	102.94	0.96	0.00	9,162.000	215.41
18.800	0.48	100.05	101.97	0.96	0.00	9,073.000	215.40
18.850	0.47	99.08	101.00	0.96	0.00	8,984.000	215.39
18.900	0.47	98.10	100.02	0.96	0.00	8,894.000	215.37
18.950	0.47	97.12	99.04	0.96	0.00	8,804.000	215.36
19.000	0.47	96.13	98.05	0.96	0.00	8,714.000	215.35
19.050	0.46	95.14	97.06	0.96	0.00	8,624.000	215.34
19.100	0.46	94.14	96.06	0.96	0.00	8,533.000	215.32
19.150	0.46	93.14	95.06	0.96	0.00	8,442.000	215.31
19.200	0.46	92.14	94.06	0.96	0.00	8,351.000	215.30
19.250	0.45	91.13	93.05	0.96	0.00	8,260.000	215.28
19.300	0.45	90.11	92.03	0.96	0.00	8,168.000	215.27
19.350	0.45	89.09	91.01	0.96	0.00	8,076.000	215.26
19.400	0.45	88.06	89.98	0.96	0.00	7,984.000	215.24
19.450	0.44	87.03	88.95	0.96	0.00	7,891.000	215.23
19.500	0.44	86.00	87.92	0.96	0.00	7,799.000	215.22
19.550	0.44	84.96	86.88	0.96	0.00	7,705.000	215.20
19.600	0.44	83.92	85.84	0.96	0.00	7,612.000	215.19
19.650	0.43	82.87	84.79	0.96	0.00	7,519.000	215.18
19.700	0.43	81.81	83.73	0.96	0.00	7,425.000	215.16
19.750	0.43	80.75	82.67	0.96	0.00	7,331.000	215.15
19.800	0.43	79.69	81.61	0.96	0.00	7,236.000	215.14
19.850	0.43	78.62	80.54	0.96	0.00	7,142.000	215.12
19.900	0.42	77.55	79.47	0.96	0.00	7,047.000	215.11
19.950	0.42	76.47	78.39	0.96	0.00	6,952.000	215.09

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1D (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
20.000	0.42	75.39	77.31	0.96	0.00	6,857.000	215.08
20.050	0.42	74.31	76.23	0.96	0.00	6,761.000	215.07
20.100	0.41	73.22	75.14	0.96	0.00	6,665.000	215.05
20.150	0.41	72.12	74.04	0.96	0.00	6,569.000	215.04
20.200	0.41	71.02	72.94	0.96	0.00	6,473.000	215.02
20.250	0.41	69.92	71.84	0.96	0.00	6,377.000	215.01
20.300	0.41	68.82	70.74	0.96	0.00	6,279.000	215.00
20.350	0.40	67.71	69.63	0.96	0.00	6,176.000	214.98
20.400	0.40	66.60	68.52	0.96	0.00	6,073.000	214.96
20.450	0.40	65.48	67.40	0.96	0.00	5,970.000	214.95
20.500	0.40	64.36	66.28	0.96	0.00	5,866.000	214.93
20.550	0.40	63.24	65.16	0.96	0.00	5,763.000	214.92
20.600	0.40	62.11	64.03	0.96	0.00	5,660.000	214.90
20.650	0.39	60.98	62.90	0.96	0.00	5,556.000	214.89
20.700	0.39	59.85	61.77	0.96	0.00	5,452.000	214.87
20.750	0.39	58.71	60.63	0.96	0.00	5,348.000	214.86
20.800	0.39	57.57	59.49	0.96	0.00	5,244.000	214.84
20.850	0.39	56.42	58.34	0.96	0.00	5,140.000	214.82
20.900	0.38	55.28	57.20	0.96	0.00	5,035.000	214.81
20.950	0.38	54.12	56.04	0.96	0.00	4,931.000	214.79
21.000	0.38	52.97	54.89	0.96	0.00	4,827.000	214.78
21.050	0.38	51.82	53.74	0.96	0.00	4,723.000	214.76
21.100	0.38	50.65	52.57	0.96	0.00	4,618.000	214.75
21.150	0.38	49.49	51.41	0.96	0.00	4,513.000	214.73
21.200	0.37	48.32	50.24	0.96	0.00	4,408.000	214.71
21.250	0.37	47.15	49.07	0.96	0.00	4,303.000	214.70
21.300	0.37	45.97	47.89	0.96	0.00	4,198.000	214.68
21.350	0.37	44.79	46.71	0.96	0.00	4,093.000	214.66
21.400	0.37	43.61	45.53	0.96	0.00	3,988.000	214.65
21.450	0.37	42.42	44.34	0.96	0.00	3,883.000	214.63
21.500	0.36	41.23	43.15	0.96	0.00	3,778.000	214.61
21.550	0.36	40.03	41.95	0.96	0.00	3,672.000	214.60
21.600	0.36	38.83	40.75	0.96	0.00	3,567.000	214.58
21.650	0.36	37.63	39.55	0.96	0.00	3,461.000	214.57
21.700	0.36	36.43	38.35	0.96	0.00	3,355.000	214.55
21.750	0.36	35.22	37.14	0.96	0.00	3,250.000	214.53
21.800	0.35	34.01	35.93	0.96	0.00	3,144.000	214.52
21.850	0.35	32.80	34.72	0.96	0.00	3,038.000	214.50
21.900	0.35	31.66	33.50	0.92	0.00	2,928.000	214.48
21.950	0.35	30.57	32.35	0.89	0.00	2,825.000	214.46
22.000	0.35	29.54	31.26	0.86	0.00	2,726.000	214.45
22.050	0.34	28.56	30.23	0.83	0.00	2,634.000	214.43
22.100	0.34	27.64	29.25	0.81	0.00	2,546.000	214.42
22.150	0.34	26.76	28.32	0.78	0.00	2,462.000	214.41
22.200	0.34	25.93	27.44	0.76	0.00	2,384.000	214.39
22.250	0.34	25.13	26.60	0.73	0.00	2,309.000	214.38

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1D (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
22.300	0.33	24.38	25.81	0.71	0.00	2,238.000	214.37
22.350	0.33	23.67	25.05	0.69	0.00	2,171.000	214.36
22.400	0.33	22.99	24.33	0.67	0.00	2,107.000	214.35
22.450	0.33	22.35	23.65	0.65	0.00	2,047.000	214.34
22.500	0.33	21.74	23.01	0.63	0.00	1,990.000	214.33
22.550	0.33	21.16	22.39	0.62	0.00	1,935.000	214.32
22.600	0.33	20.61	21.81	0.60	0.00	1,884.000	214.31
22.650	0.32	20.09	21.26	0.59	0.00	1,835.000	214.31
22.700	0.32	19.59	20.73	0.57	0.00	1,789.000	214.30
22.750	0.32	19.11	20.23	0.56	0.00	1,745.000	214.29
22.800	0.32	18.66	19.75	0.54	0.00	1,702.000	214.28
22.850	0.32	18.23	19.29	0.53	0.00	1,662.000	214.28
22.900	0.31	17.82	18.86	0.52	0.00	1,624.000	214.27
22.950	0.31	17.43	18.45	0.51	0.00	1,588.000	214.26
23.000	0.31	17.06	18.05	0.50	0.00	1,553.000	214.26
23.050	0.31	16.70	17.68	0.49	0.00	1,520.000	214.25
23.100	0.31	16.36	17.31	0.48	0.00	1,489.000	214.25
23.150	0.30	16.03	16.97	0.47	0.00	1,459.000	214.24
23.200	0.30	15.72	16.64	0.46	0.00	1,430.000	214.24
23.250	0.30	15.43	16.33	0.45	0.00	1,403.000	214.23
23.300	0.30	15.15	16.03	0.44	0.00	1,377.000	214.23
23.350	0.30	14.87	15.74	0.43	0.00	1,352.000	214.23
23.400	0.30	14.62	15.47	0.43	0.00	1,328.000	214.22
23.450	0.30	14.37	15.21	0.42	0.00	1,305.000	214.22
23.500	0.29	14.13	14.96	0.41	0.00	1,283.000	214.21
23.550	0.29	13.90	14.72	0.41	0.00	1,262.000	214.21
23.600	0.29	13.69	14.48	0.40	0.00	1,242.000	214.21
23.650	0.29	13.47	14.26	0.39	0.00	1,223.000	214.20
23.700	0.29	13.27	14.05	0.39	0.00	1,204.000	214.20
23.750	0.28	13.08	13.84	0.38	0.00	1,186.000	214.20
23.800	0.28	12.89	13.65	0.38	0.00	1,169.000	214.20
23.850	0.28	12.71	13.45	0.37	0.00	1,153.000	214.19
23.900	0.28	12.54	13.27	0.37	0.00	1,136.000	214.19
23.950	0.28	12.37	13.09	0.36	0.00	1,121.000	214.19
24.000	0.28	12.21	12.92	0.36	0.00	1,106.000	214.19

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1D (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1D (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
0.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
1.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1D (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
2.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.900	0.00	0.00	0.00	0.00	0.00	0.000	214.00
2.950	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.000	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.050	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.100	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.150	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.200	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.250	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.300	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.350	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.400	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.450	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.500	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.550	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.600	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.650	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.700	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.750	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.800	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.850	0.00	0.00	0.00	0.00	0.00	0.000	214.00
3.900	0.01	0.01	0.01	0.00	0.00	1.000	214.00
3.950	0.01	0.03	0.03	0.00	0.00	2.000	214.00
4.000	0.01	0.05	0.05	0.00	0.00	4.000	214.00
4.050	0.02	0.07	0.08	0.00	0.00	7.000	214.00
4.100	0.02	0.11	0.11	0.00	0.00	10.000	214.00
4.150	0.03	0.15	0.16	0.00	0.00	13.000	214.00
4.200	0.03	0.19	0.20	0.01	0.00	17.000	214.00
4.250	0.03	0.24	0.25	0.01	0.00	22.000	214.00
4.300	0.04	0.29	0.31	0.01	0.00	26.000	214.00
4.350	0.04	0.35	0.37	0.01	0.00	32.000	214.01
4.400	0.05	0.42	0.44	0.01	0.00	37.000	214.01
4.450	0.05	0.49	0.51	0.01	0.00	43.000	214.01
4.500	0.05	0.56	0.59	0.02	0.00	50.000	214.01
4.550	0.06	0.63	0.67	0.02	0.00	57.000	214.01
4.600	0.06	0.71	0.76	0.02	0.00	64.000	214.01
4.650	0.07	0.80	0.84	0.02	0.00	71.000	214.01

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1D (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
4.700	0.07	0.88	0.94	0.03	0.00	79.000	214.01
4.750	0.08	0.97	1.03	0.03	0.00	87.000	214.01
4.800	0.08	1.07	1.13	0.03	0.00	96.000	214.02
4.850	0.08	1.16	1.23	0.03	0.00	104.000	214.02
4.900	0.09	1.26	1.34	0.04	0.00	113.000	214.02
4.950	0.09	1.37	1.45	0.04	0.00	122.000	214.02
5.000	0.10	1.47	1.56	0.04	0.00	132.000	214.02
5.050	0.10	1.58	1.67	0.05	0.00	141.000	214.02
5.100	0.11	1.69	1.79	0.05	0.00	151.000	214.03
5.150	0.11	1.80	1.90	0.05	0.00	161.000	214.03
5.200	0.12	1.91	2.03	0.06	0.00	172.000	214.03
5.250	0.12	2.03	2.15	0.06	0.00	182.000	214.03
5.300	0.12	2.15	2.28	0.06	0.00	193.000	214.03
5.350	0.13	2.27	2.40	0.07	0.00	204.000	214.03
5.400	0.13	2.39	2.53	0.07	0.00	215.000	214.04
5.450	0.14	2.52	2.67	0.07	0.00	226.000	214.04
5.500	0.14	2.65	2.80	0.08	0.00	237.000	214.04
5.550	0.15	2.77	2.94	0.08	0.00	249.000	214.04
5.600	0.15	2.90	3.07	0.08	0.00	261.000	214.04
5.650	0.16	3.04	3.21	0.09	0.00	272.000	214.05
5.700	0.16	3.17	3.35	0.09	0.00	284.000	214.05
5.750	0.17	3.30	3.50	0.10	0.00	297.000	214.05
5.800	0.17	3.44	3.64	0.10	0.00	309.000	214.05
5.850	0.18	3.58	3.79	0.10	0.00	321.000	214.05
5.900	0.18	3.72	3.93	0.11	0.00	334.000	214.06
5.950	0.19	3.86	4.08	0.11	0.00	346.000	214.06
6.000	0.19	4.00	4.23	0.12	0.00	359.000	214.06
6.050	0.20	4.14	4.38	0.12	0.00	372.000	214.06
6.100	0.20	4.29	4.54	0.13	0.00	385.000	214.07
6.150	0.21	4.44	4.70	0.13	0.00	399.000	214.07
6.200	0.22	4.60	4.86	0.13	0.00	413.000	214.07
6.250	0.22	4.76	5.03	0.14	0.00	428.000	214.07
6.300	0.23	4.92	5.21	0.14	0.00	443.000	214.07
6.350	0.24	5.10	5.39	0.15	0.00	458.000	214.08
6.400	0.25	5.27	5.58	0.15	0.00	474.000	214.08
6.450	0.25	5.45	5.77	0.16	0.00	490.000	214.08
6.500	0.26	5.64	5.97	0.16	0.00	507.000	214.09
6.550	0.27	5.83	6.17	0.17	0.00	525.000	214.09
6.600	0.28	6.03	6.38	0.18	0.00	543.000	214.09
6.650	0.29	6.23	6.59	0.18	0.00	561.000	214.09
6.700	0.30	6.44	6.81	0.19	0.00	580.000	214.10
6.750	0.30	6.65	7.04	0.19	0.00	599.000	214.10
6.800	0.31	6.87	7.27	0.20	0.00	619.000	214.10
6.850	0.32	7.09	7.50	0.21	0.00	639.000	214.11
6.900	0.33	7.32	7.74	0.21	0.00	660.000	214.11
6.950	0.34	7.55	7.99	0.22	0.00	681.000	214.11

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1D (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
7.000	0.35	7.79	8.24	0.23	0.00	702.000	214.12
7.050	0.36	8.03	8.50	0.23	0.00	724.000	214.12
7.100	0.37	8.27	8.76	0.24	0.00	747.000	214.13
7.150	0.38	8.53	9.02	0.25	0.00	770.000	214.13
7.200	0.39	8.78	9.30	0.26	0.00	793.000	214.13
7.250	0.40	9.04	9.57	0.26	0.00	817.000	214.14
7.300	0.41	9.31	9.85	0.27	0.00	841.000	214.14
7.350	0.42	9.58	10.14	0.28	0.00	866.000	214.15
7.400	0.43	9.85	10.43	0.29	0.00	891.000	214.15
7.450	0.44	10.13	10.72	0.30	0.00	916.000	214.15
7.500	0.45	10.42	11.02	0.30	0.00	942.000	214.16
7.550	0.46	10.71	11.33	0.31	0.00	969.000	214.16
7.600	0.47	11.00	11.64	0.32	0.00	995.000	214.17
7.650	0.48	11.29	11.95	0.33	0.00	1,022.000	214.17
7.700	0.50	11.60	12.27	0.34	0.00	1,050.000	214.18
7.750	0.51	11.90	12.60	0.35	0.00	1,078.000	214.18
7.800	0.52	12.21	12.93	0.36	0.00	1,107.000	214.19
7.850	0.53	12.53	13.26	0.37	0.00	1,135.000	214.19
7.900	0.54	12.85	13.60	0.37	0.00	1,165.000	214.20
7.950	0.55	13.17	13.94	0.38	0.00	1,194.000	214.20
8.000	0.56	13.50	14.28	0.39	0.00	1,224.000	214.21
8.050	0.58	13.83	14.63	0.40	0.00	1,255.000	214.21
8.100	0.59	14.17	15.00	0.41	0.00	1,287.000	214.22
8.150	0.61	14.53	15.37	0.42	0.00	1,320.000	214.22
8.200	0.63	14.90	15.77	0.43	0.00	1,354.000	214.23
8.250	0.65	15.29	16.18	0.45	0.00	1,390.000	214.23
8.300	0.67	15.69	16.61	0.46	0.00	1,427.000	214.24
8.350	0.69	16.12	17.06	0.47	0.00	1,466.000	214.24
8.400	0.71	16.56	17.52	0.48	0.00	1,507.000	214.25
8.450	0.73	17.01	18.00	0.50	0.00	1,549.000	214.26
8.500	0.76	17.48	18.50	0.51	0.00	1,593.000	214.27
8.550	0.78	17.96	19.01	0.52	0.00	1,638.000	214.27
8.600	0.80	18.46	19.54	0.54	0.00	1,684.000	214.28
8.650	0.82	18.98	20.09	0.55	0.00	1,732.000	214.29
8.700	0.85	19.51	20.65	0.57	0.00	1,781.000	214.30
8.750	0.87	20.05	21.22	0.59	0.00	1,832.000	214.30
8.800	0.89	20.61	21.81	0.60	0.00	1,884.000	214.31
8.850	0.92	21.18	22.41	0.62	0.00	1,937.000	214.32
8.900	0.94	21.76	23.03	0.64	0.00	1,992.000	214.33
8.950	0.96	22.36	23.67	0.65	0.00	2,048.000	214.34
9.000	0.99	22.97	24.31	0.67	0.00	2,106.000	214.35
9.050	1.01	23.60	24.97	0.69	0.00	2,164.000	214.36
9.100	1.04	24.23	25.65	0.71	0.00	2,224.000	214.37
9.150	1.06	24.88	26.33	0.73	0.00	2,285.000	214.38
9.200	1.09	25.54	27.03	0.75	0.00	2,348.000	214.39
9.250	1.11	26.22	27.75	0.77	0.00	2,411.000	214.40

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out)   Return Event: 100 years
Label: IB-1D (OUT)   Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
9.300	1.14	26.90	28.47	0.79	0.00	2,476.000	214.41
9.350	1.17	27.60	29.21	0.81	0.00	2,542.000	214.42
9.400	1.19	28.30	29.96	0.83	0.00	2,609.000	214.43
9.450	1.22	29.02	30.72	0.85	0.00	2,677.000	214.44
9.500	1.25	29.75	31.49	0.87	0.00	2,747.000	214.45
9.550	1.27	30.49	32.27	0.89	0.00	2,817.000	214.46
9.600	1.30	31.25	33.07	0.91	0.00	2,889.000	214.47
9.650	1.33	32.01	33.88	0.93	0.00	2,962.000	214.49
9.700	1.36	32.78	34.69	0.96	0.00	3,036.000	214.50
9.750	1.38	33.60	35.52	0.96	0.00	3,108.000	214.51
9.800	1.41	34.48	36.40	0.96	0.00	3,185.000	214.52
9.850	1.44	35.41	37.33	0.96	0.00	3,266.000	214.53
9.900	1.47	36.40	38.32	0.96	0.00	3,353.000	214.55
9.950	1.50	37.45	39.37	0.96	0.00	3,445.000	214.56
10.000	1.53	38.55	40.47	0.96	0.00	3,542.000	214.58
10.050	1.56	39.72	41.64	0.96	0.00	3,644.000	214.59
10.100	1.60	40.96	42.88	0.96	0.00	3,754.000	214.61
10.150	1.65	42.29	44.21	0.96	0.00	3,872.000	214.63
10.200	1.70	43.72	45.64	0.96	0.00	3,998.000	214.65
10.250	1.75	45.25	47.17	0.96	0.00	4,134.000	214.67
10.300	1.80	46.88	48.80	0.96	0.00	4,279.000	214.69
10.350	1.85	48.61	50.53	0.96	0.00	4,434.000	214.72
10.400	1.90	50.45	52.37	0.96	0.00	4,599.000	214.74
10.450	1.96	52.39	54.31	0.96	0.00	4,774.000	214.77
10.500	2.01	54.43	56.35	0.96	0.00	4,959.000	214.80
10.550	2.06	56.59	58.51	0.96	0.00	5,155.000	214.83
10.600	2.12	58.85	60.77	0.96	0.00	5,361.000	214.86
10.650	2.17	61.22	63.14	0.96	0.00	5,578.000	214.89
10.700	2.23	63.70	65.62	0.96	0.00	5,806.000	214.93
10.750	2.28	66.30	68.22	0.96	0.00	6,045.000	214.96
10.800	2.34	69.00	70.92	0.96	0.00	6,296.000	215.00
10.850	2.40	71.82	73.74	0.96	0.00	6,543.000	215.03
10.900	2.45	74.74	76.66	0.96	0.00	6,799.000	215.07
10.950	2.51	77.79	79.71	0.96	0.00	7,068.000	215.11
11.000	2.57	80.94	82.86	0.96	0.00	7,347.000	215.15
11.050	2.67	84.26	86.18	0.96	0.00	7,643.000	215.20
11.100	2.79	87.80	89.72	0.96	0.00	7,960.000	215.24
11.150	2.96	91.63	93.55	0.96	0.00	8,305.000	215.29
11.200	3.14	95.80	97.72	0.96	0.00	8,685.000	215.34
11.250	3.33	100.35	102.27	0.96	0.00	9,100.000	215.40
11.300	3.52	105.28	107.20	0.96	0.00	9,555.000	215.47
11.350	3.71	110.59	112.51	0.96	0.00	10,035.000	215.53
11.400	3.91	116.29	118.21	0.96	0.00	10,543.000	215.60
11.450	4.11	122.39	124.31	0.96	0.00	11,091.000	215.68
11.500	4.31	128.88	130.80	0.96	0.00	11,681.000	215.76
11.550	5.08	136.16	138.27	0.96	0.09	12,346.000	215.85

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1D (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
11.600	6.02	144.74	147.26	0.96	0.30	13,137.000	215.95
11.650	7.58	154.94	158.34	0.96	0.74	14,083.000	216.07
11.700	9.35	167.17	171.87	0.96	1.39	15,228.000	216.22
11.750	11.18	181.46	187.70	0.96	2.16	16,593.000	216.39
11.800	13.08	197.46	205.73	0.96	3.18	18,127.000	216.58
11.850	15.02	214.68	225.56	0.96	4.48	19,781.000	216.78
11.900	17.01	233.04	246.71	0.96	5.87	21,587.000	216.99
11.950	24.17	256.51	274.22	0.96	7.90	23,852.000	217.25
12.000	32.91	290.34	313.59	0.96	10.66	27,154.000	217.62
12.050	35.45	329.83	358.70	0.96	13.48	30,979.000	218.02
12.100	36.37	368.38	401.66	0.96	15.68	34,630.000	218.39
12.150	30.01	398.50	434.76	0.96	17.17	37,467.000	218.67
12.200	21.58	412.57	450.10	0.96	17.80	38,789.000	218.80
12.250	18.09	414.55	452.25	0.96	17.89	38,975.000	218.82
12.300	15.79	411.04	448.43	0.96	17.73	38,644.000	218.79
12.350	13.79	403.89	440.63	0.96	17.41	37,971.000	218.72
12.400	11.84	393.69	429.52	0.96	16.95	37,019.000	218.63
12.450	9.90	380.76	415.43	0.96	16.37	35,825.000	218.51
12.500	7.93	365.62	398.59	0.96	15.52	34,365.000	218.37
12.550	6.64	349.11	380.19	0.96	14.58	32,788.000	218.21
12.600	5.50	332.12	361.25	0.96	13.61	31,191.000	218.05
12.650	5.07	315.77	342.68	0.96	12.50	29,607.000	217.88
12.700	4.81	300.88	325.65	0.96	11.42	28,162.000	217.73
12.750	4.60	287.46	310.29	0.96	10.45	26,880.000	217.59
12.800	4.39	275.46	296.45	0.96	9.54	25,727.000	217.46
12.850	4.19	264.87	284.03	0.96	8.62	24,674.000	217.35
12.900	3.98	255.50	273.04	0.96	7.81	23,753.000	217.24
12.950	3.78	247.16	263.25	0.96	7.09	22,942.000	217.15
13.000	3.57	239.70	254.50	0.96	6.44	22,225.000	217.07
13.050	3.42	233.03	246.69	0.96	5.87	21,586.000	216.99
13.100	3.29	226.99	239.74	0.96	5.41	20,987.000	216.92
13.150	3.21	221.57	233.49	0.96	5.00	20,453.000	216.86
13.200	3.16	216.74	227.94	0.96	4.64	19,982.000	216.81
13.250	3.10	212.46	223.00	0.96	4.31	19,565.000	216.76
13.300	3.05	208.64	218.61	0.96	4.02	19,197.000	216.71
13.350	3.00	205.24	214.69	0.96	3.77	18,869.000	216.67
13.400	2.94	202.19	211.18	0.96	3.53	18,577.000	216.64
13.450	2.89	199.45	208.02	0.96	3.33	18,316.000	216.61
13.500	2.84	196.97	205.17	0.96	3.14	18,081.000	216.58
13.550	2.78	194.73	202.59	0.96	2.97	17,868.000	216.55
13.600	2.73	192.69	200.24	0.96	2.82	17,676.000	216.53
13.650	2.68	190.83	198.10	0.96	2.67	17,500.000	216.51
13.700	2.62	189.07	196.12	0.96	2.57	17,330.000	216.48
13.750	2.57	187.38	194.26	0.96	2.48	17,166.000	216.46
13.800	2.51	185.76	192.46	0.96	2.39	17,009.000	216.45
13.850	2.46	184.20	190.73	0.96	2.31	16,857.000	216.43

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1D (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
13.900	2.41	182.69	189.07	0.96	2.23	16,712.000	216.41
13.950	2.35	181.24	187.45	0.96	2.15	16,571.000	216.39
14.000	2.30	179.82	185.89	0.96	2.07	16,435.000	216.37
14.050	2.25	178.46	184.38	0.96	2.00	16,304.000	216.36
14.100	2.21	177.15	182.93	0.96	1.93	16,178.000	216.34
14.150	2.18	175.90	181.55	0.96	1.86	16,059.000	216.33
14.200	2.16	174.73	180.25	0.96	1.80	15,946.000	216.31
14.250	2.13	173.62	179.02	0.96	1.74	15,841.000	216.30
14.300	2.11	172.58	177.86	0.96	1.68	15,741.000	216.29
14.350	2.08	171.58	176.76	0.96	1.63	15,647.000	216.27
14.400	2.06	170.64	175.72	0.96	1.58	15,557.000	216.26
14.450	2.03	169.75	174.73	0.96	1.53	15,472.000	216.25
14.500	2.00	168.89	173.78	0.96	1.49	15,391.000	216.24
14.550	1.98	168.07	172.87	0.96	1.44	15,313.000	216.23
14.600	1.95	167.28	172.00	0.96	1.40	15,238.000	216.22
14.650	1.93	166.52	171.16	0.96	1.36	15,167.000	216.21
14.700	1.90	165.79	170.35	0.96	1.32	15,098.000	216.21
14.750	1.87	165.08	169.57	0.96	1.28	15,031.000	216.20
14.800	1.85	164.40	168.81	0.96	1.24	14,967.000	216.19
14.850	1.82	163.73	168.07	0.96	1.21	14,904.000	216.18
14.900	1.80	163.09	167.35	0.96	1.17	14,843.000	216.17
14.950	1.77	162.45	166.65	0.96	1.14	14,784.000	216.17
15.000	1.75	161.84	165.97	0.96	1.11	14,726.000	216.16
15.050	1.72	161.23	165.30	0.96	1.07	14,669.000	216.15
15.100	1.69	160.64	164.64	0.96	1.04	14,614.000	216.14
15.150	1.67	160.06	164.00	0.96	1.01	14,559.000	216.14
15.200	1.64	159.48	163.37	0.96	0.98	14,506.000	216.13
15.250	1.62	158.92	162.74	0.96	0.95	14,453.000	216.12
15.300	1.59	158.36	162.12	0.96	0.92	14,401.000	216.12
15.350	1.56	157.81	161.52	0.96	0.89	14,350.000	216.11
15.400	1.54	157.27	160.91	0.96	0.86	14,299.000	216.10
15.450	1.51	156.73	160.32	0.96	0.83	14,249.000	216.10
15.500	1.48	156.20	159.73	0.96	0.80	14,200.000	216.09
15.550	1.46	155.67	159.14	0.96	0.78	14,150.000	216.08
15.600	1.43	155.15	158.56	0.96	0.75	14,102.000	216.08
15.650	1.41	154.63	157.99	0.96	0.72	14,054.000	216.07
15.700	1.38	154.11	157.42	0.96	0.69	14,006.000	216.06
15.750	1.35	153.60	156.85	0.96	0.66	13,958.000	216.06
15.800	1.33	153.09	156.28	0.96	0.64	13,910.000	216.05
15.850	1.30	152.58	155.72	0.96	0.61	13,863.000	216.05
15.900	1.27	152.07	155.16	0.96	0.58	13,816.000	216.04
15.950	1.25	151.56	154.60	0.96	0.56	13,770.000	216.03
16.000	1.22	151.06	154.04	0.96	0.53	13,723.000	216.03
16.050	1.20	150.57	153.49	0.96	0.50	13,678.000	216.02
16.100	1.19	150.09	152.96	0.96	0.48	13,633.000	216.02
16.150	1.17	149.62	152.44	0.96	0.45	13,590.000	216.01

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1D (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
16.200	1.16	149.18	151.95	0.96	0.43	13,549.000	216.01
16.250	1.15	148.75	151.48	0.96	0.40	13,510.000	216.00
16.300	1.14	148.33	151.04	0.96	0.39	13,471.000	216.00
16.350	1.12	147.91	150.59	0.96	0.38	13,432.000	215.99
16.400	1.11	147.48	150.15	0.96	0.37	13,392.000	215.99
16.450	1.10	147.05	149.70	0.96	0.36	13,352.000	215.98
16.500	1.09	146.62	149.25	0.96	0.35	13,312.000	215.97
16.550	1.08	146.20	148.80	0.96	0.34	13,272.000	215.97
16.600	1.07	145.76	148.34	0.96	0.33	13,232.000	215.96
16.650	1.06	145.33	147.88	0.96	0.32	13,191.000	215.96
16.700	1.05	144.89	147.43	0.96	0.31	13,151.000	215.95
16.750	1.03	144.46	146.97	0.96	0.30	13,111.000	215.95
16.800	1.02	144.02	146.51	0.96	0.29	13,070.000	215.94
16.850	1.01	143.58	146.05	0.96	0.28	13,029.000	215.94
16.900	1.00	143.14	145.59	0.96	0.27	12,989.000	215.93
16.950	0.99	142.70	145.13	0.96	0.25	12,948.000	215.93
17.000	0.98	142.26	144.66	0.96	0.24	12,907.000	215.92
17.050	0.97	141.81	144.20	0.96	0.23	12,866.000	215.92
17.100	0.96	141.37	143.73	0.96	0.22	12,825.000	215.91
17.150	0.94	140.92	143.27	0.96	0.21	12,784.000	215.91
17.200	0.93	140.48	142.80	0.96	0.20	12,743.000	215.90
17.250	0.92	140.03	142.33	0.96	0.19	12,701.000	215.89
17.300	0.91	139.58	141.86	0.96	0.18	12,660.000	215.89
17.350	0.90	139.13	141.39	0.96	0.17	12,619.000	215.88
17.400	0.88	138.68	140.91	0.96	0.16	12,577.000	215.88
17.450	0.87	138.23	140.44	0.96	0.15	12,536.000	215.87
17.500	0.86	137.78	139.97	0.96	0.13	12,494.000	215.87
17.550	0.85	137.33	139.50	0.96	0.12	12,453.000	215.86
17.600	0.84	136.88	139.02	0.96	0.11	12,411.000	215.86
17.650	0.83	136.42	138.54	0.96	0.10	12,370.000	215.85
17.700	0.82	135.97	138.07	0.96	0.09	12,328.000	215.84
17.750	0.81	135.51	137.59	0.96	0.08	12,287.000	215.84
17.800	0.79	135.06	137.11	0.96	0.07	12,245.000	215.83
17.850	0.78	134.60	136.63	0.96	0.06	12,203.000	215.83
17.900	0.77	134.15	136.16	0.96	0.05	12,162.000	215.82
17.950	0.76	133.69	135.68	0.96	0.03	12,120.000	215.82
18.000	0.75	133.23	135.20	0.96	0.02	12,078.000	215.81
18.050	0.74	132.78	134.72	0.96	0.01	12,037.000	215.81
18.100	0.73	132.32	134.25	0.96	0.00	11,996.000	215.80
18.150	0.73	131.86	133.78	0.96	0.00	11,953.000	215.79
18.200	0.73	131.40	133.32	0.96	0.00	11,911.000	215.79
18.250	0.72	130.92	132.84	0.96	0.00	11,867.000	215.78
18.300	0.72	130.44	132.36	0.96	0.00	11,823.000	215.78
18.350	0.71	129.95	131.87	0.96	0.00	11,779.000	215.77
18.400	0.71	129.46	131.38	0.96	0.00	11,733.000	215.77
18.450	0.71	128.96	130.88	0.96	0.00	11,688.000	215.76

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) | Return Event: 100 years

Label: IB-1D (OUT) | Storm Event: 100 year

Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
18.500	0.70	128.45	130.37	0.96	0.00	11,641.000	215.75
18.550	0.70	127.93	129.85	0.96	0.00	11,594.000	215.75
18.600	0.70	127.41	129.33	0.96	0.00	11,547.000	215.74
18.650	0.69	126.89	128.81	0.96	0.00	11,499.000	215.73
18.700	0.69	126.35	128.27	0.96	0.00	11,450.000	215.73
18.750	0.69	125.81	127.73	0.96	0.00	11,401.000	215.72
18.800	0.68	125.26	127.18	0.96	0.00	11,351.000	215.71
18.850	0.68	124.70	126.62	0.96	0.00	11,301.000	215.71
18.900	0.68	124.14	126.06	0.96	0.00	11,250.000	215.70
18.950	0.67	123.57	125.49	0.96	0.00	11,198.000	215.69
19.000	0.67	122.99	124.91	0.96	0.00	11,146.000	215.69
19.050	0.67	122.41	124.33	0.96	0.00	11,093.000	215.68
19.100	0.66	121.82	123.74	0.96	0.00	11,040.000	215.67
19.150	0.66	121.22	123.14	0.96	0.00	10,986.000	215.66
19.200	0.66	120.62	122.54	0.96	0.00	10,932.000	215.66
19.250	0.65	120.01	121.93	0.96	0.00	10,877.000	215.65
19.300	0.65	119.39	121.31	0.96	0.00	10,821.000	215.64
19.350	0.65	118.77	120.69	0.96	0.00	10,765.000	215.63
19.400	0.64	118.13	120.05	0.96	0.00	10,708.000	215.63
19.450	0.64	117.50	119.42	0.96	0.00	10,651.000	215.62
19.500	0.64	116.85	118.77	0.96	0.00	10,593.000	215.61
19.550	0.63	116.20	118.12	0.96	0.00	10,535.000	215.60
19.600	0.63	115.54	117.46	0.96	0.00	10,476.000	215.59
19.650	0.63	114.88	116.80	0.96	0.00	10,417.000	215.59
19.700	0.62	114.21	116.13	0.96	0.00	10,357.000	215.58
19.750	0.62	113.53	115.45	0.96	0.00	10,296.000	215.57
19.800	0.62	112.84	114.76	0.96	0.00	10,235.000	215.56
19.850	0.61	112.15	114.07	0.96	0.00	10,174.000	215.55
19.900	0.61	111.45	113.37	0.96	0.00	10,112.000	215.54
19.950	0.60	110.74	112.66	0.96	0.00	10,049.000	215.54
20.000	0.60	110.03	111.95	0.96	0.00	9,986.000	215.53
20.050	0.60	109.31	111.23	0.96	0.00	9,922.000	215.52
20.100	0.59	108.58	110.50	0.96	0.00	9,858.000	215.51
20.150	0.59	107.85	109.77	0.96	0.00	9,793.000	215.50
20.200	0.59	107.12	109.04	0.96	0.00	9,725.000	215.49
20.250	0.59	106.38	108.30	0.96	0.00	9,656.000	215.48
20.300	0.58	105.63	107.55	0.96	0.00	9,587.000	215.47
20.350	0.58	104.88	106.80	0.96	0.00	9,517.000	215.46
20.400	0.58	104.12	106.04	0.96	0.00	9,447.000	215.45
20.450	0.58	103.36	105.28	0.96	0.00	9,377.000	215.44
20.500	0.58	102.59	104.51	0.96	0.00	9,306.000	215.43
20.550	0.57	101.82	103.74	0.96	0.00	9,235.000	215.42
20.600	0.57	101.04	102.96	0.96	0.00	9,164.000	215.41
20.650	0.57	100.26	102.18	0.96	0.00	9,092.000	215.40
20.700	0.56	99.47	101.39	0.96	0.00	9,019.000	215.39
20.750	0.56	98.67	100.59	0.96	0.00	8,946.000	215.38

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1D (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
20.800	0.56	97.87	99.79	0.96	0.00	8,873.000	215.37
20.850	0.56	97.07	98.99	0.96	0.00	8,800.000	215.36
20.900	0.55	96.26	98.18	0.96	0.00	8,726.000	215.35
20.950	0.55	95.45	97.37	0.96	0.00	8,652.000	215.34
21.000	0.55	94.63	96.55	0.96	0.00	8,578.000	215.33
21.050	0.55	93.81	95.73	0.96	0.00	8,503.000	215.32
21.100	0.54	92.98	94.90	0.96	0.00	8,428.000	215.31
21.150	0.54	92.15	94.07	0.96	0.00	8,352.000	215.30
21.200	0.54	91.31	93.23	0.96	0.00	8,276.000	215.29
21.250	0.54	90.46	92.38	0.96	0.00	8,200.000	215.28
21.300	0.53	89.61	91.53	0.96	0.00	8,123.000	215.26
21.350	0.53	88.76	90.68	0.96	0.00	8,046.000	215.25
21.400	0.53	87.90	89.82	0.96	0.00	7,969.000	215.24
21.450	0.53	87.03	88.95	0.96	0.00	7,891.000	215.23
21.500	0.52	86.16	88.08	0.96	0.00	7,813.000	215.22
21.550	0.52	85.28	87.20	0.96	0.00	7,734.000	215.21
21.600	0.52	84.40	86.32	0.96	0.00	7,656.000	215.20
21.650	0.52	83.52	85.44	0.96	0.00	7,577.000	215.19
21.700	0.51	82.63	84.55	0.96	0.00	7,497.000	215.17
21.750	0.51	81.73	83.65	0.96	0.00	7,417.000	215.16
21.800	0.51	80.83	82.75	0.96	0.00	7,337.000	215.15
21.850	0.51	79.93	81.85	0.96	0.00	7,257.000	215.14
21.900	0.50	79.02	80.94	0.96	0.00	7,177.000	215.13
21.950	0.50	78.10	80.02	0.96	0.00	7,095.000	215.12
22.000	0.50	77.18	79.10	0.96	0.00	7,014.000	215.10
22.050	0.50	76.25	78.17	0.96	0.00	6,932.000	215.09
22.100	0.49	75.32	77.24	0.96	0.00	6,850.000	215.08
22.150	0.49	74.38	76.30	0.96	0.00	6,768.000	215.07
22.200	0.49	73.44	75.36	0.96	0.00	6,685.000	215.06
22.250	0.48	72.49	74.41	0.96	0.00	6,602.000	215.04
22.300	0.48	71.54	73.46	0.96	0.00	6,518.000	215.03
22.350	0.48	70.58	72.50	0.96	0.00	6,434.000	215.02
22.400	0.48	69.62	71.54	0.96	0.00	6,350.000	215.01
22.450	0.48	68.65	70.57	0.96	0.00	6,263.000	214.99
22.500	0.47	67.67	69.59	0.96	0.00	6,173.000	214.98
22.550	0.47	66.70	68.62	0.96	0.00	6,082.000	214.97
22.600	0.47	65.71	67.63	0.96	0.00	5,991.000	214.95
22.650	0.47	64.73	66.65	0.96	0.00	5,900.000	214.94
22.700	0.46	63.74	65.66	0.96	0.00	5,809.000	214.93
22.750	0.46	62.74	64.66	0.96	0.00	5,717.000	214.91
22.800	0.46	61.73	63.65	0.96	0.00	5,625.000	214.90
22.850	0.45	60.72	62.64	0.96	0.00	5,532.000	214.88
22.900	0.45	59.71	61.63	0.96	0.00	5,439.000	214.87
22.950	0.45	58.69	60.61	0.96	0.00	5,346.000	214.86
23.000	0.45	57.67	59.59	0.96	0.00	5,253.000	214.84
23.050	0.44	56.64	58.56	0.96	0.00	5,159.000	214.83

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1D (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
23.100	0.44	55.60	57.52	0.96	0.00	5,065.000	214.81
23.150	0.44	54.56	56.48	0.96	0.00	4,970.000	214.80
23.200	0.44	53.51	55.43	0.96	0.00	4,876.000	214.78
23.250	0.43	52.46	54.38	0.96	0.00	4,781.000	214.77
23.300	0.43	51.40	53.32	0.96	0.00	4,686.000	214.76
23.350	0.43	50.34	52.26	0.96	0.00	4,590.000	214.74
23.400	0.43	49.28	51.20	0.96	0.00	4,495.000	214.73
23.450	0.42	48.21	50.13	0.96	0.00	4,399.000	214.71
23.500	0.42	47.14	49.06	0.96	0.00	4,303.000	214.70
23.550	0.42	46.06	47.98	0.96	0.00	4,206.000	214.68
23.600	0.42	44.97	46.89	0.96	0.00	4,109.000	214.67
23.650	0.41	43.88	45.80	0.96	0.00	4,012.000	214.65
23.700	0.41	42.78	44.70	0.96	0.00	3,915.000	214.64
23.750	0.41	41.68	43.60	0.96	0.00	3,817.000	214.62
23.800	0.41	40.57	42.49	0.96	0.00	3,720.000	214.61
23.850	0.40	39.46	41.38	0.96	0.00	3,622.000	214.59
23.900	0.40	38.34	40.26	0.96	0.00	3,523.000	214.58
23.950	0.40	37.21	39.13	0.96	0.00	3,424.000	214.56
24.000	0.40	36.09	38.01	0.96	0.00	3,325.000	214.54

Subsection: Pond Inflow Summary Return Event: 1 years
Label: IB-1D (IN) Storm Event: 1 year
Scenario: Post-Development 1 year

Summary for Hydrograph Addition at 'IB-1D'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-1D

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA-1D	27,861.617	12.100	8.01
Flow (In)	IB-1D	27,861.617	12.100	8.01

Subsection: Pond Inflow Summary Return Event: 2 years
Label: IB-1D (IN) Storm Event: 2 year
Scenario: Post-Development 2 year

Summary for Hydrograph Addition at 'IB-1D'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-1D

Node Inflows

Subsection: Pond Inflow Summary | Return Event: 2 years
Label: IB-1D (IN) | Storm Event: 2 year
Scenario: Post-Development 2 year

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA-1D	37,427.544	12.100	10.69
Flow (In)	IB-1D	37,427.544	12.100	10.69

Subsection: Pond Inflow Summary | Return Event: 10 years
Label: IB-1D (IN) | Storm Event: 10 year
Scenario: Post-Development 10 year

Summary for Hydrograph Addition at 'IB-1D'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-1D

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA-1D	65,635.375	12.100	18.36
Flow (In)	IB-1D	65,635.375	12.100	18.36

Subsection: Pond Inflow Summary | Return Event: 25 years
Label: IB-1D (IN) | Storm Event: 25 year
Scenario: Post-Development 25 year

Summary for Hydrograph Addition at 'IB-1D'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-1D

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA-1D	88,554.887	12.100	24.37
Flow (In)	IB-1D	88,554.887	12.100	24.37

Subsection: Pond Inflow Summary | Return Event: 100 years
Label: IB-1D (IN) | Storm Event: 100 year
Scenario: Post-Development 100 year

Summary for Hydrograph Addition at 'IB-1D'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-1D

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA-1D	135,731.719	12.100	36.37

Proposed Hydrologic Calculations Report

Subsection: Pond Inflow Summary | Return Event: 100 years
Label: IB-1D (IN) | Storm Event: 100 year
Scenario: Post-Development 100 year

Node Inflows

Inflow Type	Element	Volume (ft^3)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Flow (In)	IB-1D	135,731.719	12.100	36.37

Subsection: Elevation-Volume-Flow Table (Pond) | Return Event: 1 years
Label: IB-1E | Storm Event: 1 year
Scenario: Post-Development 1 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.96 ft^3/s

Initial Conditions	
Elevation (Water Surface, Initial)	238.00 ft
Volume (Initial)	0.000 ft^3
Flow (Initial Outlet)	0.00 ft^3/s
Flow (Initial Infiltration)	0.00 ft^3/s
Flow (Initial, Total)	0.00 ft^3/s
Time Increment	0.050 hours

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
238.00	0.00	0.000	0.191	0.00	0.00	0.00
238.50	0.00	4,288.178	0.203	0.96	0.96	48.61
239.00	0.00	8,850.370	0.216	0.96	0.96	99.30
239.50	0.00	13,695.061	0.229	0.96	0.96	153.13
239.90	0.00	17,779.918	0.240	0.96	0.96	198.51
240.00	0.24	18,830.739	0.243	0.96	1.20	210.43
240.50	3.49	24,262.365	0.256	0.96	4.45	274.03
241.00	8.65	29,994.643	0.270	0.96	9.61	342.89
241.50	14.81	36,035.670	0.285	0.96	15.77	416.17
242.00	20.64	42,393.546	0.299	0.96	21.60	492.64
242.50	26.06	49,072.312	0.314	0.96	27.02	572.27
243.00	30.67	56,075.748	0.329	0.96	31.63	654.70
243.50	34.68	63,411.558	0.345	0.96	35.64	740.21
244.00	38.16	71,087.450	0.360	0.96	39.12	828.98

Subsection: Elevation-Volume-Flow Table (Pond) | Return Event: 2 years
Label: IB-1E | Storm Event: 2 year
Scenario: Post-Development 2 year

Infiltration	
Infiltration Method (Computed)	Constant

Proposed Hydrologic Calculations Report

Subsection: Elevation-Volume-Flow Table (Pond) | Return Event: 2 years
Label: IB-1E | Storm Event: 2 year
Scenario: Post-Development 2 year

Infiltration	
Infiltration Rate (Constant)	0.96 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	238.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
238.00	0.00	0.000	0.191	0.00	0.00	0.00
238.50	0.00	4,288.178	0.203	0.96	0.96	48.61
239.00	0.00	8,850.370	0.216	0.96	0.96	99.30
239.50	0.00	13,695.061	0.229	0.96	0.96	153.13
239.90	0.00	17,779.918	0.240	0.96	0.96	198.51
240.00	0.24	18,830.739	0.243	0.96	1.20	210.43
240.50	3.49	24,262.365	0.256	0.96	4.45	274.03
241.00	8.65	29,994.643	0.270	0.96	9.61	342.89
241.50	14.81	36,035.670	0.285	0.96	15.77	416.17
242.00	20.64	42,393.546	0.299	0.96	21.60	492.64
242.50	26.06	49,072.312	0.314	0.96	27.02	572.27
243.00	30.67	56,075.748	0.329	0.96	31.63	654.70
243.50	34.68	63,411.558	0.345	0.96	35.64	740.21
244.00	38.16	71,087.450	0.360	0.96	39.12	828.98

Subsection: Elevation-Volume-Flow Table (Pond) | Return Event: 10 years
Label: IB-1E | Storm Event: 10 year
Scenario: Post-Development 10 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.96 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	238.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Proposed Hydrologic Calculations Report

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 10 years
Label: IB-1E Storm Event: 10 year
Scenario: Post-Development 10 year

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
238.00	0.00	0.000	0.191	0.00	0.00	0.00
238.50	0.00	4,288.178	0.203	0.96	0.96	48.61
239.00	0.00	8,850.370	0.216	0.96	0.96	99.30
239.50	0.00	13,695.061	0.229	0.96	0.96	153.13
239.90	0.00	17,779.918	0.240	0.96	0.96	198.51
240.00	0.24	18,830.739	0.243	0.96	1.20	210.43
240.50	3.49	24,262.365	0.256	0.96	4.45	274.03
241.00	8.65	29,994.643	0.270	0.96	9.61	342.89
241.50	14.81	36,035.670	0.285	0.96	15.77	416.17
242.00	20.64	42,393.546	0.299	0.96	21.60	492.64
242.50	26.06	49,072.312	0.314	0.96	27.02	572.27
243.00	30.67	56,075.748	0.329	0.96	31.63	654.70
243.50	34.68	63,411.558	0.345	0.96	35.64	740.21
244.00	38.16	71,087.450	0.360	0.96	39.12	828.98

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 25 years
Label: IB-1E Storm Event: 25 year
Scenario: Post-Development 25 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.96 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	238.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Elevation (ft)	Outflow (ft³/s)	Storage (ft³)	Area (acres)	Infiltration (ft³/s)	Flow (Total) (ft³/s)	2S/t + O (ft³/s)
238.00	0.00	0.000	0.191	0.00	0.00	0.00
238.50	0.00	4,288.178	0.203	0.96	0.96	48.61
239.00	0.00	8,850.370	0.216	0.96	0.96	99.30
239.50	0.00	13,695.061	0.229	0.96	0.96	153.13
239.90	0.00	17,779.918	0.240	0.96	0.96	198.51
240.00	0.24	18,830.739	0.243	0.96	1.20	210.43
240.50	3.49	24,262.365	0.256	0.96	4.45	274.03
241.00	8.65	29,994.643	0.270	0.96	9.61	342.89
241.50	14.81	36,035.670	0.285	0.96	15.77	416.17

Proposed Hydrologic Calculations Report

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 25 years
Label: IB-1E Storm Event: 25 year
Scenario: Post-Development 25 year

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
242.00	20.64	42,393.546	0.299	0.96	21.60	492.64
242.50	26.06	49,072.312	0.314	0.96	27.02	572.27
243.00	30.67	56,075.748	0.329	0.96	31.63	654.70
243.50	34.68	63,411.558	0.345	0.96	35.64	740.21
244.00	38.16	71,087.450	0.360	0.96	39.12	828.98

Subsection: Elevation-Volume-Flow Table (Pond) Return Event: 100 years
Label: IB-1E Storm Event: 100 year
Scenario: Post-Development 100 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.96 ft^3/s

Initial Conditions	
Elevation (Water Surface, Initial)	238.00 ft
Volume (Initial)	0.000 ft^3
Flow (Initial Outlet)	0.00 ft^3/s
Flow (Initial Infiltration)	0.00 ft^3/s
Flow (Initial, Total)	0.00 ft^3/s
Time Increment	0.050 hours

Elevation (ft)	Outflow (ft^3/s)	Storage (ft^3)	Area (acres)	Infiltration (ft^3/s)	Flow (Total) (ft^3/s)	2S/t + O (ft^3/s)
238.00	0.00	0.000	0.191	0.00	0.00	0.00
238.50	0.00	4,288.178	0.203	0.96	0.96	48.61
239.00	0.00	8,850.370	0.216	0.96	0.96	99.30
239.50	0.00	13,695.061	0.229	0.96	0.96	153.13
239.90	0.00	17,779.918	0.240	0.96	0.96	198.51
240.00	0.24	18,830.739	0.243	0.96	1.20	210.43
240.50	3.49	24,262.365	0.256	0.96	4.45	274.03
241.00	8.65	29,994.643	0.270	0.96	9.61	342.89
241.50	14.81	36,035.670	0.285	0.96	15.77	416.17
242.00	20.64	42,393.546	0.299	0.96	21.60	492.64
242.50	26.06	49,072.312	0.314	0.96	27.02	572.27
243.00	30.67	56,075.748	0.329	0.96	31.63	654.70
243.50	34.68	63,411.558	0.345	0.96	35.64	740.21
244.00	38.16	71,087.450	0.360	0.96	39.12	828.98

Subsection: Level Pool Pond Routing Summary Return Event: 1 years
Label: IB-1E (IN) Storm Event: 1 year
Scenario: Post-Development 1 year

Subsection: Level Pool Pond Routing Summary — Return Event: 1 years
Label: IB-1E (IN) — Storm Event: 1 year
Scenario: Post-Development 1 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.96 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	238.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	10.67 ft³/s	Time to Peak (Flow, In)	12.100 hours
Infiltration (Peak)	0.96 ft³/s	Time to Peak (Infiltration)	11.950 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.000 hours

Elevation (Water Surface, Peak)	239.81 ft
Volume (Peak)	16,860.432 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	37,090.000 ft³
Volume (Total Infiltration)	36,186.000 ft³
Volume (Total Outlet Outflow)	0.000 ft³
Volume (Retained)	882.000 ft³
Volume (Unrouted)	-22.000 ft³
Error (Mass Balance)	0.1 %

Subsection: Level Pool Pond Routing Summary — Return Event: 2 years
Label: IB-1E (IN) — Storm Event: 2 year
Scenario: Post-Development 2 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.96 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	238.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s

Proposed Hydrologic Calculations Report

Subsection: Level Pool Pond Routing Summary — Return Event: 2 years
Label: IB-1E (IN) — Storm Event: 2 year
Scenario: Post-Development 2 year

Initial Conditions	
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	14.54 ft³/s	Time to Peak (Flow, In)	12.100 hours
Infiltration (Peak)	0.96 ft³/s	Time to Peak (Infiltration)	11.850 hours
Flow (Peak Outlet)	1.80 ft³/s	Time to Peak (Flow, Outlet)	12.550 hours

Elevation (Water Surface, Peak)	240.24 ft
Volume (Peak)	21,401.979 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	50,628.000 ft³
Volume (Total Infiltration)	41,571.000 ft³
Volume (Total Outlet Outflow)	7,544.000 ft³
Volume (Retained)	1,483.000 ft³
Volume (Unrouted)	-31.000 ft³
Error (Mass Balance)	0.1 %

Subsection: Level Pool Pond Routing Summary — Return Event: 10 years
Label: IB-1E (IN) — Storm Event: 10 year
Scenario: Post-Development 10 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.96 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	238.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	25.74 ft³/s	Time to Peak (Flow, In)	12.100 hours
Infiltration (Peak)	0.96 ft³/s	Time to Peak (Infiltration)	11.350 hours
Flow (Peak Outlet)	10.06 ft³/s	Time to Peak (Flow, Outlet)	12.300 hours

Subsection: Level Pool Pond Routing Summary | Return Event: 10 years
Label: IB-1E (IN) | Storm Event: 10 year
Scenario: Post-Development 10 year

Elevation (Water Surface, Peak)	241.11 ft
Volume (Peak)	31,350.401 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	91,110.000 ft³
Volume (Total Infiltration)	48,290.000 ft³
Volume (Total Outlet Outflow)	37,530.000 ft³
Volume (Retained)	5,266.000 ft³
Volume (Unrouted)	-24.000 ft³
Error (Mass Balance)	0.0 %

Subsection: Level Pool Pond Routing Summary | Return Event: 25 years
Label: IB-1E (IN) | Storm Event: 25 year
Scenario: Post-Development 25 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.96 ft³/s

Initial Conditions	
Elevation (Water Surface, Initial)	238.00 ft
Volume (Initial)	0.000 ft³
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary			
Flow (Peak In)	34.61 ft³/s	Time to Peak (Flow, In)	12.100 hours
Infiltration (Peak)	0.96 ft³/s	Time to Peak (Infiltration)	10.650 hours
Flow (Peak Outlet)	17.45 ft³/s	Time to Peak (Flow, Outlet)	12.250 hours

Elevation (Water Surface, Peak)	241.73 ft
Volume (Peak)	38,877.559 ft³

Mass Balance (ft³)	
Volume (Initial)	0.000 ft³
Volume (Total Inflow)	124,339.000 ft³
Volume (Total Infiltration)	51,098.000 ft³
Volume (Total Outlet Outflow)	64,154.000 ft³

Proposed Hydrologic Calculations Report

Subsection: Level Pool Pond Routing Summary	Return Event: 25 years
Label: IB-1E (IN)	Storm Event: 25 year
Scenario: Post-Development 25 year	

Mass Balance (ft^3)

Volume (Retained)	9,081.000 ft^3
Volume (Unrouted)	-7.000 ft^3
Error (Mass Balance)	0.0 %

Subsection: Level Pool Pond Routing Summary	Return Event: 100 years
Label: IB-1E (IN)	Storm Event: 100 year
Scenario: Post-Development 100 year	

Infiltration

Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.96 ft^3/s

Initial Conditions

Elevation (Water Surface, Initial)	238.00 ft
Volume (Initial)	0.000 ft^3
Flow (Initial Outlet)	0.00 ft^3/s
Flow (Initial Infiltration)	0.00 ft^3/s
Flow (Initial, Total)	0.00 ft^3/s
Time Increment	0.050 hours

Inflow/Outflow Hydrograph Summary

Flow (Peak In)	52.42 ft^3/s	Time to Peak (Flow, In)	12.100 hours
Infiltration (Peak)	0.96 ft^3/s	Time to Peak (Infiltration)	9.450 hours
Flow (Peak Outlet)	29.23 ft^3/s	Time to Peak (Flow, Outlet)	12.200 hours

Elevation (Water Surface, Peak)	242.84 ft
Volume (Peak)	53,847.633 ft^3

Mass Balance (ft^3)

Volume (Initial)	0.000 ft^3
Volume (Total Inflow)	193,191.000 ft^3
Volume (Total Infiltration)	55,661.000 ft^3
Volume (Total Outlet Outflow)	123,095.000 ft^3
Volume (Retained)	14,421.000 ft^3
Volume (Unrouted)	-14.000 ft^3
Error (Mass Balance)	0.0 %

Subsection: Pond Routing Calculations (Total Out)	Return Event: 1 years
Label: IB-1E (OUT)	Storm Event: 1 year
Scenario: Post-Development 1 year	

Pond Routing Calculations (Total Out)

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) — Return Event: 1 years
Label: IB-1E (OUT) — Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
2.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
4.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out)　　Return Event: 1 years
Label: IB-1E (OUT)　　Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
6.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
9.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
9.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
9.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
9.150	0.01	0.01	0.01	0.00	0.00	1.000	238.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 1 years
Label: IB-1E (OUT) Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
9.200	0.01	0.03	0.03	0.00	0.00	3.000	238.00
9.250	0.02	0.06	0.06	0.00	0.00	5.000	238.00
9.300	0.02	0.09	0.10	0.00	0.00	8.000	238.00
9.350	0.03	0.13	0.14	0.00	0.00	12.000	238.00
9.400	0.03	0.19	0.19	0.00	0.00	16.000	238.00
9.450	0.04	0.24	0.25	0.01	0.00	22.000	238.00
9.500	0.04	0.31	0.33	0.01	0.00	28.000	238.00
9.550	0.05	0.39	0.41	0.01	0.00	35.000	238.00
9.600	0.06	0.47	0.49	0.01	0.00	42.000	238.01
9.650	0.06	0.57	0.59	0.01	0.00	50.000	238.01
9.700	0.07	0.67	0.70	0.01	0.00	59.000	238.01
9.750	0.07	0.78	0.81	0.02	0.00	69.000	238.01
9.800	0.08	0.90	0.93	0.02	0.00	80.000	238.01
9.850	0.09	1.02	1.06	0.02	0.00	91.000	238.01
9.900	0.09	1.16	1.20	0.02	0.00	103.000	238.01
9.950	0.10	1.30	1.35	0.03	0.00	116.000	238.01
10.000	0.11	1.45	1.51	0.03	0.00	129.000	238.02
10.050	0.12	1.61	1.68	0.03	0.00	143.000	238.02
10.100	0.13	1.78	1.85	0.04	0.00	159.000	238.02
10.150	0.13	1.96	2.04	0.04	0.00	175.000	238.02
10.200	0.14	2.15	2.24	0.04	0.00	192.000	238.02
10.250	0.16	2.35	2.45	0.05	0.00	210.000	238.03
10.300	0.17	2.57	2.68	0.05	0.00	229.000	238.03
10.350	0.18	2.80	2.91	0.06	0.00	249.000	238.03
10.400	0.19	3.04	3.16	0.06	0.00	271.000	238.03
10.450	0.20	3.29	3.43	0.07	0.00	294.000	238.04
10.500	0.21	3.56	3.71	0.07	0.00	318.000	238.04
10.550	0.23	3.84	4.00	0.08	0.00	343.000	238.04
10.600	0.24	4.14	4.31	0.09	0.00	369.000	238.04
10.650	0.25	4.45	4.63	0.09	0.00	397.000	238.05
10.700	0.27	4.77	4.97	0.10	0.00	426.000	238.05
10.750	0.28	5.11	5.32	0.11	0.00	456.000	238.05
10.800	0.30	5.46	5.69	0.11	0.00	488.000	238.06
10.850	0.31	5.83	6.07	0.12	0.00	521.000	238.06
10.900	0.33	6.22	6.47	0.13	0.00	555.000	238.07
10.950	0.34	6.62	6.89	0.14	0.00	591.000	238.07
11.000	0.36	7.03	7.32	0.14	0.00	629.000	238.08
11.050	0.38	7.47	7.77	0.15	0.00	668.000	238.08
11.100	0.41	7.94	8.26	0.16	0.00	710.000	238.08
11.150	0.45	8.44	8.79	0.17	0.00	756.000	238.09
11.200	0.48	9.00	9.37	0.19	0.00	806.000	238.10
11.250	0.53	9.62	10.02	0.20	0.00	862.000	238.10
11.300	0.57	10.29	10.72	0.21	0.00	922.000	238.11
11.350	0.62	11.02	11.48	0.23	0.00	988.000	238.12
11.400	0.66	11.82	12.30	0.24	0.00	1,060.000	238.13
11.450	0.71	12.68	13.20	0.26	0.00	1,138.000	238.14

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 1 years
Label: IB-1E (OUT) Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
11.500	0.77	13.60	14.16	0.28	0.00	1,221.000	238.15
11.550	0.93	14.69	15.30	0.30	0.00	1,320.000	238.16
11.600	1.13	16.09	16.75	0.33	0.00	1,447.000	238.17
11.650	1.47	17.96	18.69	0.37	0.00	1,617.000	238.19
11.700	1.88	20.47	21.31	0.42	0.00	1,847.000	238.22
11.750	2.34	23.71	24.69	0.49	0.00	2,144.000	238.25
11.800	2.85	27.77	28.91	0.57	0.00	2,518.000	238.30
11.850	3.42	32.70	34.04	0.67	0.00	2,975.000	238.35
11.900	4.04	38.58	40.16	0.79	0.00	3,524.000	238.41
11.950	6.06	46.76	48.68	0.96	0.00	4,295.000	238.50
12.000	8.72	59.62	61.54	0.96	0.00	5,426.000	238.63
12.050	9.91	76.33	78.25	0.96	0.00	6,922.000	238.79
12.100	10.67	94.98	96.90	0.96	0.00	8,628.000	238.98
12.150	9.11	112.84	114.76	0.96	0.00	10,213.000	239.14
12.200	6.73	126.76	128.68	0.96	0.00	11,459.000	239.27
12.250	5.75	137.32	139.24	0.96	0.00	12,418.000	239.37
12.300	5.11	146.26	148.18	0.96	0.00	13,238.000	239.45
12.350	4.51	153.96	155.88	0.96	0.00	13,937.000	239.52
12.400	3.91	160.47	162.39	0.96	0.00	14,513.000	239.58
12.450	3.30	165.76	167.68	0.96	0.00	14,985.000	239.63
12.500	2.66	169.80	171.72	0.96	0.00	15,346.000	239.66
12.550	2.24	172.78	174.70	0.96	0.00	15,613.000	239.69
12.600	1.86	174.96	176.88	0.96	0.00	15,809.000	239.71
12.650	1.72	176.62	178.54	0.96	0.00	15,959.000	239.72
12.700	1.64	178.07	179.99	0.96	0.00	16,090.000	239.74
12.750	1.57	179.36	181.28	0.96	0.00	16,207.000	239.75
12.800	1.51	180.52	182.44	0.96	0.00	16,311.000	239.76
12.850	1.44	181.54	183.46	0.96	0.00	16,405.000	239.77
12.900	1.37	182.44	184.36	0.96	0.00	16,485.000	239.78
12.950	1.30	183.19	185.11	0.96	0.00	16,554.000	239.78
13.000	1.24	183.82	185.74	0.96	0.00	16,611.000	239.79
13.050	1.19	184.32	186.24	0.96	0.00	16,657.000	239.79
13.100	1.14	184.73	186.65	0.96	0.00	16,694.000	239.80
13.150	1.12	185.07	186.99	0.96	0.00	16,725.000	239.80
13.200	1.10	185.38	187.30	0.96	0.00	16,753.000	239.80
13.250	1.09	185.64	187.56	0.96	0.00	16,777.000	239.80
13.300	1.07	185.88	187.80	0.96	0.00	16,798.000	239.81
13.350	1.05	186.07	187.99	0.96	0.00	16,816.000	239.81
13.400	1.03	186.24	188.16	0.96	0.00	16,831.000	239.81
13.450	1.02	186.37	188.29	0.96	0.00	16,843.000	239.81
13.500	1.00	186.47	188.39	0.96	0.00	16,852.000	239.81
13.550	0.98	186.53	188.45	0.96	0.00	16,858.000	239.81
13.600	0.96	186.56	188.48	0.96	0.00	16,860.000	239.81
13.650	0.95	186.55	188.47	0.96	0.00	16,860.000	239.81
13.700	0.93	186.51	188.43	0.96	0.00	16,856.000	239.81
13.750	0.91	186.43	188.35	0.96	0.00	16,849.000	239.81

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 1 years
Label: IB-1E (OUT) Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
13.800	0.89	186.32	188.24	0.96	0.00	16,838.000	239.81
13.850	0.88	186.17	188.09	0.96	0.00	16,825.000	239.81
13.900	0.86	185.98	187.90	0.96	0.00	16,808.000	239.81
13.950	0.84	185.76	187.68	0.96	0.00	16,787.000	239.80
14.000	0.82	185.50	187.42	0.96	0.00	16,764.000	239.80
14.050	0.81	185.20	187.12	0.96	0.00	16,737.000	239.80
14.100	0.79	184.88	186.80	0.96	0.00	16,708.000	239.80
14.150	0.78	184.54	186.46	0.96	0.00	16,677.000	239.79
14.200	0.77	184.18	186.10	0.96	0.00	16,644.000	239.79
14.250	0.77	183.80	185.72	0.96	0.00	16,609.000	239.79
14.300	0.76	183.40	185.32	0.96	0.00	16,573.000	239.78
14.350	0.75	182.99	184.91	0.96	0.00	16,536.000	239.78
14.400	0.74	182.56	184.48	0.96	0.00	16,497.000	239.78
14.450	0.73	182.11	184.03	0.96	0.00	16,456.000	239.77
14.500	0.72	181.65	183.57	0.96	0.00	16,414.000	239.77
14.550	0.71	181.17	183.09	0.96	0.00	16,370.000	239.76
14.600	0.71	180.67	182.59	0.96	0.00	16,325.000	239.76
14.650	0.70	180.15	182.07	0.96	0.00	16,278.000	239.76
14.700	0.69	179.62	181.54	0.96	0.00	16,230.000	239.75
14.750	0.68	179.06	180.98	0.96	0.00	16,180.000	239.75
14.800	0.67	178.49	180.41	0.96	0.00	16,128.000	239.74
14.850	0.66	177.91	179.83	0.96	0.00	16,075.000	239.74
14.900	0.65	177.30	179.22	0.96	0.00	16,021.000	239.73
14.950	0.64	176.68	178.60	0.96	0.00	15,964.000	239.72
15.000	0.64	176.04	177.96	0.96	0.00	15,907.000	239.72
15.050	0.63	175.38	177.30	0.96	0.00	15,847.000	239.71
15.100	0.62	174.71	176.63	0.96	0.00	15,786.000	239.71
15.150	0.61	174.01	175.93	0.96	0.00	15,724.000	239.70
15.200	0.60	173.30	175.22	0.96	0.00	15,660.000	239.69
15.250	0.59	172.57	174.49	0.96	0.00	15,594.000	239.69
15.300	0.58	171.82	173.74	0.96	0.00	15,527.000	239.68
15.350	0.57	171.05	172.97	0.96	0.00	15,458.000	239.67
15.400	0.56	170.27	172.19	0.96	0.00	15,388.000	239.67
15.450	0.55	169.47	171.39	0.96	0.00	15,316.000	239.66
15.500	0.54	168.64	170.56	0.96	0.00	15,242.000	239.65
15.550	0.54	167.80	169.72	0.96	0.00	15,167.000	239.65
15.600	0.53	166.94	168.86	0.96	0.00	15,090.000	239.64
15.650	0.52	166.07	167.99	0.96	0.00	15,012.000	239.63
15.700	0.51	165.17	167.09	0.96	0.00	14,932.000	239.62
15.750	0.50	164.26	166.18	0.96	0.00	14,850.000	239.62
15.800	0.49	163.32	165.24	0.96	0.00	14,767.000	239.61
15.850	0.48	162.37	164.29	0.96	0.00	14,682.000	239.60
15.900	0.47	161.40	163.32	0.96	0.00	14,596.000	239.59
15.950	0.46	160.41	162.33	0.96	0.00	14,508.000	239.58
16.000	0.45	159.40	161.32	0.96	0.00	14,419.000	239.57
16.050	0.44	158.38	160.30	0.96	0.00	14,328.000	239.56

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
16.100	0.44	157.34	159.26	0.96	0.00	14,236.000	239.55
16.150	0.43	156.29	158.21	0.96	0.00	14,143.000	239.54
16.200	0.43	155.23	157.15	0.96	0.00	14,050.000	239.54
16.250	0.42	154.16	156.08	0.96	0.00	13,955.000	239.53
16.300	0.42	153.09	155.01	0.96	0.00	13,861.000	239.52
16.350	0.42	152.00	153.92	0.96	0.00	13,765.000	239.51
16.400	0.41	150.91	152.83	0.96	0.00	13,668.000	239.50
16.450	0.41	149.81	151.73	0.96	0.00	13,566.000	239.49
16.500	0.40	148.70	150.62	0.96	0.00	13,463.000	239.48
16.550	0.40	147.59	149.51	0.96	0.00	13,360.000	239.47
16.600	0.40	146.46	148.38	0.96	0.00	13,257.000	239.46
16.650	0.39	145.33	147.25	0.96	0.00	13,152.000	239.45
16.700	0.39	144.19	146.11	0.96	0.00	13,047.000	239.43
16.750	0.38	143.04	144.96	0.96	0.00	12,942.000	239.42
16.800	0.38	141.89	143.81	0.96	0.00	12,836.000	239.41
16.850	0.38	140.72	142.64	0.96	0.00	12,729.000	239.40
16.900	0.37	139.55	141.47	0.96	0.00	12,621.000	239.39
16.950	0.37	138.37	140.29	0.96	0.00	12,514.000	239.38
17.000	0.36	137.18	139.10	0.96	0.00	12,405.000	239.37
17.050	0.36	135.98	137.90	0.96	0.00	12,296.000	239.36
17.100	0.36	134.78	136.70	0.96	0.00	12,186.000	239.35
17.150	0.35	133.56	135.48	0.96	0.00	12,075.000	239.34
17.200	0.35	132.34	134.26	0.96	0.00	11,964.000	239.32
17.250	0.34	131.11	133.03	0.96	0.00	11,853.000	239.31
17.300	0.34	129.87	131.79	0.96	0.00	11,741.000	239.30
17.350	0.33	128.63	130.55	0.96	0.00	11,628.000	239.29
17.400	0.33	127.37	129.29	0.96	0.00	11,514.000	239.28
17.450	0.33	126.11	128.03	0.96	0.00	11,400.000	239.27
17.500	0.32	124.84	126.76	0.96	0.00	11,286.000	239.26
17.550	0.32	123.56	125.48	0.96	0.00	11,171.000	239.24
17.600	0.31	122.27	124.19	0.96	0.00	11,055.000	239.23
17.650	0.31	120.97	122.89	0.96	0.00	10,938.000	239.22
17.700	0.31	119.67	121.59	0.96	0.00	10,822.000	239.21
17.750	0.30	118.35	120.27	0.96	0.00	10,704.000	239.19
17.800	0.30	117.03	118.95	0.96	0.00	10,586.000	239.18
17.850	0.29	115.70	117.62	0.96	0.00	10,467.000	239.17
17.900	0.29	114.36	116.28	0.96	0.00	10,348.000	239.16
17.950	0.28	113.02	114.94	0.96	0.00	10,228.000	239.15
18.000	0.28	111.66	113.58	0.96	0.00	10,108.000	239.13
18.050	0.28	110.30	112.22	0.96	0.00	9,987.000	239.12
18.100	0.27	108.93	110.85	0.96	0.00	9,866.000	239.11
18.150	0.27	107.56	109.48	0.96	0.00	9,745.000	239.09
18.200	0.27	106.18	108.10	0.96	0.00	9,623.000	239.08
18.250	0.27	104.80	106.72	0.96	0.00	9,502.000	239.07
18.300	0.27	103.42	105.34	0.96	0.00	9,380.000	239.06
18.350	0.27	102.04	103.96	0.96	0.00	9,259.000	239.04

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 1 years
Label: IB-1E (OUT) Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
18.400	0.27	100.65	102.57	0.96	0.00	9,137.000	239.03
18.450	0.27	99.27	101.19	0.96	0.00	9,016.000	239.02
18.500	0.26	97.88	99.80	0.96	0.00	8,894.000	239.00
18.550	0.26	96.48	98.40	0.96	0.00	8,768.000	238.99
18.600	0.26	95.09	97.01	0.96	0.00	8,638.000	238.98
18.650	0.26	93.69	95.61	0.96	0.00	8,509.000	238.96
18.700	0.26	92.29	94.21	0.96	0.00	8,380.000	238.95
18.750	0.26	90.89	92.81	0.96	0.00	8,251.000	238.94
18.800	0.26	89.49	91.41	0.96	0.00	8,122.000	238.92
18.850	0.26	88.08	90.00	0.96	0.00	7,993.000	238.91
18.900	0.25	86.67	88.59	0.96	0.00	7,863.000	238.89
18.950	0.25	85.26	87.18	0.96	0.00	7,734.000	238.88
19.000	0.25	83.84	85.76	0.96	0.00	7,605.000	238.87
19.050	0.25	82.43	84.35	0.96	0.00	7,476.000	238.85
19.100	0.25	81.01	82.93	0.96	0.00	7,346.000	238.84
19.150	0.25	79.58	81.50	0.96	0.00	7,217.000	238.82
19.200	0.25	78.16	80.08	0.96	0.00	7,088.000	238.81
19.250	0.25	76.73	78.65	0.96	0.00	6,959.000	238.80
19.300	0.24	75.30	77.22	0.96	0.00	6,830.000	238.78
19.350	0.24	73.87	75.79	0.96	0.00	6,700.000	238.77
19.400	0.24	72.44	74.36	0.96	0.00	6,571.000	238.75
19.450	0.24	71.00	72.92	0.96	0.00	6,442.000	238.74
19.500	0.24	69.56	71.48	0.96	0.00	6,313.000	238.73
19.550	0.24	68.12	70.04	0.96	0.00	6,183.000	238.71
19.600	0.24	66.68	68.60	0.96	0.00	6,054.000	238.70
19.650	0.24	65.23	67.15	0.96	0.00	5,925.000	238.68
19.700	0.23	63.78	65.70	0.96	0.00	5,796.000	238.67
19.750	0.23	62.33	64.25	0.96	0.00	5,667.000	238.65
19.800	0.23	60.88	62.80	0.96	0.00	5,537.000	238.64
19.850	0.23	59.42	61.34	0.96	0.00	5,408.000	238.63
19.900	0.23	57.96	59.88	0.96	0.00	5,279.000	238.61
19.950	0.23	56.50	58.42	0.96	0.00	5,150.000	238.60
20.000	0.23	55.04	56.96	0.96	0.00	5,021.000	238.58
20.050	0.23	53.57	55.49	0.96	0.00	4,892.000	238.57
20.100	0.22	52.10	54.02	0.96	0.00	4,762.000	238.55
20.150	0.22	50.63	52.55	0.96	0.00	4,633.000	238.54
20.200	0.22	49.16	51.08	0.96	0.00	4,504.000	238.52
20.250	0.22	47.69	49.61	0.96	0.00	4,376.000	238.51
20.300	0.22	46.23	48.13	0.95	0.00	4,245.000	238.50
20.350	0.22	44.83	46.67	0.92	0.00	4,112.000	238.48
20.400	0.22	43.48	45.27	0.89	0.00	3,985.000	238.47
20.450	0.22	42.18	43.92	0.87	0.00	3,863.000	238.45
20.500	0.22	40.94	42.62	0.84	0.00	3,745.000	238.44
20.550	0.22	39.74	41.37	0.82	0.00	3,633.000	238.43
20.600	0.22	38.58	40.17	0.79	0.00	3,525.000	238.41
20.650	0.21	37.47	39.01	0.77	0.00	3,421.000	238.40

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 1 years
Label: IB-1E (OUT) Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
20.700	0.21	36.40	37.90	0.75	0.00	3,321.000	238.39
20.750	0.21	35.38	36.83	0.73	0.00	3,224.000	238.38
20.800	0.21	34.39	35.80	0.71	0.00	3,132.000	238.37
20.850	0.21	33.44	34.81	0.69	0.00	3,044.000	238.36
20.900	0.21	32.52	33.86	0.67	0.00	2,958.000	238.35
20.950	0.21	31.64	32.94	0.65	0.00	2,876.000	238.34
21.000	0.21	30.79	32.06	0.63	0.00	2,798.000	238.33
21.050	0.21	29.98	31.21	0.62	0.00	2,722.000	238.32
21.100	0.21	29.19	30.39	0.60	0.00	2,649.000	238.31
21.150	0.21	28.43	29.60	0.58	0.00	2,579.000	238.30
21.200	0.20	27.70	28.84	0.57	0.00	2,512.000	238.30
21.250	0.20	27.00	28.11	0.56	0.00	2,447.000	238.29
21.300	0.20	26.32	27.41	0.54	0.00	2,385.000	238.28
21.350	0.20	25.67	26.73	0.53	0.00	2,325.000	238.27
21.400	0.20	25.05	26.08	0.52	0.00	2,267.000	238.27
21.450	0.20	24.44	25.45	0.50	0.00	2,211.000	238.26
21.500	0.20	23.86	24.84	0.49	0.00	2,158.000	238.26
21.550	0.20	23.30	24.26	0.48	0.00	2,106.000	238.25
21.600	0.20	22.76	23.69	0.47	0.00	2,057.000	238.24
21.650	0.20	22.24	23.15	0.46	0.00	2,009.000	238.24
21.700	0.19	21.73	22.63	0.45	0.00	1,963.000	238.23
21.750	0.19	21.25	22.12	0.44	0.00	1,918.000	238.23
21.800	0.19	20.78	21.64	0.43	0.00	1,876.000	238.22
21.850	0.19	20.33	21.17	0.42	0.00	1,835.000	238.22
21.900	0.19	19.90	20.72	0.41	0.00	1,795.000	238.21
21.950	0.19	19.48	20.28	0.40	0.00	1,757.000	238.21
22.000	0.19	19.08	19.86	0.39	0.00	1,720.000	238.20
22.050	0.19	18.69	19.45	0.38	0.00	1,684.000	238.20
22.100	0.19	18.31	19.06	0.38	0.00	1,650.000	238.20
22.150	0.19	17.95	18.68	0.37	0.00	1,616.000	238.19
22.200	0.19	17.60	18.32	0.36	0.00	1,585.000	238.19
22.250	0.18	17.26	17.97	0.35	0.00	1,554.000	238.18
22.300	0.18	16.93	17.62	0.35	0.00	1,524.000	238.18
22.350	0.18	16.61	17.29	0.34	0.00	1,495.000	238.18
22.400	0.18	16.30	16.98	0.34	0.00	1,467.000	238.17
22.450	0.18	16.01	16.67	0.33	0.00	1,440.000	238.17
22.500	0.18	15.72	16.37	0.32	0.00	1,414.000	238.17
22.550	0.18	15.45	16.08	0.32	0.00	1,389.000	238.17
22.600	0.18	15.18	15.81	0.31	0.00	1,365.000	238.16
22.650	0.18	14.92	15.54	0.31	0.00	1,342.000	238.16
22.700	0.18	14.68	15.28	0.30	0.00	1,319.000	238.16
22.750	0.18	14.43	15.03	0.30	0.00	1,297.000	238.15
22.800	0.17	14.20	14.78	0.29	0.00	1,276.000	238.15
22.850	0.17	13.97	14.55	0.29	0.00	1,255.000	238.15
22.900	0.17	13.75	14.32	0.28	0.00	1,235.000	238.15
22.950	0.17	13.54	14.10	0.28	0.00	1,216.000	238.15

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 1 years
Label: IB-1E (OUT) Storm Event: 1 year
Scenario: Post-Development 1 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
23.000	0.17	13.33	13.88	0.27	0.00	1,197.000	238.14
23.050	0.17	13.13	13.67	0.27	0.00	1,179.000	238.14
23.100	0.17	12.94	13.47	0.27	0.00	1,161.000	238.14
23.150	0.17	12.75	13.27	0.26	0.00	1,144.000	238.14
23.200	0.17	12.57	13.08	0.26	0.00	1,128.000	238.13
23.250	0.17	12.39	12.90	0.25	0.00	1,112.000	238.13
23.300	0.16	12.22	12.72	0.25	0.00	1,096.000	238.13
23.350	0.16	12.05	12.55	0.25	0.00	1,081.000	238.13
23.400	0.16	11.89	12.38	0.24	0.00	1,066.000	238.13
23.450	0.16	11.73	12.21	0.24	0.00	1,052.000	238.13
23.500	0.16	11.58	12.06	0.24	0.00	1,038.000	238.12
23.550	0.16	11.43	11.90	0.24	0.00	1,025.000	238.12
23.600	0.16	11.28	11.75	0.23	0.00	1,012.000	238.12
23.650	0.16	11.14	11.60	0.23	0.00	999.000	238.12
23.700	0.16	11.01	11.46	0.23	0.00	987.000	238.12
23.750	0.16	10.87	11.32	0.22	0.00	975.000	238.12
23.800	0.16	10.74	11.18	0.22	0.00	963.000	238.12
23.850	0.15	10.61	11.05	0.22	0.00	951.000	238.11
23.900	0.15	10.49	10.92	0.22	0.00	940.000	238.11
23.950	0.15	10.37	10.79	0.21	0.00	929.000	238.11
24.000	0.15	10.25	10.67	0.21	0.00	918.000	238.11

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1E (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1E (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
3.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) — Return Event: 2 years
Label: IB-1E (OUT) — Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
5.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1E (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
7.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
7.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
8.400	0.01	0.01	0.01	0.00	0.00	1.000	238.00
8.450	0.01	0.03	0.03	0.00	0.00	3.000	238.00
8.500	0.01	0.05	0.05	0.00	0.00	5.000	238.00
8.550	0.02	0.08	0.09	0.00	0.00	7.000	238.00
8.600	0.02	0.12	0.13	0.00	0.00	11.000	238.00
8.650	0.03	0.17	0.17	0.00	0.00	15.000	238.00
8.700	0.03	0.22	0.23	0.00	0.00	20.000	238.00
8.750	0.04	0.28	0.30	0.01	0.00	25.000	238.00
8.800	0.05	0.35	0.37	0.01	0.00	32.000	238.00
8.850	0.05	0.43	0.45	0.01	0.00	39.000	238.00
8.900	0.06	0.52	0.54	0.01	0.00	46.000	238.01
8.950	0.06	0.62	0.64	0.01	0.00	55.000	238.01
9.000	0.07	0.72	0.75	0.01	0.00	64.000	238.01
9.050	0.08	0.83	0.86	0.02	0.00	74.000	238.01
9.100	0.08	0.95	0.99	0.02	0.00	85.000	238.01
9.150	0.09	1.08	1.12	0.02	0.00	96.000	238.01
9.200	0.10	1.22	1.27	0.03	0.00	108.000	238.01
9.250	0.10	1.36	1.42	0.03	0.00	121.000	238.01
9.300	0.11	1.52	1.58	0.03	0.00	135.000	238.02
9.350	0.12	1.68	1.75	0.03	0.00	150.000	238.02
9.400	0.13	1.85	1.93	0.04	0.00	165.000	238.02
9.450	0.14	2.03	2.12	0.04	0.00	181.000	238.02
9.500	0.15	2.22	2.32	0.05	0.00	198.000	238.02
9.550	0.15	2.42	2.52	0.05	0.00	216.000	238.03
9.600	0.16	2.63	2.74	0.05	0.00	235.000	238.03
9.650	0.17	2.85	2.96	0.06	0.00	254.000	238.03
9.700	0.18	3.07	3.20	0.06	0.00	274.000	238.03
9.750	0.19	3.31	3.44	0.07	0.00	295.000	238.04
9.800	0.20	3.55	3.70	0.07	0.00	317.000	238.04
9.850	0.21	3.81	3.96	0.08	0.00	339.000	238.04
9.900	0.22	4.07	4.24	0.08	0.00	363.000	238.04
9.950	0.23	4.34	4.52	0.09	0.00	387.000	238.05

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1E (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft^3/s)	2S/t - O (ft^3/s)	2S/t + O (ft^3/s)	Infiltration (ft^3/s)	Flow (Outlet) (ft^3/s)	Volume (ft^3)	Elevation (ft)
10.000	0.24	4.62	4.81	0.09	0.00	412.000	238.05
10.050	0.25	4.91	5.11	0.10	0.00	438.000	238.05
10.100	0.26	5.21	5.43	0.11	0.00	465.000	238.06
10.150	0.28	5.53	5.76	0.11	0.00	494.000	238.06
10.200	0.29	5.86	6.10	0.12	0.00	524.000	238.06
10.250	0.31	6.21	6.46	0.13	0.00	555.000	238.07
10.300	0.33	6.57	6.84	0.14	0.00	588.000	238.07
10.350	0.34	6.96	7.24	0.14	0.00	622.000	238.07
10.400	0.36	7.35	7.66	0.15	0.00	658.000	238.08
10.450	0.38	7.77	8.09	0.16	0.00	695.000	238.08
10.500	0.39	8.21	8.54	0.17	0.00	734.000	238.09
10.550	0.41	8.66	9.01	0.18	0.00	775.000	238.09
10.600	0.43	9.13	9.50	0.19	0.00	817.000	238.10
10.650	0.45	9.62	10.01	0.20	0.00	861.000	238.10
10.700	0.47	10.13	10.54	0.21	0.00	907.000	238.11
10.750	0.49	10.65	11.09	0.22	0.00	955.000	238.11
10.800	0.51	11.20	11.66	0.23	0.00	1,004.000	238.12
10.850	0.54	11.76	12.25	0.24	0.00	1,055.000	238.13
10.900	0.56	12.35	12.85	0.25	0.00	1,108.000	238.13
10.950	0.58	12.95	13.48	0.27	0.00	1,163.000	238.14
11.000	0.60	13.57	14.13	0.28	0.00	1,219.000	238.15
11.050	0.64	14.23	14.81	0.29	0.00	1,278.000	238.15
11.100	0.68	14.93	15.54	0.31	0.00	1,342.000	238.16
11.150	0.73	15.69	16.33	0.32	0.00	1,411.000	238.17
11.200	0.79	16.52	17.20	0.34	0.00	1,487.000	238.18
11.250	0.85	17.43	18.15	0.36	0.00	1,570.000	238.19
11.300	0.91	18.43	19.19	0.38	0.00	1,661.000	238.20
11.350	0.98	19.52	20.32	0.40	0.00	1,760.000	238.21
11.400	1.05	20.69	21.54	0.43	0.00	1,867.000	238.22
11.450	1.12	21.95	22.85	0.45	0.00	1,982.000	238.24
11.500	1.19	23.30	24.25	0.48	0.00	2,106.000	238.25
11.550	1.43	24.89	25.92	0.51	0.00	2,253.000	238.27
11.600	1.73	26.95	28.05	0.55	0.00	2,442.000	238.29
11.650	2.23	29.68	30.90	0.61	0.00	2,695.000	238.32
11.700	2.82	33.36	34.73	0.69	0.00	3,037.000	238.36
11.750	3.47	38.09	39.66	0.78	0.00	3,478.000	238.41
11.800	4.19	43.94	45.75	0.90	0.00	4,029.000	238.47
11.850	4.96	51.18	53.10	0.96	0.00	4,681.000	238.54
11.900	5.80	60.02	61.94	0.96	0.00	5,462.000	238.63
11.950	8.58	72.49	74.41	0.96	0.00	6,576.000	238.75
12.000	12.18	91.33	93.25	0.96	0.00	8,292.000	238.94
12.050	13.66	115.25	117.17	0.96	0.00	10,428.000	239.17
12.100	14.54	141.53	143.45	0.96	0.00	12,803.000	239.41
12.150	12.31	166.46	168.38	0.96	0.00	15,047.000	239.63
12.200	9.04	185.90	187.82	0.96	0.00	16,800.000	239.81
12.250	7.69	200.54	202.62	0.96	0.08	18,141.000	239.93

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) — Return Event: 2 years
Label: IB-1E (OUT) — Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
12.300	6.80	212.17	215.03	0.96	0.47	19,214.000	240.04
12.350	5.99	221.08	224.96	0.96	0.98	20,046.000	240.11
12.400	5.18	227.63	232.26	0.96	1.35	20,661.000	240.17
12.450	4.36	232.04	237.17	0.96	1.60	21,079.000	240.21
12.500	3.51	234.51	239.92	0.96	1.74	21,312.000	240.23
12.550	2.95	235.45	240.97	0.96	1.80	21,402.000	240.24
12.600	2.45	235.35	240.85	0.96	1.79	21,392.000	240.24
12.650	2.27	234.64	240.07	0.96	1.75	21,325.000	240.23
12.700	2.16	233.74	239.06	0.96	1.70	21,239.000	240.23
12.750	2.07	232.75	237.96	0.96	1.64	21,146.000	240.22
12.800	1.98	231.71	236.80	0.96	1.59	21,047.000	240.21
12.850	1.89	230.61	235.57	0.96	1.52	20,943.000	240.20
12.900	1.80	229.46	234.30	0.96	1.46	20,834.000	240.19
12.950	1.71	228.27	232.97	0.96	1.39	20,722.000	240.18
13.000	1.62	227.04	231.60	0.96	1.32	20,606.000	240.17
13.050	1.55	225.80	230.21	0.96	1.25	20,489.000	240.16
13.100	1.50	224.57	228.85	0.96	1.18	20,373.000	240.14
13.150	1.46	223.38	227.53	0.96	1.11	20,262.000	240.13
13.200	1.44	222.27	226.29	0.96	1.05	20,158.000	240.12
13.250	1.42	221.23	225.13	0.96	0.99	20,060.000	240.12
13.300	1.40	220.26	224.05	0.96	0.93	19,969.000	240.11
13.350	1.37	219.34	223.03	0.96	0.88	19,883.000	240.10
13.400	1.35	218.48	222.06	0.96	0.83	19,802.000	240.09
13.450	1.33	217.66	221.16	0.96	0.79	19,726.000	240.08
13.500	1.30	216.89	220.29	0.96	0.74	19,654.000	240.08
13.550	1.28	216.15	219.48	0.96	0.70	19,585.000	240.07
13.600	1.26	215.45	218.69	0.96	0.66	19,520.000	240.06
13.650	1.23	214.78	217.94	0.96	0.62	19,457.000	240.06
13.700	1.21	214.13	217.22	0.96	0.59	19,397.000	240.05
13.750	1.19	213.51	216.53	0.96	0.55	19,339.000	240.05
13.800	1.16	212.91	215.86	0.96	0.52	19,283.000	240.04
13.850	1.14	212.33	215.21	0.96	0.48	19,229.000	240.04
13.900	1.12	211.76	214.58	0.96	0.45	19,177.000	240.03
13.950	1.09	211.21	213.97	0.96	0.42	19,126.000	240.03
14.000	1.07	210.68	213.37	0.96	0.39	19,076.000	240.02
14.050	1.05	210.15	212.79	0.96	0.36	19,027.000	240.02
14.100	1.03	209.65	212.23	0.96	0.33	18,981.000	240.01
14.150	1.02	209.17	211.70	0.96	0.30	18,936.000	240.01
14.200	1.01	208.72	211.20	0.96	0.28	18,895.000	240.01
14.250	0.99	208.30	210.72	0.96	0.25	18,855.000	240.00
14.300	0.98	207.88	210.27	0.96	0.23	18,817.000	240.00
14.350	0.97	207.47	209.84	0.96	0.23	18,779.000	240.00
14.400	0.96	207.05	209.40	0.96	0.22	18,740.000	239.99
14.450	0.95	206.62	208.96	0.96	0.21	18,700.000	239.99
14.500	0.94	206.19	208.51	0.96	0.20	18,660.000	239.98
14.550	0.93	205.75	208.05	0.96	0.19	18,620.000	239.98

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) | Return Event: 2 years
Label: IB-1E (OUT) | Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
14.600	0.92	205.31	207.59	0.96	0.18	18,579.000	239.98
14.650	0.90	204.86	207.13	0.96	0.17	18,538.000	239.97
14.700	0.89	204.41	206.66	0.96	0.16	18,497.000	239.97
14.750	0.88	203.96	206.19	0.96	0.15	18,455.000	239.96
14.800	0.87	203.50	205.71	0.96	0.14	18,413.000	239.96
14.850	0.86	203.04	205.23	0.96	0.13	18,371.000	239.96
14.900	0.85	202.57	204.74	0.96	0.12	18,328.000	239.95
14.950	0.83	202.10	204.25	0.96	0.11	18,285.000	239.95
15.000	0.82	201.63	203.76	0.96	0.10	18,241.000	239.94
15.050	0.81	201.15	203.26	0.96	0.09	18,197.000	239.94
15.100	0.80	200.67	202.76	0.96	0.08	18,153.000	239.94
15.150	0.79	200.19	202.26	0.96	0.07	18,109.000	239.93
15.200	0.78	199.70	201.75	0.96	0.06	18,064.000	239.93
15.250	0.76	199.21	201.24	0.96	0.05	18,019.000	239.92
15.300	0.75	198.72	200.72	0.96	0.04	17,974.000	239.92
15.350	0.74	198.22	200.21	0.96	0.03	17,928.000	239.91
15.400	0.73	197.72	199.68	0.96	0.02	17,883.000	239.91
15.450	0.72	197.22	199.16	0.96	0.01	17,837.000	239.91
15.500	0.70	196.71	198.63	0.96	0.00	17,790.000	239.90
15.550	0.69	196.18	198.10	0.96	0.00	17,742.000	239.90
15.600	0.68	195.63	197.55	0.96	0.00	17,691.000	239.89
15.650	0.67	195.06	196.98	0.96	0.00	17,639.000	239.89
15.700	0.65	194.46	196.38	0.96	0.00	17,584.000	239.88
15.750	0.64	193.84	195.76	0.96	0.00	17,527.000	239.88
15.800	0.63	193.19	195.11	0.96	0.00	17,467.000	239.87
15.850	0.62	192.52	194.44	0.96	0.00	17,406.000	239.86
15.900	0.61	191.83	193.75	0.96	0.00	17,342.000	239.86
15.950	0.59	191.11	193.03	0.96	0.00	17,276.000	239.85
16.000	0.58	190.36	192.28	0.96	0.00	17,208.000	239.85
16.050	0.57	189.60	191.52	0.96	0.00	17,138.000	239.84
16.100	0.56	188.82	190.74	0.96	0.00	17,066.000	239.83
16.150	0.56	188.02	189.94	0.96	0.00	16,994.000	239.82
16.200	0.55	187.21	189.13	0.96	0.00	16,920.000	239.82
16.250	0.55	186.38	188.30	0.96	0.00	16,845.000	239.81
16.300	0.54	185.55	187.47	0.96	0.00	16,769.000	239.80
16.350	0.54	184.71	186.63	0.96	0.00	16,692.000	239.80
16.400	0.53	183.86	185.78	0.96	0.00	16,615.000	239.79
16.450	0.53	182.99	184.91	0.96	0.00	16,536.000	239.78
16.500	0.52	182.12	184.04	0.96	0.00	16,457.000	239.77
16.550	0.52	181.24	183.16	0.96	0.00	16,377.000	239.76
16.600	0.51	180.34	182.26	0.96	0.00	16,296.000	239.76
16.650	0.50	179.44	181.36	0.96	0.00	16,214.000	239.75
16.700	0.50	178.52	180.44	0.96	0.00	16,131.000	239.74
16.750	0.49	177.60	179.52	0.96	0.00	16,047.000	239.73
16.800	0.49	176.66	178.58	0.96	0.00	15,963.000	239.72
16.850	0.48	175.71	177.63	0.96	0.00	15,877.000	239.72

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) — Return Event: 2 years
Label: IB-1E (OUT) — Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
16.900	0.48	174.75	176.67	0.96	0.00	15,791.000	239.71
16.950	0.47	173.79	175.71	0.96	0.00	15,704.000	239.70
17.000	0.47	172.81	174.73	0.96	0.00	15,615.000	239.69
17.050	0.46	171.82	173.74	0.96	0.00	15,526.000	239.68
17.100	0.46	170.82	172.74	0.96	0.00	15,437.000	239.67
17.150	0.45	169.80	171.72	0.96	0.00	15,346.000	239.66
17.200	0.45	168.78	170.70	0.96	0.00	15,254.000	239.65
17.250	0.44	167.75	169.67	0.96	0.00	15,162.000	239.65
17.300	0.44	166.71	168.63	0.96	0.00	15,069.000	239.64
17.350	0.43	165.65	167.57	0.96	0.00	14,975.000	239.63
17.400	0.42	164.59	166.51	0.96	0.00	14,880.000	239.62
17.450	0.42	163.51	165.43	0.96	0.00	14,784.000	239.61
17.500	0.42	162.43	164.35	0.96	0.00	14,687.000	239.60
17.550	0.41	161.33	163.25	0.96	0.00	14,590.000	239.59
17.600	0.40	160.22	162.14	0.96	0.00	14,491.000	239.58
17.650	0.40	159.10	161.02	0.96	0.00	14,392.000	239.57
17.700	0.39	157.97	159.89	0.96	0.00	14,292.000	239.56
17.750	0.39	156.84	158.76	0.96	0.00	14,191.000	239.55
17.800	0.38	155.68	157.60	0.96	0.00	14,090.000	239.54
17.850	0.38	154.52	156.44	0.96	0.00	13,987.000	239.53
17.900	0.37	153.35	155.27	0.96	0.00	13,884.000	239.52
17.950	0.37	152.17	154.09	0.96	0.00	13,780.000	239.51
18.000	0.36	150.97	152.89	0.96	0.00	13,673.000	239.50
18.050	0.36	149.77	151.69	0.96	0.00	13,562.000	239.49
18.100	0.35	148.56	150.48	0.96	0.00	13,450.000	239.48
18.150	0.35	147.34	149.26	0.96	0.00	13,337.000	239.46
18.200	0.35	146.12	148.04	0.96	0.00	13,225.000	239.45
18.250	0.35	144.89	146.81	0.96	0.00	13,112.000	239.44
18.300	0.35	143.67	145.59	0.96	0.00	12,999.000	239.43
18.350	0.34	142.44	144.36	0.96	0.00	12,886.000	239.42
18.400	0.34	141.20	143.12	0.96	0.00	12,773.000	239.41
18.450	0.34	139.97	141.89	0.96	0.00	12,660.000	239.40
18.500	0.34	138.73	140.65	0.96	0.00	12,546.000	239.38
18.550	0.34	137.49	139.41	0.96	0.00	12,433.000	239.37
18.600	0.34	136.24	138.16	0.96	0.00	12,319.000	239.36
18.650	0.33	134.99	136.91	0.96	0.00	12,205.000	239.35
18.700	0.33	133.74	135.66	0.96	0.00	12,091.000	239.34
18.750	0.33	132.48	134.40	0.96	0.00	11,977.000	239.33
18.800	0.33	131.23	133.15	0.96	0.00	11,863.000	239.31
18.850	0.33	129.96	131.88	0.96	0.00	11,749.000	239.30
18.900	0.33	128.70	130.62	0.96	0.00	11,634.000	239.29
18.950	0.33	127.43	129.35	0.96	0.00	11,520.000	239.28
19.000	0.32	126.16	128.08	0.96	0.00	11,405.000	239.27
19.050	0.32	124.89	126.81	0.96	0.00	11,290.000	239.26
19.100	0.32	123.61	125.53	0.96	0.00	11,175.000	239.24
19.150	0.32	122.33	124.25	0.96	0.00	11,060.000	239.23

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
19.200	0.32	121.04	122.96	0.96	0.00	10,945.000	239.22
19.250	0.32	119.76	121.68	0.96	0.00	10,830.000	239.21
19.300	0.31	118.47	120.39	0.96	0.00	10,714.000	239.20
19.350	0.31	117.17	119.09	0.96	0.00	10,599.000	239.18
19.400	0.31	115.88	117.80	0.96	0.00	10,483.000	239.17
19.450	0.31	114.58	116.50	0.96	0.00	10,367.000	239.16
19.500	0.31	113.27	115.19	0.96	0.00	10,251.000	239.15
19.550	0.31	111.97	113.89	0.96	0.00	10,135.000	239.14
19.600	0.30	110.66	112.58	0.96	0.00	10,019.000	239.12
19.650	0.30	109.35	111.27	0.96	0.00	9,903.000	239.11
19.700	0.30	108.03	109.95	0.96	0.00	9,786.000	239.10
19.750	0.30	106.71	108.63	0.96	0.00	9,670.000	239.09
19.800	0.30	105.39	107.31	0.96	0.00	9,553.000	239.07
19.850	0.30	104.06	105.98	0.96	0.00	9,437.000	239.06
19.900	0.29	102.73	104.65	0.96	0.00	9,320.000	239.05
19.950	0.29	101.40	103.32	0.96	0.00	9,203.000	239.04
20.000	0.29	100.07	101.99	0.96	0.00	9,086.000	239.02
20.050	0.29	98.73	100.65	0.96	0.00	8,969.000	239.01
20.100	0.29	97.39	99.31	0.96	0.00	8,851.000	239.00
20.150	0.29	96.04	97.96	0.96	0.00	8,727.000	238.99
20.200	0.29	94.70	96.62	0.96	0.00	8,602.000	238.97
20.250	0.29	93.35	95.27	0.96	0.00	8,478.000	238.96
20.300	0.28	92.00	93.92	0.96	0.00	8,353.000	238.95
20.350	0.28	90.65	92.57	0.96	0.00	8,229.000	238.93
20.400	0.28	89.29	91.21	0.96	0.00	8,104.000	238.92
20.450	0.28	87.93	89.85	0.96	0.00	7,979.000	238.91
20.500	0.28	86.57	88.49	0.96	0.00	7,854.000	238.89
20.550	0.28	85.21	87.13	0.96	0.00	7,730.000	238.88
20.600	0.28	83.84	85.76	0.96	0.00	7,605.000	238.87
20.650	0.28	82.48	84.40	0.96	0.00	7,480.000	238.85
20.700	0.27	81.10	83.02	0.96	0.00	7,355.000	238.84
20.750	0.27	79.73	81.65	0.96	0.00	7,230.000	238.83
20.800	0.27	78.35	80.27	0.96	0.00	7,106.000	238.81
20.850	0.27	76.98	78.90	0.96	0.00	6,981.000	238.80
20.900	0.27	75.60	77.52	0.96	0.00	6,856.000	238.79
20.950	0.27	74.21	76.13	0.96	0.00	6,731.000	238.77
21.000	0.27	72.83	74.75	0.96	0.00	6,606.000	238.76
21.050	0.27	71.45	73.37	0.96	0.00	6,482.000	238.74
21.100	0.26	70.06	71.98	0.96	0.00	6,357.000	238.73
21.150	0.26	68.66	70.58	0.96	0.00	6,232.000	238.72
21.200	0.26	67.27	69.19	0.96	0.00	6,107.000	238.70
21.250	0.26	65.87	67.79	0.96	0.00	5,982.000	238.69
21.300	0.26	64.47	66.39	0.96	0.00	5,857.000	238.68
21.350	0.26	63.07	64.99	0.96	0.00	5,732.000	238.66
21.400	0.26	61.67	63.59	0.96	0.00	5,608.000	238.65
21.450	0.26	60.26	62.18	0.96	0.00	5,483.000	238.63

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
21.500	0.25	58.85	60.77	0.96	0.00	5,358.000	238.62
21.550	0.25	57.44	59.36	0.96	0.00	5,233.000	238.61
21.600	0.25	56.02	57.94	0.96	0.00	5,108.000	238.59
21.650	0.25	54.61	56.53	0.96	0.00	4,983.000	238.58
21.700	0.25	53.19	55.11	0.96	0.00	4,858.000	238.56
21.750	0.25	51.77	53.69	0.96	0.00	4,733.000	238.55
21.800	0.25	50.34	52.26	0.96	0.00	4,608.000	238.54
21.850	0.25	48.92	50.84	0.96	0.00	4,483.000	238.52
21.900	0.24	47.49	49.41	0.96	0.00	4,358.000	238.51
21.950	0.24	46.08	47.98	0.95	0.00	4,231.000	238.49
22.000	0.24	44.73	46.57	0.92	0.00	4,103.000	238.48
22.050	0.24	43.43	45.22	0.89	0.00	3,980.000	238.47
22.100	0.24	42.18	43.91	0.87	0.00	3,862.000	238.45
22.150	0.24	40.97	42.66	0.84	0.00	3,749.000	238.44
22.200	0.24	39.81	41.45	0.82	0.00	3,640.000	238.43
22.250	0.24	38.69	40.29	0.80	0.00	3,535.000	238.41
22.300	0.23	37.62	39.16	0.77	0.00	3,434.000	238.40
22.350	0.23	36.58	38.08	0.75	0.00	3,337.000	238.39
22.400	0.23	35.58	37.05	0.73	0.00	3,244.000	238.38
22.450	0.23	34.63	36.05	0.71	0.00	3,154.000	238.37
22.500	0.23	33.70	35.09	0.69	0.00	3,068.000	238.36
22.550	0.23	32.81	34.16	0.67	0.00	2,985.000	238.35
22.600	0.23	31.95	33.27	0.66	0.00	2,906.000	238.34
22.650	0.23	31.13	32.41	0.64	0.00	2,829.000	238.33
22.700	0.23	30.34	31.58	0.62	0.00	2,756.000	238.32
22.750	0.22	29.57	30.78	0.61	0.00	2,685.000	238.32
22.800	0.22	28.83	30.02	0.59	0.00	2,616.000	238.31
22.850	0.22	28.12	29.27	0.58	0.00	2,550.000	238.30
22.900	0.22	27.43	28.56	0.56	0.00	2,487.000	238.29
22.950	0.22	26.77	27.87	0.55	0.00	2,426.000	238.29
23.000	0.22	26.13	27.21	0.54	0.00	2,367.000	238.28
23.050	0.22	25.52	26.57	0.52	0.00	2,311.000	238.27
23.100	0.21	24.93	25.95	0.51	0.00	2,256.000	238.27
23.150	0.21	24.35	25.35	0.50	0.00	2,203.000	238.26
23.200	0.21	23.80	24.78	0.49	0.00	2,152.000	238.25
23.250	0.21	23.27	24.23	0.48	0.00	2,104.000	238.25
23.300	0.21	22.76	23.69	0.47	0.00	2,056.000	238.24
23.350	0.21	22.26	23.18	0.46	0.00	2,011.000	238.24
23.400	0.21	21.78	22.68	0.45	0.00	1,967.000	238.23
23.450	0.21	21.32	22.20	0.44	0.00	1,925.000	238.23
23.500	0.21	20.88	21.74	0.43	0.00	1,884.000	238.22
23.550	0.20	20.45	21.29	0.42	0.00	1,845.000	238.22
23.600	0.20	20.03	20.85	0.41	0.00	1,807.000	238.21
23.650	0.20	19.63	20.43	0.40	0.00	1,770.000	238.21
23.700	0.20	19.24	20.03	0.40	0.00	1,734.000	238.21
23.750	0.20	18.86	19.64	0.39	0.00	1,700.000	238.20

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 2 years
Label: IB-1E (OUT) Storm Event: 2 year
Scenario: Post-Development 2 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
23.800	0.20	18.50	19.26	0.38	0.00	1,667.000	238.20
23.850	0.20	18.15	18.90	0.37	0.00	1,635.000	238.19
23.900	0.19	17.81	18.54	0.37	0.00	1,604.000	238.19
23.950	0.19	17.48	18.20	0.36	0.00	1,574.000	238.19
24.000	0.19	17.16	17.87	0.35	0.00	1,545.000	238.18

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1E (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1E (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
1.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1E (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
3.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) — Return Event: 10 years
Label: IB-1E (OUT) — Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
6.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
6.700	0.00	0.01	0.01	0.00	0.00	0.000	238.00
6.750	0.01	0.02	0.02	0.00	0.00	2.000	238.00
6.800	0.01	0.04	0.04	0.00	0.00	3.000	238.00
6.850	0.02	0.06	0.07	0.00	0.00	6.000	238.00
6.900	0.02	0.10	0.10	0.00	0.00	9.000	238.00
6.950	0.02	0.13	0.14	0.00	0.00	12.000	238.00
7.000	0.03	0.18	0.19	0.00	0.00	16.000	238.00
7.050	0.03	0.23	0.24	0.00	0.00	21.000	238.00
7.100	0.04	0.29	0.30	0.01	0.00	26.000	238.00
7.150	0.04	0.35	0.37	0.01	0.00	31.000	238.00
7.200	0.05	0.42	0.44	0.01	0.00	38.000	238.00
7.250	0.05	0.50	0.52	0.01	0.00	45.000	238.01
7.300	0.06	0.58	0.61	0.01	0.00	52.000	238.01
7.350	0.06	0.67	0.70	0.01	0.00	60.000	238.01
7.400	0.07	0.77	0.80	0.02	0.00	68.000	238.01
7.450	0.07	0.87	0.91	0.02	0.00	78.000	238.01
7.500	0.08	0.98	1.02	0.02	0.00	87.000	238.01
7.550	0.08	1.09	1.14	0.02	0.00	97.000	238.01
7.600	0.09	1.21	1.26	0.02	0.00	108.000	238.01
7.650	0.09	1.34	1.40	0.03	0.00	119.000	238.01
7.700	0.10	1.47	1.53	0.03	0.00	131.000	238.02
7.750	0.11	1.61	1.68	0.03	0.00	144.000	238.02
7.800	0.11	1.76	1.83	0.04	0.00	156.000	238.02
7.850	0.12	1.91	1.98	0.04	0.00	170.000	238.02
7.900	0.12	2.06	2.15	0.04	0.00	184.000	238.02
7.950	0.13	2.23	2.32	0.05	0.00	198.000	238.02
8.000	0.14	2.39	2.49	0.05	0.00	213.000	238.03
8.050	0.14	2.57	2.67	0.05	0.00	229.000	238.03
8.100	0.15	2.75	2.86	0.06	0.00	245.000	238.03
8.150	0.16	2.94	3.06	0.06	0.00	262.000	238.03
8.200	0.17	3.14	3.27	0.06	0.00	280.000	238.03
8.250	0.18	3.35	3.49	0.07	0.00	299.000	238.04
8.300	0.19	3.57	3.72	0.07	0.00	318.000	238.04
8.350	0.20	3.80	3.96	0.08	0.00	339.000	238.04
8.400	0.21	4.04	4.21	0.08	0.00	361.000	238.04
8.450	0.22	4.29	4.47	0.09	0.00	383.000	238.05

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out)
Return Event: 10 years
Label: IB-1E (OUT)
Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
8.500	0.23	4.56	4.74	0.09	0.00	407.000	238.05
8.550	0.24	4.83	5.03	0.10	0.00	431.000	238.05
8.600	0.25	5.11	5.32	0.11	0.00	457.000	238.05
8.650	0.27	5.41	5.63	0.11	0.00	483.000	238.06
8.700	0.28	5.72	5.95	0.12	0.00	511.000	238.06
8.750	0.29	6.04	6.28	0.12	0.00	539.000	238.06
8.800	0.30	6.37	6.63	0.13	0.00	569.000	238.07
8.850	0.32	6.71	6.99	0.14	0.00	600.000	238.07
8.900	0.33	7.06	7.35	0.15	0.00	632.000	238.08
8.950	0.34	7.43	7.74	0.15	0.00	665.000	238.08
9.000	0.36	7.81	8.13	0.16	0.00	699.000	238.08
9.050	0.37	8.20	8.54	0.17	0.00	734.000	238.09
9.100	0.39	8.61	8.96	0.18	0.00	770.000	238.09
9.150	0.40	9.02	9.39	0.19	0.00	808.000	238.10
9.200	0.42	9.45	9.84	0.19	0.00	846.000	238.10
9.250	0.43	9.89	10.30	0.20	0.00	886.000	238.11
9.300	0.45	10.35	10.77	0.21	0.00	927.000	238.11
9.350	0.46	10.82	11.26	0.22	0.00	970.000	238.12
9.400	0.48	11.30	11.76	0.23	0.00	1,013.000	238.12
9.450	0.50	11.79	12.28	0.24	0.00	1,058.000	238.13
9.500	0.51	12.30	12.80	0.25	0.00	1,103.000	238.13
9.550	0.53	12.82	13.34	0.26	0.00	1,150.000	238.14
9.600	0.55	13.35	13.90	0.27	0.00	1,199.000	238.14
9.650	0.57	13.89	14.47	0.29	0.00	1,248.000	238.15
9.700	0.59	14.45	15.05	0.30	0.00	1,299.000	238.15
9.750	0.60	15.02	15.64	0.31	0.00	1,351.000	238.16
9.800	0.62	15.61	16.25	0.32	0.00	1,404.000	238.17
9.850	0.64	16.21	16.87	0.33	0.00	1,458.000	238.17
9.900	0.66	16.82	17.51	0.35	0.00	1,514.000	238.18
9.950	0.68	17.44	18.16	0.36	0.00	1,571.000	238.19
10.000	0.70	18.08	18.82	0.37	0.00	1,629.000	238.19
10.050	0.72	18.73	19.50	0.39	0.00	1,688.000	238.20
10.100	0.75	19.41	20.20	0.40	0.00	1,750.000	238.21
10.150	0.78	20.10	20.93	0.41	0.00	1,814.000	238.22
10.200	0.81	20.83	21.69	0.43	0.00	1,880.000	238.22
10.250	0.84	21.59	22.48	0.44	0.00	1,950.000	238.23
10.300	0.87	22.38	23.30	0.46	0.00	2,022.000	238.24
10.350	0.90	23.21	24.16	0.48	0.00	2,098.000	238.25
10.400	0.94	24.06	25.05	0.49	0.00	2,176.000	238.26
10.450	0.97	24.95	25.97	0.51	0.00	2,258.000	238.27
10.500	1.01	25.86	26.93	0.53	0.00	2,342.000	238.28
10.550	1.04	26.81	27.92	0.55	0.00	2,430.000	238.29
10.600	1.08	27.79	28.94	0.57	0.00	2,520.000	238.30
10.650	1.12	28.81	29.99	0.59	0.00	2,614.000	238.31
10.700	1.15	29.85	31.08	0.61	0.00	2,711.000	238.32
10.750	1.19	30.92	32.20	0.64	0.00	2,810.000	238.33

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
10.800	1.23	32.03	33.35	0.66	0.00	2,913.000	238.34
10.850	1.27	33.17	34.53	0.68	0.00	3,019.000	238.36
10.900	1.31	34.34	35.75	0.71	0.00	3,128.000	238.37
10.950	1.35	35.54	37.00	0.73	0.00	3,240.000	238.38
11.000	1.39	36.78	38.29	0.76	0.00	3,355.000	238.39
11.050	1.46	38.06	39.63	0.78	0.00	3,476.000	238.41
11.100	1.54	39.44	41.06	0.81	0.00	3,605.000	238.42
11.150	1.64	40.93	42.62	0.84	0.00	3,745.000	238.44
11.200	1.76	42.58	44.33	0.88	0.00	3,900.000	238.46
11.250	1.88	44.38	46.21	0.91	0.00	4,070.000	238.48
11.300	2.00	46.35	48.26	0.95	0.00	4,257.000	238.50
11.350	2.13	48.56	50.48	0.96	0.00	4,452.000	238.52
11.400	2.26	51.02	52.94	0.96	0.00	4,668.000	238.54
11.450	2.39	53.75	55.67	0.96	0.00	4,907.000	238.57
11.500	2.53	56.75	58.67	0.96	0.00	5,172.000	238.60
11.550	3.01	60.37	62.29	0.96	0.00	5,492.000	238.63
11.600	3.60	65.05	66.97	0.96	0.00	5,909.000	238.68
11.650	4.59	71.32	73.24	0.96	0.00	6,471.000	238.74
11.700	5.73	79.72	81.64	0.96	0.00	7,229.000	238.83
11.750	6.95	90.48	92.40	0.96	0.00	8,213.000	238.93
11.800	8.26	103.78	105.70	0.96	0.00	9,411.000	239.06
11.850	9.64	119.75	121.67	0.96	0.00	10,829.000	239.21
11.900	11.09	138.57	140.49	0.96	0.00	12,532.000	239.38
11.950	16.09	163.83	165.75	0.96	0.00	14,813.000	239.61
12.000	22.38	200.24	202.31	0.96	0.08	18,113.000	239.93
12.050	24.61	241.07	247.23	0.96	2.12	21,937.000	240.29
12.100	25.74	279.92	291.42	0.96	4.79	25,682.000	240.63
12.150	21.52	310.31	327.18	0.96	7.47	28,660.000	240.89
12.200	15.64	327.48	347.47	0.96	9.04	30,363.000	241.03
12.250	13.21	334.84	356.33	0.96	9.78	31,079.000	241.09
12.300	11.61	337.62	359.67	0.96	10.06	31,350.000	241.11
12.350	10.19	337.41	359.42	0.96	10.04	31,330.000	241.11
12.400	8.78	334.89	356.38	0.96	9.79	31,084.000	241.09
12.450	7.36	330.43	351.03	0.96	9.34	30,650.000	241.06
12.500	5.91	324.35	343.71	0.96	8.72	30,061.000	241.01
12.550	4.96	317.15	335.22	0.96	8.08	29,341.000	240.94
12.600	4.11	309.49	326.22	0.96	7.40	28,579.000	240.88
12.650	3.80	302.00	317.40	0.96	6.74	27,838.000	240.81
12.700	3.61	295.21	309.41	0.96	6.14	27,170.000	240.76
12.750	3.45	289.14	302.27	0.96	5.61	26,576.000	240.71
12.800	3.30	283.72	295.89	0.96	5.13	26,049.000	240.66
12.850	3.15	278.85	290.17	0.96	4.70	25,579.000	240.62
12.900	3.00	274.46	285.01	0.96	4.31	25,156.000	240.58
12.950	2.85	270.47	280.31	0.96	3.96	24,773.000	240.55
13.000	2.69	266.82	276.01	0.96	3.64	24,423.000	240.51
13.050	2.58	263.40	272.10	0.96	3.39	24,093.000	240.48

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
13.100	2.48	260.14	268.47	0.96	3.20	23,776.000	240.46
13.150	2.43	257.08	265.06	0.96	3.03	23,478.000	240.43
13.200	2.39	254.24	261.90	0.96	2.87	23,204.000	240.40
13.250	2.35	251.63	258.99	0.96	2.72	22,951.000	240.38
13.300	2.31	249.21	256.29	0.96	2.58	22,717.000	240.36
13.350	2.27	246.96	253.79	0.96	2.45	22,502.000	240.34
13.400	2.23	244.88	251.47	0.96	2.34	22,302.000	240.32
13.450	2.19	242.94	249.31	0.96	2.22	22,116.000	240.31
13.500	2.16	241.12	247.29	0.96	2.12	21,942.000	240.29
13.550	2.12	239.43	245.40	0.96	2.02	21,780.000	240.27
13.600	2.08	237.83	243.62	0.96	1.93	21,628.000	240.26
13.650	2.04	236.33	241.94	0.96	1.85	21,485.000	240.25
13.700	2.00	234.90	240.36	0.96	1.77	21,350.000	240.24
13.750	1.96	233.56	238.86	0.96	1.69	21,222.000	240.22
13.800	1.92	232.27	237.43	0.96	1.62	21,100.000	240.21
13.850	1.88	231.05	236.07	0.96	1.55	20,985.000	240.20
13.900	1.84	229.88	234.76	0.96	1.48	20,874.000	240.19
13.950	1.80	228.76	233.51	0.96	1.42	20,768.000	240.18
14.000	1.76	227.68	232.31	0.96	1.36	20,666.000	240.17
14.050	1.72	226.64	231.16	0.96	1.30	20,568.000	240.16
14.100	1.69	225.66	230.06	0.96	1.24	20,475.000	240.15
14.150	1.67	224.72	229.02	0.96	1.19	20,388.000	240.15
14.200	1.65	223.85	228.05	0.96	1.14	20,306.000	240.14
14.250	1.63	223.03	227.13	0.96	1.09	20,229.000	240.13
14.300	1.61	222.26	226.28	0.96	1.05	20,156.000	240.12
14.350	1.59	221.53	225.47	0.96	1.01	20,088.000	240.12
14.400	1.58	220.85	224.70	0.96	0.97	20,024.000	240.11
14.450	1.56	220.20	223.98	0.96	0.93	19,963.000	240.11
14.500	1.54	219.58	223.29	0.96	0.90	19,905.000	240.10
14.550	1.52	218.99	222.63	0.96	0.86	19,850.000	240.10
14.600	1.50	218.43	222.01	0.96	0.83	19,797.000	240.09
14.650	1.48	217.89	221.40	0.96	0.80	19,747.000	240.09
14.700	1.46	217.37	220.82	0.96	0.77	19,698.000	240.08
14.750	1.44	216.86	220.26	0.96	0.74	19,651.000	240.08
14.800	1.42	216.38	219.72	0.96	0.71	19,606.000	240.07
14.850	1.40	215.91	219.20	0.96	0.69	19,562.000	240.07
14.900	1.38	215.45	218.69	0.96	0.66	19,520.000	240.06
14.950	1.36	215.00	218.19	0.96	0.63	19,478.000	240.06
15.000	1.34	214.57	217.71	0.96	0.61	19,437.000	240.06
15.050	1.32	214.14	217.23	0.96	0.59	19,398.000	240.05
15.100	1.30	213.72	216.77	0.96	0.56	19,359.000	240.05
15.150	1.28	213.31	216.31	0.96	0.54	19,321.000	240.05
15.200	1.26	212.91	215.86	0.96	0.52	19,283.000	240.04
15.250	1.24	212.51	215.42	0.96	0.49	19,246.000	240.04
15.300	1.22	212.12	214.98	0.96	0.47	19,210.000	240.04
15.350	1.20	211.73	214.55	0.96	0.45	19,174.000	240.03

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1E (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft^3/s)	2S/t - O (ft^3/s)	2S/t + O (ft^3/s)	Infiltration (ft^3/s)	Flow (Outlet) (ft^3/s)	Volume (ft^3)	Elevation (ft)
15.400	1.19	211.35	214.12	0.96	0.43	19,138.000	240.03
15.450	1.17	210.97	213.70	0.96	0.41	19,103.000	240.03
15.500	1.14	210.59	213.28	0.96	0.38	19,068.000	240.02
15.550	1.13	210.22	212.86	0.96	0.36	19,033.000	240.02
15.600	1.11	209.85	212.45	0.96	0.34	18,999.000	240.02
15.650	1.09	209.48	212.04	0.96	0.32	18,965.000	240.01
15.700	1.07	209.11	211.63	0.96	0.30	18,931.000	240.01
15.750	1.05	208.74	211.22	0.96	0.28	18,897.000	240.01
15.800	1.03	208.38	210.82	0.96	0.26	18,863.000	240.00
15.850	1.01	208.02	210.41	0.96	0.24	18,829.000	240.00
15.900	0.99	207.63	210.01	0.96	0.23	18,794.000	240.00
15.950	0.97	207.22	209.58	0.96	0.22	18,756.000	239.99
16.000	0.95	206.79	209.13	0.96	0.21	18,716.000	239.99
16.050	0.93	206.34	208.66	0.96	0.20	18,674.000	239.99
16.100	0.92	205.88	208.19	0.96	0.19	18,632.000	239.98
16.150	0.91	205.42	207.70	0.96	0.18	18,589.000	239.98
16.200	0.90	204.95	207.22	0.96	0.17	18,546.000	239.97
16.250	0.89	204.48	206.73	0.96	0.16	18,503.000	239.97
16.300	0.88	204.02	206.25	0.96	0.15	18,461.000	239.96
16.350	0.87	203.56	205.77	0.96	0.14	18,419.000	239.96
16.400	0.86	203.10	205.29	0.96	0.14	18,376.000	239.96
16.450	0.85	202.64	204.82	0.96	0.13	18,334.000	239.95
16.500	0.85	202.19	204.34	0.96	0.12	18,293.000	239.95
16.550	0.84	201.74	203.87	0.96	0.11	18,251.000	239.94
16.600	0.83	201.28	203.40	0.96	0.10	18,209.000	239.94
16.650	0.82	200.83	202.93	0.96	0.09	18,168.000	239.94
16.700	0.81	200.38	202.46	0.96	0.08	18,127.000	239.93
16.750	0.80	199.94	202.00	0.96	0.07	18,086.000	239.93
16.800	0.79	199.49	201.53	0.96	0.06	18,045.000	239.93
16.850	0.78	199.04	201.06	0.96	0.05	18,004.000	239.92
16.900	0.78	198.60	200.60	0.96	0.04	17,963.000	239.92
16.950	0.77	198.16	200.14	0.96	0.03	17,923.000	239.91
17.000	0.76	197.71	199.68	0.96	0.02	17,882.000	239.91
17.050	0.75	197.27	199.22	0.96	0.01	17,842.000	239.91
17.100	0.74	196.83	198.76	0.96	0.00	17,801.000	239.90
17.150	0.73	196.38	198.30	0.96	0.00	17,760.000	239.90
17.200	0.72	195.92	197.84	0.96	0.00	17,717.000	239.89
17.250	0.71	195.43	197.35	0.96	0.00	17,673.000	239.89
17.300	0.71	194.93	196.85	0.96	0.00	17,627.000	239.89
17.350	0.70	194.41	196.33	0.96	0.00	17,579.000	239.88
17.400	0.69	193.88	195.80	0.96	0.00	17,530.000	239.88
17.450	0.68	193.32	195.24	0.96	0.00	17,479.000	239.87
17.500	0.67	192.75	194.67	0.96	0.00	17,427.000	239.87
17.550	0.66	192.16	194.08	0.96	0.00	17,373.000	239.86
17.600	0.65	191.56	193.48	0.96	0.00	17,317.000	239.86
17.650	0.64	190.93	192.85	0.96	0.00	17,260.000	239.85

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) | Return Event: 10 years
Label: IB-1E (OUT) | Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
17.700	0.64	190.29	192.21	0.96	0.00	17,201.000	239.84
17.750	0.63	189.63	191.55	0.96	0.00	17,141.000	239.84
17.800	0.62	188.96	190.88	0.96	0.00	17,079.000	239.83
17.850	0.61	188.26	190.18	0.96	0.00	17,016.000	239.83
17.900	0.60	187.55	189.47	0.96	0.00	16,951.000	239.82
17.950	0.59	186.82	188.74	0.96	0.00	16,885.000	239.81
18.000	0.58	186.08	188.00	0.96	0.00	16,816.000	239.81
18.050	0.57	185.31	187.23	0.96	0.00	16,747.000	239.80
18.100	0.57	184.53	186.45	0.96	0.00	16,676.000	239.79
18.150	0.57	183.75	185.67	0.96	0.00	16,605.000	239.79
18.200	0.56	182.96	184.88	0.96	0.00	16,533.000	239.78
18.250	0.56	182.16	184.08	0.96	0.00	16,461.000	239.77
18.300	0.56	181.36	183.28	0.96	0.00	16,388.000	239.77
18.350	0.56	180.56	182.48	0.96	0.00	16,315.000	239.76
18.400	0.55	179.75	181.67	0.96	0.00	16,241.000	239.75
18.450	0.55	178.93	180.85	0.96	0.00	16,168.000	239.74
18.500	0.55	178.11	180.03	0.96	0.00	16,093.000	239.74
18.550	0.55	177.28	179.20	0.96	0.00	16,019.000	239.73
18.600	0.54	176.45	178.37	0.96	0.00	15,944.000	239.72
18.650	0.54	175.61	177.53	0.96	0.00	15,868.000	239.72
18.700	0.54	174.77	176.69	0.96	0.00	15,792.000	239.71
18.750	0.53	173.92	175.84	0.96	0.00	15,716.000	239.70
18.800	0.53	173.07	174.99	0.96	0.00	15,639.000	239.69
18.850	0.53	172.21	174.13	0.96	0.00	15,562.000	239.69
18.900	0.53	171.35	173.27	0.96	0.00	15,485.000	239.68
18.950	0.52	170.48	172.40	0.96	0.00	15,407.000	239.67
19.000	0.52	169.61	171.53	0.96	0.00	15,328.000	239.66
19.050	0.52	168.73	170.65	0.96	0.00	15,250.000	239.65
19.100	0.52	167.84	169.76	0.96	0.00	15,171.000	239.65
19.150	0.51	166.95	168.87	0.96	0.00	15,091.000	239.64
19.200	0.51	166.06	167.98	0.96	0.00	15,011.000	239.63
19.250	0.51	165.16	167.08	0.96	0.00	14,931.000	239.62
19.300	0.51	164.26	166.18	0.96	0.00	14,850.000	239.62
19.350	0.50	163.35	165.27	0.96	0.00	14,769.000	239.61
19.400	0.50	162.43	164.35	0.96	0.00	14,688.000	239.60
19.450	0.50	161.51	163.43	0.96	0.00	14,606.000	239.59
19.500	0.50	160.58	162.50	0.96	0.00	14,524.000	239.58
19.550	0.49	159.65	161.57	0.96	0.00	14,441.000	239.57
19.600	0.49	158.72	160.64	0.96	0.00	14,358.000	239.57
19.650	0.49	157.78	159.70	0.96	0.00	14,275.000	239.56
19.700	0.48	156.83	158.75	0.96	0.00	14,191.000	239.55
19.750	0.48	155.87	157.79	0.96	0.00	14,106.000	239.54
19.800	0.48	154.92	156.84	0.96	0.00	14,022.000	239.53
19.850	0.48	153.96	155.88	0.96	0.00	13,937.000	239.52
19.900	0.47	152.99	154.91	0.96	0.00	13,852.000	239.52
19.950	0.47	152.01	153.93	0.96	0.00	13,766.000	239.51

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1E (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
20.000	0.47	151.04	152.96	0.96	0.00	13,679.000	239.50
20.050	0.47	150.05	151.97	0.96	0.00	13,588.000	239.49
20.100	0.46	149.06	150.98	0.96	0.00	13,497.000	239.48
20.150	0.46	148.07	149.99	0.96	0.00	13,405.000	239.47
20.200	0.46	147.07	148.99	0.96	0.00	13,313.000	239.46
20.250	0.46	146.08	148.00	0.96	0.00	13,221.000	239.45
20.300	0.46	145.07	146.99	0.96	0.00	13,129.000	239.44
20.350	0.45	144.06	145.98	0.96	0.00	13,036.000	239.43
20.400	0.45	143.05	144.97	0.96	0.00	12,943.000	239.42
20.450	0.45	142.04	143.96	0.96	0.00	12,849.000	239.41
20.500	0.45	141.01	142.93	0.96	0.00	12,756.000	239.41
20.550	0.45	139.99	141.91	0.96	0.00	12,662.000	239.40
20.600	0.45	138.96	140.88	0.96	0.00	12,568.000	239.39
20.650	0.44	137.93	139.85	0.96	0.00	12,474.000	239.38
20.700	0.44	136.89	138.81	0.96	0.00	12,379.000	239.37
20.750	0.44	135.85	137.77	0.96	0.00	12,284.000	239.36
20.800	0.44	134.81	136.73	0.96	0.00	12,189.000	239.35
20.850	0.44	133.76	135.68	0.96	0.00	12,093.000	239.34
20.900	0.43	132.71	134.63	0.96	0.00	11,998.000	239.33
20.950	0.43	131.65	133.57	0.96	0.00	11,902.000	239.32
21.000	0.43	130.59	132.51	0.96	0.00	11,806.000	239.31
21.050	0.43	129.53	131.45	0.96	0.00	11,710.000	239.30
21.100	0.42	128.47	130.39	0.96	0.00	11,613.000	239.29
21.150	0.42	127.39	129.31	0.96	0.00	11,516.000	239.28
21.200	0.42	126.32	128.24	0.96	0.00	11,419.000	239.27
21.250	0.42	125.24	127.16	0.96	0.00	11,322.000	239.26
21.300	0.42	124.15	126.07	0.96	0.00	11,225.000	239.25
21.350	0.42	123.07	124.99	0.96	0.00	11,127.000	239.24
21.400	0.41	121.98	123.90	0.96	0.00	11,029.000	239.23
21.450	0.41	120.88	122.80	0.96	0.00	10,931.000	239.22
21.500	0.41	119.78	121.70	0.96	0.00	10,832.000	239.21
21.550	0.41	118.67	120.59	0.96	0.00	10,733.000	239.20
21.600	0.41	117.57	119.49	0.96	0.00	10,634.000	239.19
21.650	0.40	116.46	118.38	0.96	0.00	10,535.000	239.18
21.700	0.40	115.34	117.26	0.96	0.00	10,435.000	239.17
21.750	0.40	114.22	116.14	0.96	0.00	10,336.000	239.16
21.800	0.40	113.10	115.02	0.96	0.00	10,236.000	239.15
21.850	0.40	111.98	113.90	0.96	0.00	10,136.000	239.14
21.900	0.39	110.85	112.77	0.96	0.00	10,036.000	239.13
21.950	0.39	109.71	111.63	0.96	0.00	9,935.000	239.11
22.000	0.39	108.57	110.49	0.96	0.00	9,834.000	239.10
22.050	0.39	107.43	109.35	0.96	0.00	9,733.000	239.09
22.100	0.39	106.28	108.20	0.96	0.00	9,632.000	239.08
22.150	0.38	105.13	107.05	0.96	0.00	9,531.000	239.07
22.200	0.38	103.98	105.90	0.96	0.00	9,429.000	239.06
22.250	0.38	102.82	104.74	0.96	0.00	9,327.000	239.05

Subsection: Pond Routing Calculations (Total Out) Return Event: 10 years
Label: IB-1E (OUT) Storm Event: 10 year
Scenario: Post-Development 10 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
22.300	0.38	101.65	103.57	0.96	0.00	9,225.000	239.04
22.350	0.37	100.48	102.40	0.96	0.00	9,122.000	239.03
22.400	0.37	99.31	101.23	0.96	0.00	9,020.000	239.02
22.450	0.37	98.14	100.06	0.96	0.00	8,917.000	239.01
22.500	0.37	96.96	98.88	0.96	0.00	8,812.000	239.00
22.550	0.37	95.78	97.70	0.96	0.00	8,702.000	238.98
22.600	0.37	94.59	96.51	0.96	0.00	8,592.000	238.97
22.650	0.36	93.40	95.32	0.96	0.00	8,483.000	238.96
22.700	0.36	92.21	94.13	0.96	0.00	8,372.000	238.95
22.750	0.36	91.01	92.93	0.96	0.00	8,262.000	238.94
22.800	0.36	89.81	91.73	0.96	0.00	8,151.000	238.93
22.850	0.36	88.60	90.52	0.96	0.00	8,040.000	238.91
22.900	0.35	87.39	89.31	0.96	0.00	7,929.000	238.90
22.950	0.35	86.17	88.09	0.96	0.00	7,818.000	238.89
23.000	0.35	84.96	86.88	0.96	0.00	7,707.000	238.88
23.050	0.35	83.73	85.65	0.96	0.00	7,595.000	238.87
23.100	0.34	82.50	84.42	0.96	0.00	7,483.000	238.85
23.150	0.34	81.27	83.19	0.96	0.00	7,371.000	238.84
23.200	0.34	80.04	81.96	0.96	0.00	7,258.000	238.83
23.250	0.34	78.80	80.72	0.96	0.00	7,146.000	238.82
23.300	0.34	77.55	79.47	0.96	0.00	7,033.000	238.80
23.350	0.34	76.31	78.23	0.96	0.00	6,920.000	238.79
23.400	0.34	75.06	76.98	0.96	0.00	6,807.000	238.78
23.450	0.33	73.81	75.73	0.96	0.00	6,694.000	238.77
23.500	0.33	72.55	74.47	0.96	0.00	6,581.000	238.76
23.550	0.33	71.29	73.21	0.96	0.00	6,467.000	238.74
23.600	0.33	70.02	71.94	0.96	0.00	6,353.000	238.73
23.650	0.32	68.75	70.67	0.96	0.00	6,239.000	238.72
23.700	0.32	67.47	69.39	0.96	0.00	6,125.000	238.71
23.750	0.32	66.19	68.11	0.96	0.00	6,011.000	238.69
23.800	0.32	64.91	66.83	0.96	0.00	5,896.000	238.68
23.850	0.32	63.62	65.54	0.96	0.00	5,782.000	238.67
23.900	0.31	62.33	64.25	0.96	0.00	5,667.000	238.65
23.950	0.31	61.03	62.95	0.96	0.00	5,551.000	238.64
24.000	0.31	59.73	61.65	0.96	0.00	5,436.000	238.63

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1E (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1E (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1E (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
2.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1E (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
4.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
5.700	0.00	0.01	0.01	0.00	0.00	0.000	238.00
5.750	0.01	0.02	0.02	0.00	0.00	1.000	238.00
5.800	0.01	0.03	0.03	0.00	0.00	3.000	238.00
5.850	0.01	0.06	0.06	0.00	0.00	5.000	238.00
5.900	0.02	0.09	0.09	0.00	0.00	8.000	238.00
5.950	0.02	0.12	0.13	0.00	0.00	11.000	238.00
6.000	0.03	0.16	0.17	0.00	0.00	15.000	238.00
6.050	0.03	0.21	0.22	0.00	0.00	19.000	238.00
6.100	0.03	0.26	0.28	0.01	0.00	24.000	238.00
6.150	0.04	0.32	0.34	0.01	0.00	29.000	238.00
6.200	0.04	0.39	0.40	0.01	0.00	35.000	238.00
6.250	0.05	0.46	0.48	0.01	0.00	41.000	238.00
6.300	0.05	0.54	0.56	0.01	0.00	48.000	238.01
6.350	0.06	0.62	0.65	0.01	0.00	55.000	238.01
6.400	0.06	0.71	0.74	0.01	0.00	63.000	238.01
6.450	0.07	0.81	0.84	0.02	0.00	72.000	238.01
6.500	0.07	0.91	0.95	0.02	0.00	81.000	238.01
6.550	0.08	1.02	1.06	0.02	0.00	91.000	238.01
6.600	0.08	1.13	1.18	0.02	0.00	101.000	238.01
6.650	0.09	1.26	1.31	0.03	0.00	112.000	238.01
6.700	0.10	1.39	1.44	0.03	0.00	123.000	238.01
6.750	0.10	1.52	1.58	0.03	0.00	135.000	238.02
6.800	0.11	1.66	1.73	0.03	0.00	148.000	238.02
6.850	0.11	1.81	1.88	0.04	0.00	161.000	238.02
6.900	0.12	1.97	2.05	0.04	0.00	175.000	238.02
6.950	0.13	2.13	2.21	0.04	0.00	190.000	238.02

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1E (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
7.000	0.13	2.29	2.39	0.05	0.00	204.000	238.02
7.050	0.14	2.47	2.57	0.05	0.00	220.000	238.03
7.100	0.15	2.65	2.76	0.05	0.00	236.000	238.03
7.150	0.16	2.84	2.96	0.06	0.00	253.000	238.03
7.200	0.16	3.03	3.16	0.06	0.00	270.000	238.03
7.250	0.17	3.23	3.37	0.07	0.00	288.000	238.03
7.300	0.18	3.44	3.58	0.07	0.00	307.000	238.04
7.350	0.19	3.66	3.81	0.08	0.00	326.000	238.04
7.400	0.19	3.88	4.04	0.08	0.00	346.000	238.04
7.450	0.20	4.11	4.28	0.08	0.00	366.000	238.04
7.500	0.21	4.34	4.52	0.09	0.00	387.000	238.05
7.550	0.22	4.58	4.77	0.09	0.00	409.000	238.05
7.600	0.23	4.83	5.03	0.10	0.00	431.000	238.05
7.650	0.24	5.09	5.30	0.10	0.00	454.000	238.05
7.700	0.25	5.35	5.57	0.11	0.00	478.000	238.06
7.750	0.25	5.62	5.85	0.12	0.00	502.000	238.06
7.800	0.26	5.89	6.14	0.12	0.00	526.000	238.06
7.850	0.27	6.17	6.43	0.13	0.00	552.000	238.07
7.900	0.28	6.46	6.73	0.13	0.00	578.000	238.07
7.950	0.29	6.76	7.04	0.14	0.00	604.000	238.07
8.000	0.30	7.06	7.35	0.15	0.00	631.000	238.08
8.050	0.31	7.37	7.67	0.15	0.00	659.000	238.08
8.100	0.32	7.69	8.01	0.16	0.00	688.000	238.08
8.150	0.34	8.02	8.35	0.16	0.00	718.000	238.09
8.200	0.35	8.37	8.71	0.17	0.00	749.000	238.09
8.250	0.37	8.73	9.09	0.18	0.00	781.000	238.09
8.300	0.38	9.10	9.48	0.19	0.00	815.000	238.10
8.350	0.40	9.49	9.88	0.20	0.00	850.000	238.10
8.400	0.41	9.90	10.31	0.20	0.00	887.000	238.11
8.450	0.43	10.32	10.74	0.21	0.00	925.000	238.11
8.500	0.45	10.76	11.20	0.22	0.00	964.000	238.12
8.550	0.47	11.21	11.67	0.23	0.00	1,005.000	238.12
8.600	0.48	11.68	12.16	0.24	0.00	1,047.000	238.13
8.650	0.50	12.16	12.66	0.25	0.00	1,091.000	238.13
8.700	0.52	12.66	13.18	0.26	0.00	1,136.000	238.14
8.750	0.54	13.17	13.72	0.27	0.00	1,183.000	238.14
8.800	0.56	13.71	14.27	0.28	0.00	1,231.000	238.15
8.850	0.58	14.25	14.84	0.29	0.00	1,281.000	238.15
8.900	0.60	14.82	15.43	0.30	0.00	1,332.000	238.16
8.950	0.62	15.40	16.03	0.32	0.00	1,384.000	238.16
9.000	0.64	15.99	16.65	0.33	0.00	1,439.000	238.17
9.050	0.66	16.61	17.29	0.34	0.00	1,494.000	238.18
9.100	0.68	17.24	17.95	0.35	0.00	1,552.000	238.18
9.150	0.70	17.88	18.62	0.37	0.00	1,611.000	238.19
9.200	0.72	18.55	19.31	0.38	0.00	1,671.000	238.20
9.250	0.75	19.22	20.01	0.40	0.00	1,733.000	238.21

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years

Label: IB-1E (OUT) Storm Event: 25 year

Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
9.300	0.77	19.92	20.74	0.41	0.00	1,797.000	238.21
9.350	0.79	20.63	21.48	0.42	0.00	1,862.000	238.22
9.400	0.82	21.36	22.24	0.44	0.00	1,929.000	238.23
9.450	0.84	22.11	23.02	0.45	0.00	1,997.000	238.24
9.500	0.86	22.87	23.81	0.47	0.00	2,067.000	238.24
9.550	0.89	23.65	24.62	0.49	0.00	2,138.000	238.25
9.600	0.91	24.44	25.45	0.50	0.00	2,212.000	238.26
9.650	0.94	25.25	26.29	0.52	0.00	2,286.000	238.27
9.700	0.96	26.08	27.16	0.54	0.00	2,362.000	238.28
9.750	0.99	26.93	28.04	0.55	0.00	2,440.000	238.29
9.800	1.01	27.79	28.93	0.57	0.00	2,520.000	238.30
9.850	1.04	28.66	29.84	0.59	0.00	2,601.000	238.31
9.900	1.07	29.56	30.77	0.61	0.00	2,683.000	238.32
9.950	1.09	30.47	31.72	0.63	0.00	2,768.000	238.33
10.000	1.12	31.39	32.68	0.65	0.00	2,853.000	238.34
10.050	1.15	32.34	33.67	0.66	0.00	2,941.000	238.35
10.100	1.19	33.31	34.68	0.68	0.00	3,032.000	238.36
10.150	1.23	34.32	35.73	0.71	0.00	3,126.000	238.37
10.200	1.27	35.37	36.82	0.73	0.00	3,224.000	238.38
10.250	1.32	36.46	37.96	0.75	0.00	3,326.000	238.39
10.300	1.36	37.60	39.15	0.77	0.00	3,432.000	238.40
10.350	1.41	38.78	40.38	0.80	0.00	3,543.000	238.42
10.400	1.46	40.00	41.65	0.82	0.00	3,658.000	238.43
10.450	1.51	41.27	42.97	0.85	0.00	3,777.000	238.44
10.500	1.56	42.58	44.33	0.88	0.00	3,900.000	238.46
10.550	1.60	43.93	45.74	0.90	0.00	4,028.000	238.47
10.600	1.65	45.33	47.19	0.93	0.00	4,160.000	238.49
10.650	1.71	46.77	48.69	0.96	0.00	4,296.000	238.50
10.700	1.76	48.31	50.23	0.96	0.00	4,430.000	238.52
10.750	1.81	49.96	51.88	0.96	0.00	4,574.000	238.53
10.800	1.86	51.71	53.63	0.96	0.00	4,728.000	238.55
10.850	1.92	53.57	55.49	0.96	0.00	4,892.000	238.57
10.900	1.97	55.54	57.46	0.96	0.00	5,065.000	238.59
10.950	2.03	57.61	59.53	0.96	0.00	5,248.000	238.61
11.000	2.08	59.80	61.72	0.96	0.00	5,442.000	238.63
11.050	2.18	62.14	64.06	0.96	0.00	5,649.000	238.65
11.100	2.28	64.67	66.59	0.96	0.00	5,875.000	238.68
11.150	2.43	67.46	69.38	0.96	0.00	6,124.000	238.70
11.200	2.59	70.56	72.48	0.96	0.00	6,402.000	238.74
11.250	2.76	73.99	75.91	0.96	0.00	6,711.000	238.77
11.300	2.93	77.76	79.68	0.96	0.00	7,052.000	238.81
11.350	3.11	81.89	83.81	0.96	0.00	7,426.000	238.85
11.400	3.29	86.36	88.28	0.96	0.00	7,835.000	238.89
11.450	3.47	91.20	93.12	0.96	0.00	8,280.000	238.94
11.500	3.66	96.42	98.34	0.96	0.00	8,761.000	238.99
11.550	4.34	102.50	104.42	0.96	0.00	9,299.000	239.05

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) | Return Event: 25 years
Label: IB-1E (OUT) | Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
11.600	5.17	110.09	112.01	0.96	0.00	9,969.000	239.12
11.650	6.56	119.90	121.82	0.96	0.00	10,843.000	239.21
11.700	8.15	132.70	134.62	0.96	0.00	11,997.000	239.33
11.750	9.84	148.77	150.69	0.96	0.00	13,470.000	239.48
11.800	11.62	168.31	170.23	0.96	0.00	15,213.000	239.65
11.850	13.47	191.49	193.41	0.96	0.00	17,311.000	239.85
11.900	15.41	216.95	220.37	0.96	0.75	19,660.000	240.08
11.950	22.17	247.63	254.53	0.96	2.49	22,566.000	240.35
12.000	30.57	287.52	300.37	0.96	5.46	26,419.000	240.69
12.050	33.35	330.79	351.45	0.96	9.37	30,685.000	241.06
12.100	34.61	370.14	398.75	0.96	13.35	34,572.000	241.38
12.150	28.79	399.36	433.55	0.96	16.13	37,453.000	241.61
12.200	20.84	412.44	448.99	0.96	17.31	38,725.000	241.71
12.250	17.55	414.00	450.83	0.96	17.45	38,878.000	241.73
12.300	15.38	410.70	446.93	0.96	17.15	38,555.000	241.70
12.350	13.47	404.44	439.54	0.96	16.59	37,945.000	241.65
12.400	11.59	395.92	429.50	0.96	15.83	37,121.000	241.59
12.450	9.71	385.52	417.22	0.96	14.89	36,121.000	241.51
12.500	7.79	373.68	403.02	0.96	13.71	34,928.000	241.41
12.550	6.53	361.19	388.00	0.96	12.44	33,677.000	241.31
12.600	5.41	348.82	373.13	0.96	11.19	32,450.000	241.21
12.650	4.99	337.25	359.22	0.96	10.03	31,314.000	241.11
12.700	4.74	327.07	346.99	0.96	9.00	30,324.000	241.03
12.750	4.53	318.10	336.35	0.96	8.16	29,437.000	240.95
12.800	4.33	310.13	326.97	0.96	7.46	28,643.000	240.88
12.850	4.13	303.02	318.60	0.96	6.83	27,938.000	240.82
12.900	3.93	296.63	311.09	0.96	6.27	27,310.000	240.77
12.950	3.73	290.86	304.30	0.96	5.76	26,745.000	240.72
13.000	3.53	285.62	298.13	0.96	5.30	26,234.000	240.67
13.050	3.39	280.86	292.53	0.96	4.88	25,773.000	240.63
13.100	3.25	276.59	287.50	0.96	4.50	25,360.000	240.60
13.150	3.18	272.78	283.02	0.96	4.16	24,994.000	240.57
13.200	3.13	269.44	279.09	0.96	3.87	24,673.000	240.54
13.250	3.08	266.50	275.64	0.96	3.61	24,393.000	240.51
13.300	3.02	263.85	272.60	0.96	3.42	24,137.000	240.49
13.350	2.97	261.38	269.85	0.96	3.27	23,896.000	240.47
13.400	2.92	259.07	267.27	0.96	3.14	23,671.000	240.45
13.450	2.87	256.90	264.86	0.96	3.02	23,461.000	240.43
13.500	2.82	254.86	262.58	0.96	2.90	23,263.000	240.41
13.550	2.76	252.93	260.44	0.96	2.79	23,077.000	240.39
13.600	2.71	251.11	258.41	0.96	2.69	22,901.000	240.38
13.650	2.66	249.38	256.48	0.96	2.59	22,734.000	240.36
13.700	2.61	247.73	254.64	0.96	2.50	22,575.000	240.35
13.750	2.55	246.15	252.89	0.96	2.41	22,424.000	240.33
13.800	2.50	244.65	251.21	0.96	2.32	22,279.000	240.32
13.850	2.45	243.20	249.60	0.96	2.24	22,141.000	240.31

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
13.900	2.40	241.80	248.04	0.96	2.16	22,007.000	240.30
13.950	2.34	240.45	246.54	0.96	2.08	21,878.000	240.28
14.000	2.29	239.15	245.09	0.96	2.01	21,754.000	240.27
14.050	2.25	237.89	243.68	0.96	1.94	21,634.000	240.26
14.100	2.21	236.69	242.34	0.96	1.87	21,519.000	240.25
14.150	2.18	235.54	241.07	0.96	1.80	21,410.000	240.24
14.200	2.15	234.47	239.87	0.96	1.74	21,308.000	240.23
14.250	2.13	233.46	238.75	0.96	1.69	21,213.000	240.22
14.300	2.10	232.50	237.69	0.96	1.63	21,122.000	240.21
14.350	2.08	231.60	236.68	0.96	1.58	21,037.000	240.21
14.400	2.05	230.75	235.73	0.96	1.53	20,956.000	240.20
14.450	2.03	229.94	234.83	0.96	1.48	20,879.000	240.19
14.500	2.00	229.16	233.96	0.96	1.44	20,806.000	240.19
14.550	1.98	228.42	233.14	0.96	1.40	20,736.000	240.18
14.600	1.95	227.71	232.35	0.96	1.36	20,669.000	240.17
14.650	1.92	227.03	231.59	0.96	1.32	20,605.000	240.17
14.700	1.90	226.37	230.85	0.96	1.28	20,543.000	240.16
14.750	1.87	225.73	230.14	0.96	1.25	20,482.000	240.15
14.800	1.85	225.11	229.45	0.96	1.21	20,424.000	240.15
14.850	1.82	224.51	228.78	0.96	1.18	20,368.000	240.14
14.900	1.80	223.93	228.13	0.96	1.14	20,313.000	240.14
14.950	1.77	223.35	227.49	0.96	1.11	20,259.000	240.13
15.000	1.75	222.79	226.87	0.96	1.08	20,207.000	240.13
15.050	1.72	222.25	226.26	0.96	1.05	20,155.000	240.12
15.100	1.69	221.71	225.66	0.96	1.02	20,105.000	240.12
15.150	1.67	221.18	225.07	0.96	0.99	20,055.000	240.12
15.200	1.64	220.66	224.49	0.96	0.96	20,006.000	240.11
15.250	1.62	220.14	223.92	0.96	0.93	19,958.000	240.11
15.300	1.59	219.63	223.35	0.96	0.90	19,910.000	240.10
15.350	1.57	219.13	222.79	0.96	0.87	19,863.000	240.10
15.400	1.54	218.63	222.23	0.96	0.84	19,817.000	240.09
15.450	1.51	218.14	221.69	0.96	0.81	19,771.000	240.09
15.500	1.49	217.65	221.14	0.96	0.79	19,725.000	240.08
15.550	1.46	217.16	220.60	0.96	0.76	19,679.000	240.08
15.600	1.44	216.68	220.06	0.96	0.73	19,634.000	240.08
15.650	1.41	216.20	219.53	0.96	0.70	19,590.000	240.07
15.700	1.38	215.72	218.99	0.96	0.68	19,545.000	240.07
15.750	1.36	215.25	218.46	0.96	0.65	19,501.000	240.06
15.800	1.33	214.77	217.94	0.96	0.62	19,457.000	240.06
15.850	1.31	214.30	217.41	0.96	0.59	19,413.000	240.05
15.900	1.28	213.83	216.89	0.96	0.57	19,369.000	240.05
15.950	1.25	213.36	216.36	0.96	0.54	19,325.000	240.05
16.000	1.23	212.89	215.84	0.96	0.51	19,282.000	240.04
16.050	1.21	212.43	215.33	0.96	0.49	19,239.000	240.04
16.100	1.19	211.98	214.83	0.96	0.46	19,197.000	240.03
16.150	1.18	211.55	214.35	0.96	0.44	19,157.000	240.03

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1E (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
16.200	1.16	211.14	213.89	0.96	0.41	19,119.000	240.03
16.250	1.15	210.75	213.45	0.96	0.39	19,082.000	240.02
16.300	1.14	210.38	213.04	0.96	0.37	19,048.000	240.02
16.350	1.13	210.03	212.65	0.96	0.35	19,015.000	240.02
16.400	1.12	209.69	212.27	0.96	0.33	18,984.000	240.01
16.450	1.11	209.36	211.91	0.96	0.31	18,954.000	240.01
16.500	1.10	209.05	211.56	0.96	0.30	18,925.000	240.01
16.550	1.08	208.76	211.23	0.96	0.28	18,898.000	240.01
16.600	1.07	208.47	210.91	0.96	0.26	18,871.000	240.00
16.650	1.06	208.18	210.60	0.96	0.25	18,845.000	240.00
16.700	1.05	207.91	210.30	0.96	0.24	18,819.000	240.00
16.750	1.04	207.62	210.00	0.96	0.23	18,792.000	240.00
16.800	1.03	207.32	209.68	0.96	0.22	18,765.000	239.99
16.850	1.02	207.00	209.36	0.96	0.22	18,736.000	239.99
16.900	1.01	206.69	209.03	0.96	0.21	18,706.000	239.99
16.950	0.99	206.36	208.69	0.96	0.20	18,676.000	239.99
17.000	0.98	206.02	208.33	0.96	0.20	18,645.000	239.98
17.050	0.97	205.67	207.97	0.96	0.19	18,613.000	239.98
17.100	0.96	205.32	207.61	0.96	0.18	18,581.000	239.98
17.150	0.95	204.96	207.23	0.96	0.17	18,548.000	239.97
17.200	0.93	204.59	206.85	0.96	0.17	18,514.000	239.97
17.250	0.92	204.22	206.45	0.96	0.16	18,479.000	239.97
17.300	0.92	203.83	206.06	0.96	0.15	18,444.000	239.96
17.350	0.90	203.45	205.65	0.96	0.14	18,408.000	239.96
17.400	0.89	203.05	205.24	0.96	0.13	18,372.000	239.96
17.450	0.88	202.65	204.82	0.96	0.13	18,334.000	239.95
17.500	0.87	202.24	204.40	0.96	0.12	18,297.000	239.95
17.550	0.86	201.83	203.97	0.96	0.11	18,259.000	239.95
17.600	0.84	201.41	203.53	0.96	0.10	18,221.000	239.94
17.650	0.83	200.98	203.09	0.96	0.09	18,182.000	239.94
17.700	0.82	200.56	202.64	0.96	0.08	18,143.000	239.93
17.750	0.81	200.13	202.19	0.96	0.07	18,103.000	239.93
17.800	0.80	199.69	201.73	0.96	0.06	18,063.000	239.93
17.850	0.79	199.24	201.27	0.96	0.06	18,022.000	239.92
17.900	0.78	198.80	200.81	0.96	0.05	17,981.000	239.92
17.950	0.77	198.35	200.34	0.96	0.04	17,940.000	239.92
18.000	0.75	197.89	199.86	0.96	0.03	17,898.000	239.91
18.050	0.74	197.43	199.39	0.96	0.02	17,856.000	239.91
18.100	0.74	196.97	198.91	0.96	0.01	17,815.000	239.90
18.150	0.73	196.52	198.44	0.96	0.00	17,773.000	239.90
18.200	0.73	196.07	197.99	0.96	0.00	17,731.000	239.90
18.250	0.73	195.60	197.52	0.96	0.00	17,689.000	239.89
18.300	0.72	195.13	197.05	0.96	0.00	17,645.000	239.89
18.350	0.72	194.65	196.57	0.96	0.00	17,601.000	239.88
18.400	0.72	194.17	196.09	0.96	0.00	17,557.000	239.88
18.450	0.71	193.68	195.60	0.96	0.00	17,512.000	239.87

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1E (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
18.500	0.71	193.18	195.10	0.96	0.00	17,466.000	239.87
18.550	0.71	192.67	194.59	0.96	0.00	17,420.000	239.87
18.600	0.70	192.16	194.08	0.96	0.00	17,373.000	239.86
18.650	0.70	191.65	193.57	0.96	0.00	17,325.000	239.86
18.700	0.69	191.12	193.04	0.96	0.00	17,277.000	239.85
18.750	0.69	190.59	192.51	0.96	0.00	17,228.000	239.85
18.800	0.69	190.05	191.97	0.96	0.00	17,179.000	239.84
18.850	0.69	189.50	191.42	0.96	0.00	17,129.000	239.84
18.900	0.68	188.95	190.87	0.96	0.00	17,079.000	239.83
18.950	0.68	188.39	190.31	0.96	0.00	17,027.000	239.83
19.000	0.68	187.82	189.74	0.96	0.00	16,976.000	239.82
19.050	0.67	187.25	189.17	0.96	0.00	16,924.000	239.82
19.100	0.67	186.67	188.59	0.96	0.00	16,871.000	239.81
19.150	0.66	186.08	188.00	0.96	0.00	16,817.000	239.81
19.200	0.66	185.49	187.41	0.96	0.00	16,763.000	239.80
19.250	0.66	184.89	186.81	0.96	0.00	16,709.000	239.80
19.300	0.65	184.28	186.20	0.96	0.00	16,653.000	239.79
19.350	0.65	183.67	185.59	0.96	0.00	16,597.000	239.79
19.400	0.65	183.05	184.97	0.96	0.00	16,541.000	239.78
19.450	0.64	182.42	184.34	0.96	0.00	16,484.000	239.78
19.500	0.64	181.79	183.71	0.96	0.00	16,427.000	239.77
19.550	0.64	181.15	183.07	0.96	0.00	16,368.000	239.76
19.600	0.64	180.50	182.42	0.96	0.00	16,310.000	239.76
19.650	0.63	179.84	181.76	0.96	0.00	16,250.000	239.75
19.700	0.63	179.18	181.10	0.96	0.00	16,191.000	239.75
19.750	0.62	178.51	180.43	0.96	0.00	16,130.000	239.74
19.800	0.62	177.84	179.76	0.96	0.00	16,069.000	239.73
19.850	0.62	177.16	179.08	0.96	0.00	16,007.000	239.73
19.900	0.61	176.47	178.39	0.96	0.00	15,945.000	239.72
19.950	0.61	175.77	177.69	0.96	0.00	15,882.000	239.72
20.000	0.61	175.07	176.99	0.96	0.00	15,819.000	239.71
20.050	0.60	174.36	176.28	0.96	0.00	15,755.000	239.70
20.100	0.60	173.64	175.56	0.96	0.00	15,691.000	239.70
20.150	0.60	172.92	174.84	0.96	0.00	15,626.000	239.69
20.200	0.60	172.20	174.12	0.96	0.00	15,561.000	239.68
20.250	0.59	171.47	173.39	0.96	0.00	15,495.000	239.68
20.300	0.59	170.73	172.65	0.96	0.00	15,429.000	239.67
20.350	0.59	169.99	171.91	0.96	0.00	15,363.000	239.67
20.400	0.58	169.24	171.16	0.96	0.00	15,296.000	239.66
20.450	0.58	168.49	170.41	0.96	0.00	15,228.000	239.65
20.500	0.58	167.73	169.65	0.96	0.00	15,161.000	239.65
20.550	0.58	166.97	168.89	0.96	0.00	15,093.000	239.64
20.600	0.58	166.21	168.13	0.96	0.00	15,024.000	239.63
20.650	0.57	165.43	167.35	0.96	0.00	14,955.000	239.63
20.700	0.57	164.65	166.57	0.96	0.00	14,886.000	239.62
20.750	0.57	163.87	165.79	0.96	0.00	14,816.000	239.61

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1E (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
20.800	0.57	163.08	165.00	0.96	0.00	14,745.000	239.60
20.850	0.56	162.29	164.21	0.96	0.00	14,675.000	239.60
20.900	0.56	161.49	163.41	0.96	0.00	14,604.000	239.59
20.950	0.56	160.68	162.60	0.96	0.00	14,532.000	239.58
21.000	0.56	159.88	161.80	0.96	0.00	14,461.000	239.58
21.050	0.55	159.07	160.99	0.96	0.00	14,389.000	239.57
21.100	0.55	158.25	160.17	0.96	0.00	14,317.000	239.56
21.150	0.55	157.43	159.35	0.96	0.00	14,244.000	239.55
21.200	0.54	156.60	158.52	0.96	0.00	14,170.000	239.55
21.250	0.54	155.76	157.68	0.96	0.00	14,097.000	239.54
21.300	0.54	154.92	156.84	0.96	0.00	14,022.000	239.53
21.350	0.54	154.08	156.00	0.96	0.00	13,948.000	239.53
21.400	0.53	153.23	155.15	0.96	0.00	13,873.000	239.52
21.450	0.53	152.38	154.30	0.96	0.00	13,798.000	239.51
21.500	0.53	151.51	153.43	0.96	0.00	13,722.000	239.50
21.550	0.53	150.65	152.57	0.96	0.00	13,643.000	239.49
21.600	0.52	149.78	151.70	0.96	0.00	13,562.000	239.49
21.650	0.52	148.90	150.82	0.96	0.00	13,482.000	239.48
21.700	0.52	148.02	149.94	0.96	0.00	13,400.000	239.47
21.750	0.52	147.13	149.05	0.96	0.00	13,318.000	239.46
21.800	0.52	146.25	148.17	0.96	0.00	13,236.000	239.45
21.850	0.51	145.35	147.27	0.96	0.00	13,154.000	239.45
21.900	0.51	144.45	146.37	0.96	0.00	13,071.000	239.44
21.950	0.51	143.55	145.47	0.96	0.00	12,988.000	239.43
22.000	0.50	142.63	144.55	0.96	0.00	12,904.000	239.42
22.050	0.50	141.72	143.64	0.96	0.00	12,820.000	239.41
22.100	0.50	140.80	142.72	0.96	0.00	12,736.000	239.40
22.150	0.50	139.87	141.79	0.96	0.00	12,651.000	239.39
22.200	0.49	138.94	140.86	0.96	0.00	12,566.000	239.39
22.250	0.49	138.00	139.92	0.96	0.00	12,480.000	239.38
22.300	0.48	137.06	138.98	0.96	0.00	12,394.000	239.37
22.350	0.48	136.10	138.02	0.96	0.00	12,307.000	239.36
22.400	0.48	135.15	137.07	0.96	0.00	12,220.000	239.35
22.450	0.48	134.20	136.12	0.96	0.00	12,133.000	239.34
22.500	0.48	133.23	135.15	0.96	0.00	12,045.000	239.33
22.550	0.47	132.26	134.18	0.96	0.00	11,957.000	239.32
22.600	0.47	131.29	133.21	0.96	0.00	11,869.000	239.32
22.650	0.47	130.32	132.24	0.96	0.00	11,781.000	239.31
22.700	0.47	129.33	131.25	0.96	0.00	11,692.000	239.30
22.750	0.46	128.34	130.26	0.96	0.00	11,602.000	239.29
22.800	0.46	127.35	129.27	0.96	0.00	11,512.000	239.28
22.850	0.46	126.35	128.27	0.96	0.00	11,422.000	239.27
22.900	0.46	125.35	127.27	0.96	0.00	11,332.000	239.26
22.950	0.45	124.34	126.26	0.96	0.00	11,241.000	239.25
23.000	0.45	123.32	125.24	0.96	0.00	11,150.000	239.24
23.050	0.45	122.30	124.22	0.96	0.00	11,058.000	239.23

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 25 years
Label: IB-1E (OUT) Storm Event: 25 year
Scenario: Post-Development 25 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
23.100	0.44	121.27	123.19	0.96	0.00	10,966.000	239.22
23.150	0.44	120.24	122.16	0.96	0.00	10,873.000	239.21
23.200	0.44	119.20	121.12	0.96	0.00	10,780.000	239.20
23.250	0.44	118.17	120.09	0.96	0.00	10,687.000	239.19
23.300	0.43	117.12	119.04	0.96	0.00	10,594.000	239.18
23.350	0.43	116.07	117.99	0.96	0.00	10,500.000	239.17
23.400	0.43	115.01	116.93	0.96	0.00	10,406.000	239.16
23.450	0.43	113.95	115.87	0.96	0.00	10,312.000	239.15
23.500	0.43	112.89	114.81	0.96	0.00	10,217.000	239.14
23.550	0.42	111.82	113.74	0.96	0.00	10,122.000	239.13
23.600	0.42	110.74	112.66	0.96	0.00	10,026.000	239.12
23.650	0.42	109.66	111.58	0.96	0.00	9,930.000	239.11
23.700	0.42	108.57	110.49	0.96	0.00	9,834.000	239.10
23.750	0.41	107.48	109.40	0.96	0.00	9,738.000	239.09
23.800	0.41	106.38	108.30	0.96	0.00	9,641.000	239.08
23.850	0.41	105.28	107.20	0.96	0.00	9,543.000	239.07
23.900	0.40	104.17	106.09	0.96	0.00	9,446.000	239.06
23.950	0.40	103.05	104.97	0.96	0.00	9,347.000	239.05
24.000	0.40	101.93	103.85	0.96	0.00	9,249.000	239.04

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1E (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) — Return Event: 100 years
Label: IB-1E (OUT) — Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
0.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
0.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
1.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
2.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1E (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
3.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.400	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.450	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.500	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.550	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.600	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.650	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.700	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.750	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.800	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.850	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.900	0.00	0.00	0.00	0.00	0.00	0.000	238.00
3.950	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.000	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.050	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.100	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.150	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.200	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.250	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.300	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.350	0.00	0.00	0.00	0.00	0.00	0.000	238.00
4.400	0.01	0.01	0.01	0.00	0.00	1.000	238.00
4.450	0.01	0.03	0.03	0.00	0.00	3.000	238.00
4.500	0.02	0.06	0.06	0.00	0.00	5.000	238.00
4.550	0.02	0.09	0.10	0.00	0.00	8.000	238.00
4.600	0.03	0.14	0.14	0.00	0.00	12.000	238.00
4.650	0.03	0.19	0.20	0.00	0.00	17.000	238.00
4.700	0.04	0.26	0.27	0.01	0.00	23.000	238.00
4.750	0.05	0.33	0.34	0.01	0.00	29.000	238.00
4.800	0.05	0.41	0.43	0.01	0.00	36.000	238.00
4.850	0.06	0.50	0.52	0.01	0.00	44.000	238.01
4.900	0.06	0.59	0.62	0.01	0.00	53.000	238.01
4.950	0.07	0.70	0.73	0.01	0.00	62.000	238.01
5.000	0.07	0.81	0.84	0.02	0.00	72.000	238.01
5.050	0.08	0.93	0.96	0.02	0.00	82.000	238.01
5.100	0.09	1.05	1.09	0.02	0.00	94.000	238.01
5.150	0.09	1.18	1.23	0.02	0.00	105.000	238.01
5.200	0.10	1.32	1.37	0.03	0.00	118.000	238.01
5.250	0.11	1.46	1.52	0.03	0.00	130.000	238.02
5.300	0.11	1.61	1.68	0.03	0.00	144.000	238.02
5.350	0.12	1.77	1.84	0.04	0.00	158.000	238.02
5.400	0.12	1.93	2.01	0.04	0.00	172.000	238.02
5.450	0.13	2.10	2.18	0.04	0.00	187.000	238.02

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
5.500	0.14	2.27	2.36	0.05	0.00	202.000	238.02
5.550	0.14	2.45	2.55	0.05	0.00	218.000	238.03
5.600	0.15	2.63	2.74	0.05	0.00	235.000	238.03
5.650	0.16	2.82	2.94	0.06	0.00	251.000	238.03
5.700	0.16	3.01	3.14	0.06	0.00	269.000	238.03
5.750	0.17	3.21	3.34	0.07	0.00	286.000	238.03
5.800	0.17	3.41	3.55	0.07	0.00	304.000	238.04
5.850	0.18	3.62	3.77	0.07	0.00	323.000	238.04
5.900	0.19	3.83	3.99	0.08	0.00	342.000	238.04
5.950	0.19	4.05	4.21	0.08	0.00	361.000	238.04
6.000	0.20	4.27	4.44	0.09	0.00	381.000	238.05
6.050	0.21	4.49	4.67	0.09	0.00	401.000	238.05
6.100	0.22	4.72	4.91	0.10	0.00	421.000	238.05
6.150	0.22	4.96	5.16	0.10	0.00	443.000	238.05
6.200	0.23	5.20	5.42	0.11	0.00	465.000	238.06
6.250	0.24	5.46	5.68	0.11	0.00	487.000	238.06
6.300	0.25	5.72	5.95	0.12	0.00	511.000	238.06
6.350	0.26	5.99	6.24	0.12	0.00	535.000	238.06
6.400	0.27	6.27	6.53	0.13	0.00	560.000	238.07
6.450	0.28	6.56	6.83	0.13	0.00	586.000	238.07
6.500	0.30	6.85	7.14	0.14	0.00	613.000	238.07
6.550	0.31	7.16	7.45	0.15	0.00	640.000	238.08
6.600	0.32	7.47	7.78	0.15	0.00	668.000	238.08
6.650	0.33	7.80	8.12	0.16	0.00	698.000	238.08
6.700	0.34	8.13	8.47	0.17	0.00	728.000	238.09
6.750	0.35	8.47	8.82	0.17	0.00	758.000	238.09
6.800	0.36	8.83	9.19	0.18	0.00	790.000	238.09
6.850	0.37	9.18	9.56	0.19	0.00	822.000	238.10
6.900	0.39	9.55	9.95	0.20	0.00	856.000	238.10
6.950	0.40	9.93	10.34	0.20	0.00	890.000	238.11
7.000	0.41	10.32	10.75	0.21	0.00	925.000	238.11
7.050	0.43	10.72	11.16	0.22	0.00	961.000	238.11
7.100	0.44	11.12	11.58	0.23	0.00	997.000	238.12
7.150	0.45	11.54	12.02	0.24	0.00	1,035.000	238.12
7.200	0.46	11.96	12.46	0.25	0.00	1,073.000	238.13
7.250	0.48	12.40	12.91	0.25	0.00	1,112.000	238.13
7.300	0.49	12.84	13.37	0.26	0.00	1,153.000	238.14
7.350	0.51	13.29	13.84	0.27	0.00	1,194.000	238.14
7.400	0.52	13.76	14.32	0.28	0.00	1,235.000	238.15
7.450	0.53	14.22	14.81	0.29	0.00	1,278.000	238.15
7.500	0.55	14.71	15.31	0.30	0.00	1,322.000	238.16
7.550	0.56	15.20	15.82	0.31	0.00	1,366.000	238.16
7.600	0.58	15.69	16.34	0.32	0.00	1,411.000	238.17
7.650	0.59	16.20	16.86	0.33	0.00	1,457.000	238.17
7.700	0.61	16.72	17.40	0.34	0.00	1,504.000	238.18
7.750	0.62	17.24	17.95	0.35	0.00	1,552.000	238.18

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
7.800	0.64	17.77	18.51	0.37	0.00	1,601.000	238.19
7.850	0.66	18.32	19.07	0.38	0.00	1,650.000	238.20
7.900	0.67	18.87	19.65	0.39	0.00	1,701.000	238.20
7.950	0.69	19.43	20.23	0.40	0.00	1,752.000	238.21
8.000	0.70	20.00	20.82	0.41	0.00	1,804.000	238.21
8.050	0.72	20.58	21.43	0.42	0.00	1,857.000	238.22
8.100	0.75	21.18	22.05	0.44	0.00	1,912.000	238.23
8.150	0.77	21.80	22.69	0.45	0.00	1,968.000	238.23
8.200	0.80	22.44	23.36	0.46	0.00	2,027.000	238.24
8.250	0.82	23.11	24.06	0.48	0.00	2,089.000	238.25
8.300	0.85	23.80	24.78	0.49	0.00	2,153.000	238.25
8.350	0.88	24.53	25.53	0.50	0.00	2,219.000	238.26
8.400	0.91	25.27	26.31	0.52	0.00	2,288.000	238.27
8.450	0.94	26.05	27.12	0.54	0.00	2,359.000	238.28
8.500	0.97	26.85	27.95	0.55	0.00	2,433.000	238.29
8.550	1.00	27.67	28.81	0.57	0.00	2,509.000	238.30
8.600	1.03	28.52	29.69	0.59	0.00	2,588.000	238.31
8.650	1.06	29.40	30.61	0.60	0.00	2,669.000	238.31
8.700	1.09	30.30	31.55	0.62	0.00	2,752.000	238.32
8.750	1.12	31.23	32.51	0.64	0.00	2,838.000	238.33
8.800	1.15	32.18	33.50	0.66	0.00	2,927.000	238.34
8.850	1.19	33.16	34.52	0.68	0.00	3,018.000	238.36
8.900	1.22	34.16	35.57	0.70	0.00	3,111.000	238.37
8.950	1.25	35.19	36.64	0.72	0.00	3,207.000	238.38
9.000	1.29	36.24	37.73	0.75	0.00	3,305.000	238.39
9.050	1.32	37.32	38.85	0.77	0.00	3,406.000	238.40
9.100	1.36	38.42	40.00	0.79	0.00	3,509.000	238.41
9.150	1.39	39.55	41.18	0.81	0.00	3,615.000	238.42
9.200	1.43	40.70	42.37	0.84	0.00	3,723.000	238.44
9.250	1.47	41.87	43.60	0.86	0.00	3,834.000	238.45
9.300	1.50	43.07	44.85	0.89	0.00	3,947.000	238.46
9.350	1.54	44.30	46.12	0.91	0.00	4,062.000	238.47
9.400	1.58	45.54	47.42	0.94	0.00	4,180.000	238.49
9.450	1.62	46.82	48.74	0.96	0.00	4,299.000	238.50
9.500	1.66	48.17	50.09	0.96	0.00	4,417.000	238.51
9.550	1.69	49.60	51.52	0.96	0.00	4,542.000	238.53
9.600	1.73	51.10	53.02	0.96	0.00	4,674.000	238.54
9.650	1.77	52.68	54.60	0.96	0.00	4,813.000	238.56
9.700	1.81	54.35	56.27	0.96	0.00	4,960.000	238.58
9.750	1.85	56.09	58.01	0.96	0.00	5,113.000	238.59
9.800	1.89	57.91	59.83	0.96	0.00	5,274.000	238.61
9.850	1.93	59.81	61.73	0.96	0.00	5,443.000	238.63
9.900	1.97	61.80	63.72	0.96	0.00	5,619.000	238.65
9.950	2.01	63.87	65.79	0.96	0.00	5,803.000	238.67
10.000	2.06	66.02	67.94	0.96	0.00	5,995.000	238.69
10.050	2.11	68.26	70.18	0.96	0.00	6,196.000	238.71

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1E (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
10.100	2.16	70.61	72.53	0.96	0.00	6,407.000	238.74
10.150	2.23	73.08	75.00	0.96	0.00	6,629.000	238.76
10.200	2.30	75.69	77.61	0.96	0.00	6,865.000	238.79
10.250	2.37	78.44	80.36	0.96	0.00	7,114.000	238.81
10.300	2.44	81.34	83.26	0.96	0.00	7,377.000	238.84
10.350	2.52	84.38	86.30	0.96	0.00	7,654.000	238.87
10.400	2.59	87.57	89.49	0.96	0.00	7,946.000	238.90
10.450	2.67	90.91	92.83	0.96	0.00	8,253.000	238.94
10.500	2.74	94.40	96.32	0.96	0.00	8,575.000	238.97
10.550	2.82	98.05	99.97	0.96	0.00	8,909.000	239.01
10.600	2.90	101.85	103.77	0.96	0.00	9,242.000	239.04
10.650	2.98	105.80	107.72	0.96	0.00	9,590.000	239.08
10.700	3.06	109.92	111.84	0.96	0.00	9,953.000	239.12
10.750	3.14	114.19	116.11	0.96	0.00	10,333.000	239.16
10.800	3.22	118.62	120.54	0.96	0.00	10,728.000	239.20
10.850	3.30	123.22	125.14	0.96	0.00	11,140.000	239.24
10.900	3.38	127.98	129.90	0.96	0.00	11,569.000	239.28
10.950	3.46	132.90	134.82	0.96	0.00	12,016.000	239.33
11.000	3.55	138.00	139.92	0.96	0.00	12,479.000	239.38
11.050	3.70	143.32	145.24	0.96	0.00	12,967.000	239.43
11.100	3.86	148.96	150.88	0.96	0.00	13,487.000	239.48
11.150	4.10	155.00	156.92	0.96	0.00	14,029.000	239.53
11.200	4.36	161.54	163.46	0.96	0.00	14,608.000	239.59
11.250	4.63	168.60	170.52	0.96	0.00	15,238.000	239.65
11.300	4.90	176.20	178.12	0.96	0.00	15,921.000	239.72
11.350	5.17	184.35	186.27	0.96	0.00	16,660.000	239.79
11.400	5.45	193.06	194.98	0.96	0.00	17,455.000	239.87
11.450	5.74	202.11	204.25	0.96	0.11	18,285.000	239.95
11.500	6.03	211.12	213.87	0.96	0.41	19,117.000	240.03
11.550	7.12	220.46	224.27	0.96	0.95	19,987.000	240.11
11.600	8.44	231.01	236.02	0.96	1.55	20,981.000	240.20
11.650	10.66	243.66	250.11	0.96	2.27	22,185.000	240.31
11.700	13.17	259.26	267.49	0.96	3.15	23,690.000	240.45
11.750	15.79	277.20	288.22	0.96	4.55	25,419.000	240.60
11.800	18.52	296.99	311.50	0.96	6.30	27,344.000	240.77
11.850	21.31	318.50	336.82	0.96	8.20	29,477.000	240.96
11.900	24.20	341.24	364.02	0.96	10.43	31,705.000	241.14
11.950	34.50	371.13	399.94	0.96	13.45	34,671.000	241.39
12.000	47.13	415.64	452.76	0.96	17.60	39,038.000	241.74
12.050	50.94	467.65	513.72	0.96	22.07	44,130.000	242.13
12.100	52.42	517.15	571.01	0.96	25.97	48,965.000	242.49
12.150	43.34	554.32	612.91	0.96	28.33	52,485.000	242.75
12.200	31.22	568.51	628.89	0.96	29.23	53,848.000	242.84
12.250	26.20	565.88	625.93	0.96	29.06	53,594.000	242.83
12.300	22.90	556.16	614.98	0.96	28.45	52,660.000	242.76
12.350	20.01	542.03	599.06	0.96	27.56	51,313.000	242.66

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1E (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
12.400	17.19	524.41	579.22	0.96	26.45	49,651.000	242.54
12.450	14.38	504.15	555.97	0.96	24.95	47,679.000	242.40
12.500	11.52	481.76	530.05	0.96	23.19	45,492.000	242.23
12.550	9.65	458.33	502.93	0.96	21.34	43,239.000	242.06
12.600	7.99	435.31	475.97	0.96	19.37	40,980.000	241.89
12.650	7.37	413.87	450.67	0.96	17.44	38,865.000	241.73
12.700	7.00	394.86	428.24	0.96	15.73	37,018.000	241.58
12.750	6.69	378.28	408.54	0.96	14.17	35,392.000	241.45
12.800	6.39	363.98	391.35	0.96	12.73	33,955.000	241.33
12.850	6.09	351.59	376.46	0.96	11.47	32,724.000	241.23
12.900	5.79	340.79	363.48	0.96	10.38	31,661.000	241.14
12.950	5.50	331.31	352.08	0.96	9.43	30,735.000	241.06
13.000	5.19	322.91	342.00	0.96	8.59	29,919.000	240.99
13.050	4.98	315.33	333.08	0.96	7.92	29,160.000	240.93
13.100	4.79	308.54	325.09	0.96	7.32	28,484.000	240.87
13.150	4.68	302.51	318.00	0.96	6.79	27,888.000	240.82
13.200	4.60	297.23	311.79	0.96	6.32	27,368.000	240.77
13.250	4.52	292.60	306.34	0.96	5.91	26,914.000	240.73
13.300	4.44	288.53	301.56	0.96	5.55	26,518.000	240.70
13.350	4.36	284.94	297.34	0.96	5.24	26,169.000	240.67
13.400	4.29	281.76	293.60	0.96	4.96	25,860.000	240.64
13.450	4.21	278.93	290.26	0.96	4.71	25,586.000	240.62
13.500	4.13	276.39	287.27	0.96	4.48	25,341.000	240.60
13.550	4.05	274.10	284.57	0.96	4.28	25,120.000	240.58
13.600	3.98	272.02	282.13	0.96	4.10	24,921.000	240.56
13.650	3.90	270.12	279.89	0.96	3.93	24,738.000	240.54
13.700	3.82	268.37	277.83	0.96	3.77	24,571.000	240.53
13.750	3.74	266.75	275.93	0.96	3.63	24,417.000	240.51
13.800	3.66	265.24	274.16	0.96	3.50	24,273.000	240.50
13.850	3.59	263.75	272.49	0.96	3.41	24,128.000	240.49
13.900	3.51	262.28	270.85	0.96	3.33	23,984.000	240.47
13.950	3.43	260.81	269.21	0.96	3.24	23,841.000	240.46
14.000	3.35	259.35	267.59	0.96	3.16	23,699.000	240.45
14.050	3.29	257.92	265.99	0.96	3.08	23,559.000	240.44
14.100	3.23	256.52	264.43	0.96	3.00	23,424.000	240.42
14.150	3.19	255.17	262.93	0.96	2.92	23,293.000	240.41
14.200	3.15	253.89	261.50	0.96	2.85	23,169.000	240.40
14.250	3.11	252.67	260.15	0.96	2.78	23,051.000	240.39
14.300	3.07	251.51	258.85	0.96	2.71	22,939.000	240.38
14.350	3.04	250.40	257.62	0.96	2.65	22,832.000	240.37
14.400	3.00	249.33	256.43	0.96	2.59	22,730.000	240.36
14.450	2.96	248.31	255.29	0.96	2.53	22,631.000	240.35
14.500	2.92	247.33	254.20	0.96	2.47	22,537.000	240.34
14.550	2.89	246.37	253.14	0.96	2.42	22,445.000	240.34
14.600	2.85	245.45	252.11	0.96	2.37	22,357.000	240.33
14.650	2.81	244.56	251.11	0.96	2.32	22,271.000	240.32

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1E (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
14.700	2.77	243.69	250.14	0.96	2.27	22,188.000	240.31
14.750	2.74	242.84	249.20	0.96	2.22	22,106.000	240.30
14.800	2.70	242.01	248.27	0.96	2.17	22,027.000	240.30
14.850	2.66	241.20	247.37	0.96	2.13	21,949.000	240.29
14.900	2.62	240.40	246.48	0.96	2.08	21,873.000	240.28
14.950	2.58	239.61	245.60	0.96	2.04	21,798.000	240.28
15.000	2.55	238.84	244.74	0.96	1.99	21,725.000	240.27
15.050	2.51	238.08	243.90	0.96	1.95	21,652.000	240.26
15.100	2.47	237.33	243.06	0.96	1.91	21,581.000	240.26
15.150	2.43	236.59	242.23	0.96	1.86	21,510.000	240.25
15.200	2.40	235.85	241.42	0.96	1.82	21,440.000	240.24
15.250	2.36	235.13	240.61	0.96	1.78	21,371.000	240.24
15.300	2.32	234.41	239.81	0.96	1.74	21,303.000	240.23
15.350	2.28	233.69	239.01	0.96	1.70	21,235.000	240.22
15.400	2.24	232.98	238.22	0.96	1.66	21,167.000	240.22
15.450	2.21	232.28	237.43	0.96	1.62	21,101.000	240.21
15.500	2.17	231.57	236.65	0.96	1.58	21,034.000	240.21
15.550	2.13	230.87	235.87	0.96	1.54	20,968.000	240.20
15.600	2.09	230.18	235.10	0.96	1.50	20,902.000	240.19
15.650	2.05	229.49	234.33	0.96	1.46	20,837.000	240.19
15.700	2.01	228.80	233.56	0.96	1.42	20,772.000	240.18
15.750	1.98	228.11	232.79	0.96	1.38	20,707.000	240.18
15.800	1.94	227.42	232.03	0.96	1.34	20,642.000	240.17
15.850	1.90	226.74	231.27	0.96	1.30	20,578.000	240.16
15.900	1.86	226.06	230.50	0.96	1.26	20,513.000	240.16
15.950	1.82	225.37	229.74	0.96	1.22	20,449.000	240.15
16.000	1.79	224.69	228.99	0.96	1.19	20,385.000	240.15
16.050	1.76	224.02	228.24	0.96	1.15	20,322.000	240.14
16.100	1.73	223.37	227.52	0.96	1.11	20,261.000	240.13
16.150	1.71	222.75	226.82	0.96	1.08	20,202.000	240.13
16.200	1.69	222.14	226.15	0.96	1.04	20,146.000	240.12
16.250	1.68	221.57	225.51	0.96	1.01	20,092.000	240.12
16.300	1.66	221.03	224.91	0.96	0.98	20,041.000	240.11
16.350	1.64	220.52	224.34	0.96	0.95	19,993.000	240.11
16.400	1.62	220.03	223.79	0.96	0.92	19,947.000	240.11
16.450	1.61	219.55	223.26	0.96	0.89	19,903.000	240.10
16.500	1.60	219.10	222.76	0.96	0.87	19,861.000	240.10
16.550	1.58	218.67	222.27	0.96	0.84	19,820.000	240.09
16.600	1.56	218.24	221.80	0.96	0.82	19,780.000	240.09
16.650	1.54	217.83	221.35	0.96	0.80	19,742.000	240.09
16.700	1.53	217.44	220.91	0.96	0.77	19,705.000	240.08
16.750	1.51	217.06	220.48	0.96	0.75	19,669.000	240.08
16.800	1.49	216.68	220.06	0.96	0.73	19,634.000	240.08
16.850	1.48	216.31	219.65	0.96	0.71	19,600.000	240.07
16.900	1.46	215.95	219.25	0.96	0.69	19,566.000	240.07
16.950	1.44	215.60	218.86	0.96	0.67	19,534.000	240.07

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1E (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
17.000	1.43	215.25	218.47	0.96	0.65	19,501.000	240.06
17.050	1.41	214.91	218.09	0.96	0.63	19,469.000	240.06
17.100	1.40	214.58	217.72	0.96	0.61	19,438.000	240.06
17.150	1.38	214.25	217.35	0.96	0.59	19,408.000	240.05
17.200	1.36	213.92	216.99	0.96	0.57	19,377.000	240.05
17.250	1.34	213.59	216.62	0.96	0.55	19,347.000	240.05
17.300	1.33	213.27	216.27	0.96	0.54	19,317.000	240.05
17.350	1.31	212.96	215.92	0.96	0.52	19,288.000	240.04
17.400	1.29	212.64	215.56	0.96	0.50	19,258.000	240.04
17.450	1.28	212.33	215.21	0.96	0.48	19,229.000	240.04
17.500	1.26	212.02	214.87	0.96	0.46	19,200.000	240.03
17.550	1.25	211.71	214.53	0.96	0.45	19,172.000	240.03
17.600	1.23	211.40	214.18	0.96	0.43	19,143.000	240.03
17.650	1.21	211.10	213.84	0.96	0.41	19,115.000	240.03
17.700	1.20	210.79	213.50	0.96	0.40	19,087.000	240.02
17.750	1.18	210.49	213.17	0.96	0.38	19,059.000	240.02
17.800	1.16	210.19	212.83	0.96	0.36	19,031.000	240.02
17.850	1.14	209.89	212.49	0.96	0.34	19,002.000	240.02
17.900	1.13	209.59	212.16	0.96	0.33	18,975.000	240.01
17.950	1.11	209.29	211.83	0.96	0.31	18,947.000	240.01
18.000	1.09	208.99	211.49	0.96	0.29	18,919.000	240.01
18.050	1.08	208.69	211.16	0.96	0.28	18,892.000	240.01
18.100	1.07	208.40	210.84	0.96	0.26	18,865.000	240.00
18.150	1.06	208.13	210.54	0.96	0.24	18,840.000	240.00
18.200	1.06	207.86	210.25	0.96	0.23	18,815.000	240.00
18.250	1.05	207.60	209.98	0.96	0.23	18,791.000	240.00
18.300	1.05	207.34	209.71	0.96	0.22	18,767.000	239.99
18.350	1.04	207.07	209.43	0.96	0.22	18,742.000	239.99
18.400	1.04	206.81	209.16	0.96	0.21	18,718.000	239.99
18.450	1.03	206.56	208.89	0.96	0.21	18,694.000	239.99
18.500	1.03	206.29	208.62	0.96	0.20	18,670.000	239.98
18.550	1.02	206.03	208.35	0.96	0.20	18,646.000	239.98
18.600	1.02	205.78	208.08	0.96	0.19	18,623.000	239.98
18.650	1.01	205.52	207.81	0.96	0.19	18,599.000	239.98
18.700	1.01	205.26	207.55	0.96	0.18	18,575.000	239.98
18.750	1.00	205.01	207.28	0.96	0.17	18,552.000	239.97
18.800	1.00	204.75	207.01	0.96	0.17	18,528.000	239.97
18.850	1.00	204.50	206.75	0.96	0.16	18,505.000	239.97
18.900	0.99	204.25	206.48	0.96	0.16	18,482.000	239.97
18.950	0.98	203.99	206.22	0.96	0.15	18,458.000	239.96
19.000	0.98	203.74	205.96	0.96	0.15	18,435.000	239.96
19.050	0.98	203.49	205.70	0.96	0.14	18,412.000	239.96
19.100	0.97	203.24	205.43	0.96	0.14	18,389.000	239.96
19.150	0.96	202.98	205.17	0.96	0.13	18,365.000	239.96
19.200	0.96	202.73	204.91	0.96	0.13	18,342.000	239.95
19.250	0.96	202.49	204.65	0.96	0.12	18,320.000	239.95

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1E (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
19.300	0.95	202.23	204.39	0.96	0.12	18,297.000	239.95
19.350	0.94	201.98	204.13	0.96	0.11	18,274.000	239.95
19.400	0.94	201.74	203.87	0.96	0.11	18,251.000	239.94
19.450	0.94	201.49	203.61	0.96	0.10	18,228.000	239.94
19.500	0.93	201.24	203.35	0.96	0.10	18,205.000	239.94
19.550	0.92	200.99	203.09	0.96	0.09	18,182.000	239.94
19.600	0.92	200.74	202.84	0.96	0.09	18,160.000	239.94
19.650	0.92	200.50	202.58	0.96	0.08	18,137.000	239.93
19.700	0.91	200.25	202.32	0.96	0.08	18,114.000	239.93
19.750	0.90	200.00	202.06	0.96	0.07	18,092.000	239.93
19.800	0.90	199.76	201.81	0.96	0.07	18,069.000	239.93
19.850	0.90	199.51	201.55	0.96	0.06	18,047.000	239.93
19.900	0.89	199.26	201.30	0.96	0.06	18,024.000	239.92
19.950	0.88	199.02	201.04	0.96	0.05	18,002.000	239.92
20.000	0.88	198.77	200.78	0.96	0.05	17,979.000	239.92
20.050	0.88	198.53	200.53	0.96	0.04	17,957.000	239.92
20.100	0.87	198.28	200.27	0.96	0.04	17,934.000	239.91
20.150	0.87	198.04	200.02	0.96	0.03	17,912.000	239.91
20.200	0.87	197.80	199.77	0.96	0.03	17,890.000	239.91
20.250	0.86	197.57	199.53	0.96	0.02	17,869.000	239.91
20.300	0.86	197.34	199.29	0.96	0.02	17,848.000	239.91
20.350	0.85	197.10	199.05	0.96	0.01	17,826.000	239.90
20.400	0.85	196.87	198.80	0.96	0.01	17,805.000	239.90
20.450	0.84	196.64	198.56	0.96	0.00	17,784.000	239.90
20.500	0.84	196.41	198.33	0.96	0.00	17,763.000	239.90
20.550	0.84	196.17	198.09	0.96	0.00	17,741.000	239.90
20.600	0.83	195.92	197.84	0.96	0.00	17,718.000	239.89
20.650	0.83	195.66	197.58	0.96	0.00	17,694.000	239.89
20.700	0.82	195.40	197.32	0.96	0.00	17,670.000	239.89
20.750	0.82	195.12	197.04	0.96	0.00	17,644.000	239.89
20.800	0.82	194.84	196.76	0.96	0.00	17,618.000	239.88
20.850	0.82	194.56	196.48	0.96	0.00	17,592.000	239.88
20.900	0.81	194.26	196.18	0.96	0.00	17,565.000	239.88
20.950	0.81	193.96	195.88	0.96	0.00	17,537.000	239.88
21.000	0.81	193.65	195.57	0.96	0.00	17,509.000	239.87
21.050	0.80	193.34	195.26	0.96	0.00	17,481.000	239.87
21.100	0.80	193.02	194.94	0.96	0.00	17,451.000	239.87
21.150	0.79	192.68	194.60	0.96	0.00	17,421.000	239.87
21.200	0.79	192.34	194.26	0.96	0.00	17,389.000	239.86
21.250	0.78	192.00	193.92	0.96	0.00	17,358.000	239.86
21.300	0.78	191.64	193.56	0.96	0.00	17,325.000	239.86
21.350	0.78	191.28	193.20	0.96	0.00	17,292.000	239.85
21.400	0.77	190.91	192.83	0.96	0.00	17,258.000	239.85
21.450	0.77	190.54	192.46	0.96	0.00	17,224.000	239.85
21.500	0.76	190.15	192.07	0.96	0.00	17,188.000	239.84
21.550	0.76	189.75	191.67	0.96	0.00	17,152.000	239.84

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) Return Event: 100 years
Label: IB-1E (OUT) Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
21.600	0.76	189.35	191.27	0.96	0.00	17,116.000	239.84
21.650	0.76	188.95	190.87	0.96	0.00	17,079.000	239.83
21.700	0.75	188.53	190.45	0.96	0.00	17,041.000	239.83
21.750	0.75	188.11	190.03	0.96	0.00	17,002.000	239.83
21.800	0.75	187.68	189.60	0.96	0.00	16,963.000	239.82
21.850	0.74	187.25	189.17	0.96	0.00	16,924.000	239.82
21.900	0.74	186.81	188.73	0.96	0.00	16,883.000	239.81
21.950	0.73	186.36	188.28	0.96	0.00	16,842.000	239.81
22.000	0.73	185.90	187.82	0.96	0.00	16,800.000	239.81
22.050	0.72	185.43	187.35	0.96	0.00	16,758.000	239.80
22.100	0.72	184.96	186.88	0.96	0.00	16,715.000	239.80
22.150	0.72	184.48	186.40	0.96	0.00	16,671.000	239.79
22.200	0.71	183.99	185.91	0.96	0.00	16,626.000	239.79
22.250	0.71	183.49	185.41	0.96	0.00	16,581.000	239.78
22.300	0.70	182.98	184.90	0.96	0.00	16,535.000	239.78
22.350	0.70	182.47	184.39	0.96	0.00	16,488.000	239.78
22.400	0.70	181.95	183.87	0.96	0.00	16,441.000	239.77
22.450	0.70	181.42	183.34	0.96	0.00	16,393.000	239.77
22.500	0.69	180.89	182.81	0.96	0.00	16,345.000	239.76
22.550	0.69	180.34	182.26	0.96	0.00	16,296.000	239.76
22.600	0.69	179.80	181.72	0.96	0.00	16,246.000	239.75
22.650	0.68	179.25	181.17	0.96	0.00	16,196.000	239.75
22.700	0.68	178.68	180.60	0.96	0.00	16,145.000	239.74
22.750	0.67	178.11	180.03	0.96	0.00	16,093.000	239.74
22.800	0.67	177.53	179.45	0.96	0.00	16,041.000	239.73
22.850	0.66	176.94	178.86	0.96	0.00	15,988.000	239.73
22.900	0.66	176.35	178.27	0.96	0.00	15,934.000	239.72
22.950	0.66	175.75	177.67	0.96	0.00	15,880.000	239.72
23.000	0.65	175.14	177.06	0.96	0.00	15,825.000	239.71
23.050	0.65	174.52	176.44	0.96	0.00	15,770.000	239.71
23.100	0.64	173.89	175.81	0.96	0.00	15,713.000	239.70
23.150	0.64	173.25	175.17	0.96	0.00	15,656.000	239.69
23.200	0.64	172.61	174.53	0.96	0.00	15,598.000	239.69
23.250	0.63	171.97	173.89	0.96	0.00	15,540.000	239.68
23.300	0.63	171.31	173.23	0.96	0.00	15,481.000	239.68
23.350	0.63	170.65	172.57	0.96	0.00	15,422.000	239.67
23.400	0.63	169.98	171.90	0.96	0.00	15,362.000	239.67
23.450	0.62	169.31	171.23	0.96	0.00	15,302.000	239.66
23.500	0.62	168.63	170.55	0.96	0.00	15,241.000	239.65
23.550	0.61	167.93	169.85	0.96	0.00	15,178.000	239.65
23.600	0.61	167.23	169.15	0.96	0.00	15,116.000	239.64
23.650	0.60	166.52	168.44	0.96	0.00	15,052.000	239.63
23.700	0.60	165.81	167.73	0.96	0.00	14,989.000	239.63
23.750	0.60	165.09	167.01	0.96	0.00	14,924.000	239.62
23.800	0.59	164.36	166.28	0.96	0.00	14,859.000	239.62
23.850	0.59	163.62	165.54	0.96	0.00	14,794.000	239.61

Proposed Hydrologic Calculations Report

Subsection: Pond Routing Calculations (Total Out) | Return Event: 100 years
Label: IB-1E (OUT) | Storm Event: 100 year
Scenario: Post-Development 100 year

Pond Routing Calculations (Total Out)

Time (hours)	Flow (Total In) (ft³/s)	2S/t - O (ft³/s)	2S/t + O (ft³/s)	Infiltration (ft³/s)	Flow (Outlet) (ft³/s)	Volume (ft³)	Elevation (ft)
23.900	0.58	162.87	164.79	0.96	0.00	14,727.000	239.60
23.950	0.58	162.11	164.03	0.96	0.00	14,659.000	239.60
24.000	0.58	161.35	163.27	0.96	0.00	14,592.000	239.59

Subsection: Pond Inflow Summary | Return Event: 1 years
Label: IB-1E (IN) | Storm Event: 1 year
Scenario: Post-Development 1 year

Summary for Hydrograph Addition at 'IB-1E'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-1E

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA-1E	37,089.915	12.100	10.67
Flow (In)	IB-1E	37,089.915	12.100	10.67

Subsection: Pond Inflow Summary | Return Event: 2 years
Label: IB-1E (IN) | Storm Event: 2 year
Scenario: Post-Development 2 year

Summary for Hydrograph Addition at 'IB-1E'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-1E

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA-1E	50,628.160	12.100	14.54
Flow (In)	IB-1E	50,628.160	12.100	14.54

Subsection: Pond Inflow Summary | Return Event: 10 years
Label: IB-1E (IN) | Storm Event: 10 year
Scenario: Post-Development 10 year

Summary for Hydrograph Addition at 'IB-1E'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-1E

Node Inflows

Subsection: Pond Inflow Summary — Return Event: 10 years
Label: IB-1E (IN) — Storm Event: 10 year
Scenario: Post-Development 10 year

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA-1E	91,110.240	12.100	25.74
Flow (In)	IB-1E	91,110.240	12.100	25.74

Subsection: Pond Inflow Summary — Return Event: 25 years
Label: IB-1E (IN) — Storm Event: 25 year
Scenario: Post-Development 25 year

Summary for Hydrograph Addition at 'IB-1E'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-1E

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA-1E	124,339.052	12.100	34.61
Flow (In)	IB-1E	124,339.052	12.100	34.61

Subsection: Pond Inflow Summary — Return Event: 100 years
Label: IB-1E (IN) — Storm Event: 100 year
Scenario: Post-Development 100 year

Summary for Hydrograph Addition at 'IB-1E'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	PDA-1E

Node Inflows

Inflow Type	Element	Volume (ft³)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	PDA-1E	193,190.996	12.100	52.42
Flow (In)	IB-1E	193,190.996	12.100	52.42

Subsection: Interconnected Pond Routing Summary — Return Event: 1 years
Label: OCS-1B — Storm Event: 1 year
Scenario: Post-Development 1 year

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	201.20	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.050	hours

Proposed Hydrologic Calculations Report

Subsection: Interconnected Pond Routing Summary	Return Event: 1 years
Label: OCS-1B	Storm Event: 1 year
Scenario: Post-Development 1 year	

Initial Conditions	Calculation Tolerances

	Maximum Storage	
Time to Peak (hours)	Elevation (ft)	Volume (ft^3)
12.800	206.44	66.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft^3/s)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Pond Inflow....	12.100	7.89	0.000	0.00
Pond Outflow...	12.100	7.76	0.100	0.00

	Total Volume In		Total Volume Out	
	Volume (ft^3)	Direction	Volume (ft^3)	Direction
Pond Inflow....	28,620.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	29,066.000	Forward

Mass Balance (ft^3)	
Volume (Initial ICPM)	0.000 ft^3
Volume (Total In ICPM)	28,620.000 ft^3
Volume (Total Out ICPM)	29,066.000 ft^3
Volume (Ending)	28.000 ft^3
Elevation (Ending)	203.39 ft
Difference	-474.000 ft^3
Percent of Inflow Volume (Interconnected Pond Mass Balance)	1.6 %

Subsection: Interconnected Pond Routing Summary	Return Event: 2 years
Label: OCS-1B	Storm Event: 2 year
Scenario: Post-Development 2 year	

Infiltration	
Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	201.20	ft	Flow Tolerance (Minimum)	0.000	ft^3/s
Volume (Starting)	0.000	ft^3	Maximum Iterations	35	
Outflow (Starting)	0.00	ft^3/s	ICPM Time Step	0.050	hours

Maximum Storage

Proposed Hydrologic Calculations Report

Subsection: Interconnected Pond Routing Summary — Return Event: 2 years
Label: OCS-1B — Storm Event: 2 year
Scenario: Post-Development 2 year

Time to Peak (hours)	Elevation (ft)	Volume (ft³)
12.400	206.89	71.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.100	9.91	0.000	0.00
Pond Outflow...	12.100	9.75	0.100	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	36,442.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	36,840.000	Forward

Mass Balance (ft³)

Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	36,442.000 ft³
Volume (Total Out ICPM)	36,840.000 ft³
Volume (Ending)	28.000 ft³
Elevation (Ending)	203.42 ft
Difference	-426.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	1.2 %

Subsection: Interconnected Pond Routing Summary — Return Event: 10 years
Label: OCS-1B — Storm Event: 10 year
Scenario: Post-Development 10 year

Infiltration

Infiltration Method (Computed)	No Infiltration

Initial Conditions

Elevation (Starting Water Surface Computed)	201.20	ft
Volume (Starting)	0.000	ft³
Outflow (Starting)	0.00	ft³/s

Calculation Tolerances

Flow Tolerance (Minimum)	0.000	ft³/s
Maximum Iterations	35	
ICPM Time Step	0.050	hours

Maximum Storage		
Time to Peak (hours)	Elevation (ft)	Volume (ft³)
12.200	207.71	82.000

Forward Flow Peaks — Reverse Flow Peaks

Proposed Hydrologic Calculations Report

Subsection: Interconnected Pond Routing Summary — Return Event: 10 years
Label: OCS-1B — Storm Event: 10 year
Scenario: Post-Development 10 year

	Time to Peak (hours)	Flow (Peak) (ft^3/s)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Pond Inflow....	12.100	15.45	0.000	0.00
Pond Outflow...	12.100	15.25	0.100	0.00

	Total Volume In		Total Volume Out	
	Volume (ft^3)	Direction	Volume (ft^3)	Direction
Pond Inflow....	58,587.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	59,517.000	Forward

Mass Balance (ft^3)

Volume (Initial ICPM)	0.000 ft^3
Volume (Total In ICPM)	58,587.000 ft^3
Volume (Total Out ICPM)	59,517.000 ft^3
Volume (Ending)	29.000 ft^3
Elevation (Ending)	203.50 ft
Difference	-958.000 ft^3
Percent of Inflow Volume (Interconnected Pond Mass Balance)	1.6 %

Subsection: Interconnected Pond Routing Summary — Return Event: 25 years
Label: OCS-1B — Storm Event: 25 year
Scenario: Post-Development 25 year

Infiltration

Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	201.20	ft	Flow Tolerance (Minimum)	0.000	ft^3/s
Volume (Starting)	0.000	ft^3	Maximum Iterations	35	
Outflow (Starting)	0.00	ft^3/s	ICPM Time Step	0.050	hours

	Maximum Storage	
Time to Peak (hours)	Elevation (ft)	Volume (ft^3)
12.100	208.18	88.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft^3/s)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Pond Inflow....	12.100	19.72	0.000	0.00
Pond Outflow...	12.100	19.49	0.100	0.00

	Total Volume In: Volume (ft³)	Total Volume In: Direction	Total Volume Out: Volume (ft³)	Total Volume Out: Direction
Pond Inflow....	76,074.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	77,246.000	Forward

Mass Balance (ft³)

Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	76,074.000 ft³
Volume (Total Out ICPM)	77,246.000 ft³
Volume (Ending)	29.000 ft³
Elevation (Ending)	203.52 ft
Difference	-1,202.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	1.6 %

Subsection: Interconnected Pond Routing Summary — Return Event: 100 years
Label: OCS-1B — Storm Event: 100 year
Scenario: Post-Development 100 year

Infiltration

Infiltration Method (Computed)	No Infiltration

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	201.20	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Outflow (Starting)	0.00	ft³/s	ICPM Time Step	0.050	hours

Time to Peak (hours)	Maximum Storage: Elevation (ft)	Maximum Storage: Volume (ft³)
12.100	209.16	100.000

	Forward Flow Peaks: Time to Peak (hours)	Forward Flow Peaks: Flow (Peak) (ft³/s)	Reverse Flow Peaks: Time to Peak (hours)	Reverse Flow Peaks: Flow (Peak) (ft³/s)
Pond Inflow....	12.100	28.22	0.000	0.00
Pond Outflow...	12.100	27.96	0.100	0.00

	Total Volume In: Volume (ft³)	Total Volume In: Direction	Total Volume Out: Volume (ft³)	Total Volume Out: Direction
Pond Inflow....	111,437.000	Forward	0.000	Reverse
Pond Outflow...	0.000	Reverse	112,142.000	Forward

Mass Balance (ft³)

Proposed Hydrologic Calculations Report

Subsection: Interconnected Pond Routing Summary — Return Event: 100 years
Label: OCS-1B — Storm Event: 100 year
Scenario: Post-Development 100 year

Volume (Initial ICPM)	0.000 ft³
Volume (Total In ICPM)	111,437.000 ft³
Volume (Total Out ICPM)	112,142.000 ft³
Volume (Ending)	35.000 ft³
Elevation (Ending)	204.01 ft
Difference	-740.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	0.7 %

Subsection: Interconnected Pond Routing Summary — Return Event: 1 years
Label: UI-1B — Storm Event: 1 year
Scenario: Post-Development 1 year

Infiltration

Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.77 ft³/s

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	202.50	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.050	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.050	hours

Time to Peak (hours)	Maximum Storage Elevation (ft)	Maximum Storage Volume (ft³)
12.750	206.38	10,726.000

	Forward Flow Peaks Time to Peak (hours)	Forward Flow Peaks Flow (Peak) (ft³/s)	Reverse Flow Peaks Time to Peak (hours)	Reverse Flow Peaks Flow (Peak) (ft³/s)
Pond Inflow....	12.100	7.76	0.100	0.00
Infiltration...	6.050	0.77	0.000	0.00
Pond Outflow...	0.000	0.00	0.000	0.00

	Total Volume In Volume (ft³)	Total Volume In Direction	Total Volume Out Volume (ft³)	Total Volume Out Direction
Pond Inflow....	28,763.000	Forward	0.000	Reverse
Infiltration...	0.000	Reverse	49,568.000	Forward
Pond Outflow...	0.000	Reverse	0.000	Forward

Mass Balance (ft³)

Volume (Initial ICPM)	0.000 ft³

Subsection: Interconnected Pond Routing Summary | Return Event: 1 years
Label: UI-1B | Storm Event: 1 year
Scenario: Post-Development 1 year

Mass Balance (ft³)	
Volume (Total In ICPM)	28,763.000 ft³
Volume (Total Out ICPM)	49,568.000 ft³
Volume (Ending)	0.000 ft³
Elevation (Ending)	202.50 ft
Difference	-20,805.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	42.0 %

Subsection: Interconnected Pond Routing Summary | Return Event: 2 years
Label: UI-1B | Storm Event: 2 year
Scenario: Post-Development 2 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.77 ft³/s

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	202.50	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.050	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.050	hours

	Maximum Storage	
Time to Peak (hours)	Elevation (ft)	Volume (ft³)
12.350	206.93	11,773.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft³/s)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Pond Inflow....	12.100	9.75	12.400	-0.95
Infiltration...	5.250	0.77	0.000	0.00
Pond Outflow...	0.000	0.00	0.003	0.00

	Total Volume In		Total Volume Out	
	Volume (ft³)	Direction	Volume (ft³)	Direction
Pond Inflow....	32,397.000	Forward	102.000	Reverse
Infiltration...	0.000	Reverse	51,774.000	Forward
Pond Outflow...	0.000	Reverse	0.000	Forward

Mass Balance (ft³)	
Volume (Initial ICPM)	0.000 ft³

Subsection: Interconnected Pond Routing Summary — Return Event: 2 years
Label: UI-1B — Storm Event: 2 year
Scenario: Post-Development 2 year

Mass Balance (ft³)

Volume (Total In ICPM)	32,397.000 ft³
Volume (Total Out ICPM)	51,876.000 ft³
Volume (Ending)	0.000 ft³
Elevation (Ending)	202.50 ft
Difference	-19,479.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	37.5 %

Subsection: Interconnected Pond Routing Summary — Return Event: 10 years
Label: UI-1B — Storm Event: 10 year
Scenario: Post-Development 10 year

Infiltration

Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.77 ft³/s

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	202.50	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.050	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.050	hours

Time to Peak (hours)	Maximum Storage Elevation (ft)	Maximum Storage Volume (ft³)
12.150	207.90	13,292.000

	Forward Flow Peaks Time to Peak (hours)	Forward Flow Peaks Flow (Peak) (ft³/s)	Reverse Flow Peaks Time to Peak (hours)	Reverse Flow Peaks Flow (Peak) (ft³/s)
Pond Inflow....	12.000	11.71	12.200	-3.54
Infiltration...	3.850	0.77	0.000	0.00
Pond Outflow...	0.000	0.00	0.003	0.00

	Total Volume In Volume (ft³)	Total Volume In Direction	Total Volume Out Volume (ft³)	Total Volume Out Direction
Pond Inflow....	41,901.000	Forward	998.000	Reverse
Infiltration...	0.000	Reverse	55,635.000	Forward
Pond Outflow...	0.000	Reverse	0.000	Forward

Mass Balance (ft³)

Volume (Initial ICPM)	0.000 ft³

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Subsection: Interconnected Pond Routing Summary
Label: UI-1B
Scenario: Post-Development 10 year

Return Event: 10 years
Storm Event: 10 year

Mass Balance (ft^3)	
Volume (Total In ICPM)	41,901.000 ft^3
Volume (Total Out ICPM)	56,633.000 ft^3
Volume (Ending)	0.000 ft^3
Elevation (Ending)	202.50 ft
Difference	-14,732.000 ft^3
Percent of Inflow Volume (Interconnected Pond Mass Balance)	26.0 %

Subsection: Interconnected Pond Routing Summary
Label: UI-1B
Scenario: Post-Development 25 year

Return Event: 25 years
Storm Event: 25 year

Infiltration	
Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.77 ft^3/s

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	202.50	ft	Flow Tolerance (Minimum)	0.000	ft^3/s
Volume (Starting)	0.000	ft^3	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft^3/s	ICPM Time Step	0.050	hours
Outflow (Starting)	0.00	ft^3/s	Output Increment	0.050	hours

	Maximum Storage	
Time to Peak (hours)	Elevation (ft)	Volume (ft^3)
12.050	208.00	13,449.000

	Forward Flow Peaks		Reverse Flow Peaks	
	Time to Peak (hours)	Flow (Peak) (ft^3/s)	Time to Peak (hours)	Flow (Peak) (ft^3/s)
Pond Inflow....	11.900	8.89	12.250	-3.95
Infiltration...	3.200	0.77	0.000	0.00
Pond Outflow...	0.000	0.00	0.003	0.00

	Total Volume In		Total Volume Out	
	Volume (ft^3)	Direction	Volume (ft^3)	Direction
Pond Inflow....	48,249.000	Forward	1,253.000	Reverse
Infiltration...	0.000	Reverse	57,427.000	Forward
Pond Outflow...	0.000	Reverse	0.000	Forward

Mass Balance (ft^3)	
Volume (Initial ICPM)	0.000 ft^3

Subsection: Interconnected Pond Routing Summary | Return Event: 25 years
Label: UI-1B | Storm Event: 25 year
Scenario: Post-Development 25 year

Mass Balance (ft³)

Volume (Total In ICPM)	48,249.000 ft³
Volume (Total Out ICPM)	58,680.000 ft³
Volume (Ending)	0.000 ft³
Elevation (Ending)	202.50 ft
Difference	-10,431.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	17.8 %

Subsection: Interconnected Pond Routing Summary | Return Event: 100 years
Label: UI-1B | Storm Event: 100 year
Scenario: Post-Development 100 year

Infiltration

Infiltration Method (Computed)	Constant
Infiltration Rate (Constant)	0.77 ft³/s

Initial Conditions			Calculation Tolerances		
Elevation (Starting Water Surface Computed)	202.50	ft	Flow Tolerance (Minimum)	0.000	ft³/s
Volume (Starting)	0.000	ft³	Maximum Iterations	35	
Infiltration (Starting ICPM)	0.00	ft³/s	ICPM Time Step	0.050	hours
Outflow (Starting)	0.00	ft³/s	Output Increment	0.050	hours

Time to Peak (hours)	Maximum Storage Elevation (ft)	Maximum Storage Volume (ft³)
12.000	208.00	13,449.000

	Forward Flow Peaks Time to Peak (hours)	Forward Flow Peaks Flow (Peak) (ft³/s)	Reverse Flow Peaks Time to Peak (hours)	Reverse Flow Peaks Flow (Peak) (ft³/s)
Pond Inflow....	12.100	11.26	12.350	-2.54
Infiltration...	2.350	0.77	0.000	0.00
Pond Outflow...	0.000	0.00	0.003	0.00

	Total Volume In Volume (ft³)	Total Volume In Direction	Total Volume Out Volume (ft³)	Total Volume Out Direction
Pond Inflow....	60,854.000	Forward	851.000	Reverse
Infiltration...	0.000	Reverse	59,771.000	Forward
Pond Outflow...	0.000	Reverse	0.000	Forward

Mass Balance (ft³)

Volume (Initial ICPM)	0.000 ft³

Mass Balance (ft³)	
Volume (Total In ICPM)	60,854.000 ft³
Volume (Total Out ICPM)	60,622.000 ft³
Volume (Ending)	3,441.000 ft³
Elevation (Ending)	203.92 ft
Difference	-3,209.000 ft³
Percent of Inflow Volume (Interconnected Pond Mass Balance)	5.3 %

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APPENDIX C

NYSDEC STORMWATER SIZING CALCULATIONS

WATER QUALITY VOLUME WORKSHEET

JMC Project:	**17088**
Design Point:	**1**

Overlook Farms	Drainage Area:	**PDA-1**

Initial Water Quality Treatment Volume

DESCRIPTION	Design Storm	Area	Impervious Area	Percent Impervious	Runoff Coefficient	Total Required WQ Volume
SYMBOL	P	A	I	%I	R_V	WQ_V
VALUE	1.5	19.57	11.52	58.87	0.579790496	**61,782**
UNITS	In	Ac	Ac	%	CF	CF
VALUE	Enhanced Phosphorus Removal (WQ_V = 1-yr Storm Runoff)					

Runoff Reduction Techniques (Area)

DESCRIPTION	Total Area	Impervious Area
SYMBOL	A	I
Conservation of Natural Areas		
Sheetflow to Riparian Buffers or Filter Strips		
Vegetated Swale		
Tree Planting / Tree Pit		
Disconnection of Rooftop Runoff		
Stream Daylighting		
TOTAL		
UNITS	Ac	Ac

Adjusted Water Quality Treatment Volume

DESCRIPTION	Design Storm	Area	Impervious Area	Percent Impervious	Runoff Coefficient	Total Required WQ Volume
SYMBOL	P	A	I	%I	R_V	WQ_V
VALUE	1.5	19.57	11.52	58.87	0.579790496	**61,782**
UNITS	In	Ac	Ac	%	CF	CF
VALUE	Enhanced Phosphorus Removal (WQ_V = 1-yr Storm Runoff)					

Net Water Quality Treatment Volume = Adjusted WQv - Provided RRv

Initial Water Quality Treatment Volume	61,782	CF
Adjusted Water Quality Treatment Volume	61,782	CF
Provided Runoff Reduction Volume	102,461	CF
Net Water Quality Treatment Volume	-40,679	CF

Date Printed: 5/26/2021

RUNOFF REDUCTION VOLUME WORKSHEET

JMC Project:	**17088**
Design Point:	**1**

Overlook Farms	Drainage Area:	**PDA-1**

Total Water Quality Treatment Volume

DESCRIPTION	*SYMBOL*	*VALUE*	*UNITS*
Initial Water Quality Volume	WQ_V	**61,782**	CF
Adjusted Water Quality Volume	WQ_V	**61,782**	CF

Minimum Runoff Reduction Volume

DESCRIPTION	*SYMBOL*	*VALUE*	*UNITS*
Design Storm [90% Rainfall Event Number] **or** [1-yr Storm Depth]	P	1.5	In
Total Area of *new* Impervious Cover	Aic	19.57	Ac
Hydrologic Soil Group (HSG) Specific Reduction Factor	S	0.40	
Runoff Coefficient [0.05 + 0.009 x %I]	R_V	0.95	CF
Impervious Cover targeted for Runoff Reduction [S x Aic]	Ai	7.83	Ac
TOTAL VOLUME Required [$RR_V = (P \times R_V \times Ai) / 12$]	RR_V	**40,492**	CF

Runoff Reduction Techniques (Volume)

GREEN INFRASTRUCTURE PRACTICE / SMP	*SYMBOL*	*VALUE*	*UNITS*
Underground Infiltration System	RR_V	28,807	CF
Infiltration Basin C	RR_V	7,035	CF
Infiltration Basin D	RR_V	28,554	CF
Infiltration Basin E	RR_V	38,065	CF
	RR_V		CF
	RR_V		CF
	RR_V		CF
	RR_V		CF
	RR_V		CF
	RR_V		CF
	RR_V		CF
TOTAL	RR_V	**102,461**	CF

Runoff Reduction

Is Total RR_V > Adjusted WQ_V?	**YES**
Is Total RR_V > Minimum RR_V?	**YES**

Date Printed: 5/26/2021

PROPRIETARY PRACTICE WORKSHEET

JMC Project:	**17088**
Design Point:	**1**
Drainage Area:	**PDA-1B**

Cascade Seperator System

Rainfall Distribution Type: **III**

Coefficients for the equation unit peak
$[R = I_a / P]$
$[C_i = A \times R^2 + B \times R + C]$

	A	B	C
C_0	-1.774	0.3301	2.4577
C_1	1.8622	-0.7397	-0.4627
C_2	-0.0648	0.2276	-0.1932

Site Data for Drainage Area to be Treated by Practice

DESCRIPTION	*SYMBOL*	*VALUE*	*UNITS*
Design Storm [90% Rainfall Event Number]	P	1.5	In
Impervious Area	I	3.26	Ac
Area	A	4.19	Ac
Percent Impervious	%I	77.80	%
Runoff Coefficient [0.05 + 0.009 x %I]	R_V	0.75	CF
TOTAL VOLUME Required [$WQ_V = (P \times R_V \times A) / 12$]	WQ_V	**17,116**	CF
Design Storm [1-yr Storm Depth]	P		In
TOTAL VOLUME Required *(TMDL)* [WQ_V = 1-yr Storm Runoff]	WQ_V		CF

Water Quality Peak Flow Calculation

DESCRIPTION	*SYMBOL*	*VALUE*	*UNITS*
Water Quality Volume	WQ_V	17,116	CF
Design Storm [90% Rainfall Event Number] **or** [1-yr Storm Depth]	P	1.5	In
Time of Concentration	t_c	0.8330	Hr
Runoff Volume [$Q = WQ_V / (A \times 3630)$]	Q	1.13	In
Curve Number [$CN = 1000 / (10 + 5P + 10Q - 10 \times (Q^2 + 1.25\,QP)^{1/2}$]	CN	96.35	
Curve Number	CN	96	
Initial Abstraction [$I_a = 200 / CN - 2$]	I_a	0.08	In
Ratio [$R = I_a / P$]	R	0.05	
$C_0 = A \times R^2 + B \times R + C$	C_0	2.47	
C_1 = A x R2 + B x R + C	C_1	-0.50	
C_2 = A x R2 + B x R + C	C_2	-0.18	
Unit Peak Discharge	q_u	322.10	$cfs/mi^2/in$
Peak Discharge [$Q_p = q_u \times A \times Q / 640$]	Q_p	**2.37**	cfs

Proposed Device

DESCRIPTION	*SYMBOL*	*VALUE*	*UNITS*
Water Quality Peak Flow Provided	Q_p	**3.5**	cfs
Water Quality Volume Provided [$WQ_V = 640 \times 3600 \times Q_P / q_u$]	WQ_V	**25,035**	CF
Model Designation		CS=5	
Quantity			

Date Printed: 5/26/2021

PROPRIETARY PRACTICE WORKSHEET

JMC Project:	**17088**
Design Point:	**1**
Drainage Area:	**PDA-1D**

Cascade Seperator System

Rainfall Distribution Type: **III**

Coefficients for the equation unit peak
$[R = I_a / P]$
$[C_i = A \times R^2 + B \times R + C]$

	A	**B**	**C**
C_0	-1.774	0.3301	2.4577
C_1	1.8622	-0.7397	-0.4627
C_2	-0.0648	0.2276	-0.1932

Site Data for Drainage Area to be Treated by Practice

DESCRIPTION	*SYMBOL*	*VALUE*	*UNITS*
Design Storm [90% Rainfall Event Number]	P	1.5	In
Impervious Area	I	2.90	Ac
Area	A	5.76	Ac
Percent Impervious	%I	50.35	%
Runoff Coefficient [0.05 + 0.009 x %I]	R_V	0.50	CF
TOTAL VOLUME Required [$WQ_V = (P \times R_V \times A) / 12$]	WQ_V	**15,780**	CF
Design Storm [1-yr Storm Depth]	P		In
TOTAL VOLUME Required *(TMDL)* [WQ_V = 1-yr Storm Runoff]	WQ_V		CF

Water Quality Peak Flow Calculation

DESCRIPTION	*SYMBOL*	*VALUE*	*UNITS*
Water Quality Volume	WQ_V	15,780	CF
Design Storm [90% Rainfall Event Number] **or** [1-yr Storm Depth]	P	1.5	In
Time of Concentration	t_c	0.8330	Hr
Runoff Volume [$Q = WQ_V / (A \times 3630)$]	Q	0.75	In
Curve Number [$CN = 1000 / (10 + 5P + 10Q - 10 \times (Q^2 + 1.25\ QP)^{½}$]	CN	91.25	
Curve Number	CN	91	
Initial Abstraction [$I_a = 200 / CN - 2$]	I_a	0.19	In
Ratio [$R = I_a / P$]	R	0.13	
$C_0 = A \times R^2 + B \times R + C$	C_0	2.47	
C_1 = A x R2 + B x R + C	C_1	-0.53	
C_2 = A x R2 + B x R + C	C_2	-0.17	
Unit Peak Discharge	q_u	324.84	$cfs/mi^2/in$
Peak Discharge [$Q_p = q_u \times A \times Q / 640$]	Q_p	**2.21**	cfs

Proposed Device

DESCRIPTION	*SYMBOL*	*VALUE*	*UNITS*
Water Quality Peak Flow Provided	Q_p	**3.5**	cfs
Water Quality Volume Provided [$WQ_V = 640 \times 3600 \times Q_P / q_u$]	WQ_V	**24,825**	CF
Model Designation		CS-5	
Quantity			

Date Printed: 5/26/2021

PROPRIETARY PRACTICE WORKSHEET

JMC Project:	**17088**
Design Point:	**1**
Drainage Area:	**PDA-1D**

Cascade Seperator System

Rainfall Distribution Type: **III**

Coefficients for the equation unit peak
[$R = I_a / P$]
[$C_i = A \times R^2 + B \times R + C$]

	A	B	C
C_0	-1.774	0.3301	2.4577
C_1	1.8622	-0.7397	-0.4627
C_2	-0.0648	0.2276	-0.1932

Site Data for Drainage Area to be Treated by Practice

DESCRIPTION	*SYMBOL*	*VALUE*	*UNITS*
Design Storm [90% Rainfall Event Number]	P	1.5	In
Impervious Area	I	4.53	Ac
Area	A	8.51	Ac
Percent Impervious	%I	53.23	%
Runoff Coefficient [0.05 + 0.009 x %I]	R_V	0.53	CF
TOTAL VOLUME Required [$WQ_V = (P \times R_V \times A) / 12$]	WQ_V	**24,516**	CF
Design Storm [1-yr Storm Depth]	P		In
TOTAL VOLUME Required *(TMDL)* [WQ_V = 1-yr Storm Runoff]	WQ_V		CF

Water Quality Peak Flow Calculation

DESCRIPTION	*SYMBOL*	*VALUE*	*UNITS*
Water Quality Volume	WQ_V	24,516	CF
Design Storm [90% Rainfall Event Number] **or** [1-yr Storm Depth]	P	1.5	In
Time of Concentration	t_c	0.8330	Hr
Runoff Volume [$Q = WQ_V / (A \times 3630)$]	Q	0.79	In
Curve Number [$CN = 1000 / (10 + 5P + 10Q - 10 \times (Q^2 + 1.25\ QP)^{½}$]	CN	91.88	
Curve Number	CN	92	
Initial Abstraction [$I_a = 200 / CN - 2$]	I_a	0.18	In
Ratio [$R = I_a / P$]	R	0.12	
$C_0 = A \times R^2 + B \times R + C$	C_0	2.47	
C_1 = A x R2 + B x R + C	C_1	-0.52	
C_2 = A x R2 + B x R + C	C_2	-0.17	
Unit Peak Discharge	q_u	325.46	$cfs/mi^2/in$
Peak Discharge [$Q_p = q_u \times A \times Q / 640$]	Q_p	**3.43**	cfs

Proposed Device

DESCRIPTION	*SYMBOL*	*VALUE*	*UNITS*
Water Quality Peak Flow Provided	Q_p	**3.5**	cfs
Water Quality Volume Provided [$WQ_V = 640 \times 3600 \times Q_P / q_u$]	WQ_V	**24,777**	CF
Model Designation		CS-5	
Quantity			

Date Printed: 5/26/2021

PROPRIETARY PRACTICE WORKSHEET

JMC Project:	**17088**
Design Point:	**1**
Drainage Area:	**PDA-1C**

Cascade Seperator System

Rainfall Distribution Type: **III**

Coefficients for the equation unit peak
$[R = I_a / P]$
$[C_i = A \times R^2 + B \times R + C]$

	A	B	C
C_0	-1.774	0.3301	2.4577
C_1	1.8622	-0.7397	-0.4627
C_2	-0.0648	0.2276	-0.1932

Site Data for Drainage Area to be Treated by Practice			
DESCRIPTION	*SYMBOL*	*VALUE*	*UNITS*
Design Storm [90% Rainfall Event Number]	P	1.5	In
Impervious Area	I	0.83	Ac
Area	A	1.11	Ac
Percent Impervious	%I	74.77	%
Runoff Coefficient [0.05 + 0.009 x %I]	R_V	0.72	CF
TOTAL VOLUME Required $[WQ_V = (P \times R_V \times A) / 12]$	WQ_V	**4,370**	CF
Design Storm [1-yr Storm Depth]	P		In
TOTAL VOLUME Required *(TMDL)* $[WQ_V$ = 1-yr Storm Runoff]	WQ_V		CF

Water Quality Peak Flow Calculation			
DESCRIPTION	*SYMBOL*	*VALUE*	*UNITS*
Water Quality Volume	WQ_V	4,370	CF
Design Storm [90% Rainfall Event Number] **or** [1-yr Storm Depth]	P	1.5	In
Time of Concentration	t_c	0.8330	Hr
Runoff Volume $[Q = WQ_V / (A \times 3630)]$	Q	1.08	In
Curve Number $[CN = 1000 / (10 + 5P + 10Q - 10 \times (Q^2 + 1.25\ QP)^{½}]$	CN	95.88	
Curve Number	CN	96	
Initial Abstraction $[I_a = 200 / CN - 2]$	I_a	0.09	In
Ratio $[R = I_a / P]$	R	0.06	
$C_0 = A \times R^2 + B \times R + C$	C_0	2.47	
C_1 = A x R2 + B x R + C	C_1	-0.50	
C_2 = A x R2 + B x R + C	C_2	-0.18	
Unit Peak Discharge	q_u	323.04	$cfs/mi^2/in$
Peak Discharge $[Q_p = q_u \times A \times Q / 640]$	Q_p	**0.61**	cfs

Proposed Device			
DESCRIPTION	*SYMBOL*	*VALUE*	*UNITS*
Water Quality Peak Flow Provided	Q_p	**1.0**	cfs
Water Quality Volume Provided $[WQ_V = 640 \times 3600 \times Q_P / q_u]$	WQ_V	**7,275**	CF
Model Designation		CS=3	
Quantity			

Date Printed: 5/26/2021

APPENDIX D

REPORT ON SUBSURFACE SOIL AND FOUNDATION INVESTIGATION

CARLIN • SIMPSON & ASSOCIATES
Consulting Geotechnical and Environmental Engineers

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18 January 2021

Farrell Building Company
2317 Montauk Highway
Bridgehampton, NY 11932

Attn: Mr. Stephen H. Zagoren

Re: Report on Subsurface Soil and Foundation Investigation
Proposed Hudson Place
Overlook Farm - Route 9W
Newburgh, NY (CSA Job #18-130)

Dear Mr. Zagoren:

In accordance with our proposal dated 15 October 2019, our supplemental proposal dated 20 October 2020 and your subsequent authorization, we have completed a Subsurface Soil and Foundation Investigation for the referenced site. The purpose of this study was to determine the nature and engineering properties of the subsurface soil and groundwater conditions for the new construction, to recommend a practical foundation scheme, to determine the allowable bearing capacity of the site soils, and to determine the soil permeability in the new subsurface stormwater management areas.

We understand that the planned construction will consist of fifteen (15) multi-family residential buildings, a clubhouse, a small sewer treatment building, and a 25,000 ft^2 commercial building. The proposed construction will also include many site retaining walls, soil slopes, stormwater management areas, a tennis court, new utilities and new driveways and parking areas. To guide us in our study, you have provided us with a site plan that indicate the location of the proposed construction.

Our scope of work for this project included the following:

1. Reviewed the proposed layout, the existing site conditions, the expected soil conditions, and planned this study.

2. Retained General Borings Inc. to advance forty-eight (48) test borings at the subject site.

3. Performed nineteen (19) borehole infiltration tests at selected locations on the subject site.

4. Laid out the boring locations in the field, provided full time inspection of the explorations, obtained soil samples, and prepared detailed logs and a Boring Location Plan.

5. Performed soil identification tests on selected soil samples in our laboratory.

6. Analyzed the field and laboratory test data and prepared this report containing the results of this study.

1.0 SITE DESCRIPTION

The subject property is an irregularly shaped parcel located at 5409 and 5417 Route 9W and 31 Morris Drive in Newburgh, Orange County, New York. The property is located on the west side of Route 9W and immediately south of Morris Drive. The subject site is currently referred to as Section 9, Block 1, Lots 11, 12, 56.21, and 56.22 on property records.

The site is known at Overlook Farm. There is a farm market building with multiple greenhouses, a barn, and two single-family dwellings on the property. The remainder of the site consists of orchards with two ponds and dirt roads. There is also a stream in the eastern portion of the site. There are grass lawn areas around the two dwellings, a garden area in the eastern portion of the property, an asphalt parking lot near the farm market building, and some wooded areas along the property boundaries and in areas around the on-site stream. The surface grades generally slope down to the east or southeast and range from approximately elevation +203.0 to elevation +409.0.

2.0 PROPOSED CONSTRUCTION

We understand that the planned construction will consist of fifteen (15) multi-family residential buildings, a clubhouse, a small sewer treatment building, and a 25,000 ft^2 commercial building. The finished floor elevations of the proposed multi-family buildings vary from +344.0 to +245.0. Cuts and fills in the areas of the proposed multi-family residential buildings will range up to twenty-six (26) feet.

The clubhouse, small sewer treatment building, and commercial building have finished floor elevations of +227.20, +211.0, and +212.0, respectively. Fills in the area of the clubhouse building will range up to seven (7) feet. Cuts in the area of the proposed sewer treatment will range up to five (5) feet. Fills in the area of the proposed commercial building will range up to fourteen (14) feet.

In order to achieve the desired site grades, retaining walls will be required throughout the site primarily around the proposed multi-family buildings. The majority of the new retaining walls will range up to approximately eleven (11) feet in height. A large retaining wall is planned to the east of proposed building #4, #5, and #6, which will range up to approximately fourteen (14) feet in height. Site development will also include soil slopes, stormwater management areas, new utilities, a tennis court and new driveways and parking areas.

The following evaluation is based on information that has been provided to our office as of the date of this report. Once the construction plans has been finalized, a copy of the plans should be forwarded to our office so that we can review them along with the recommendations in this report. At that time, any changes or additional recommendations can be provided, if required.

3.0 SUBSURFACE CONDITIONS

To determine the subsurface soil and groundwater conditions at the site forty-eight (48) borings were performed in February 2020 (B-1 through B-25) and in October and November 2020 (B-101 through B-123). The borings were performed using hollow stem augers and split spoon sampling. Detailed boring logs have been prepared and are included in this report. The borings were completed in October 2020 under the full-time inspection of Carlin-Simpson & Associates. Our field engineer visually identified all of the soil samples obtained during the boring operations and select samples were tested in our laboratory. The results of these tests are also included in this report.

3.1 Soils

The soil descriptions shown on the boring logs are based on the Burmister Classification System. In this system, the soil is divided into three components: Sand (S), Silt ($) and Gravel (G). The major component is indicated in all capital letters, the lesser in lower case letters. The following modifiers indicate the quantity of each lesser component:

Modifier	Quantity
trace (t)	0 -10%
little (l)	10% - 20%
some (s)	20% - 35%
and (a)	35% - 50%

The subsurface soil conditions encountered in the test borings can be summarized as follows:

Stratum 1A Topsoil — The surface layer in 43 of the 48 borings consists of topsoil that ranges from approximately 1 to 8 inches in thickness.

Stratum 1B Asphalt or Gravel — The surface layer in boring B-21 consists of asphalt that is approximately 2 inches in thickness. In boring B-10, the surface layer consists of gravel that is approximately 1 inch in thickness.

<u>Stratum 2</u>
Existing Fill

At the surface in borings B-23, B-104 and B-123, beneath the surface layers in borings B-21, B-101, B-103 and B-109 is existing fill that generally consists of loose to medium dense brown, gray coarse to fine SAND, little (to some) Silt, little (to some) coarse to fine Gravel. Debris (i.e. brick) was noted in borings B-21 and B-23. The existing fill in the borings extends to depths ranging from 0'9" to 8'6" below existing ground surface at the boring locations.

<u>Stratum 3</u>
Silty Gravelly Sand or Sandy Gravel

Beneath the surface layers and existing fill in is medium dense brown, gray coarse to fine SAND, little (to some) Silt, little (to and) and coarse to fine Gravel or gray, brown coarse to fine GRAVEL some, coarse to fine Sand, trace Silt. The Silty Gravelly Sand extend in the borings to depths ranging from 5'0" to 22'0" below existing ground surface. During this study, 28 borings were terminated in this layer. The Sandy Gravel layer was encountered to depths ranging from 5'8' to 20'0" below existing ground surface elevation at select locations.

<u>Stratum 4</u>
Sandy Silt

Below the topsoil layer in boring B-116, B-117, B-118, and B-121 is medium stiff brown, gray SILT or Clayey SILT some, coarse to fine Sand, little medium to fine Gravel. In the borings the sandy silt extends to depth ranging from 1'6" to 5'3" below the existing ground surface.

<u>Stratum 5</u>
Completely Weathered Shale

Underlying the Silty Gravelly Sand and Sandy Gravel in borings B-5 through B-10, B-15, and B-17 is highly to completely weathered Shale. This layer is soil like in state, however, there could be denser pockets that cannot be conventionally excavated. The completely weathered shale was encountered at depths ranging from about 1'0" to 20'0" below the existing ground surface at the referenced boring locations.

<u>Stratum 6</u>
Shale Bedrock

Auger refusal on probable Shale bedrock was encountered in 18 boring locations at depths ranging from 2'0" to 20'0" below the existing ground surface.

The upper 5'0" to 10'0" of the Shale bedrock was cored at borings B-5, B-6, B-8, and B-20 starting at depths ranging from 9'0" to 15'0" below the surface. The rock core recovery ranged from 44% to 100% and the rock quality designation (RQD) of the recovered cores ranged from 11% to 77%. Based on the RQD and visual inspection, the upper portion of the bedrock ranges from very poor quality in a crushed condition to good quality in a massive, moderately jointed condition.

3.2 <u>Bedrock</u>

Based on our experience and the boring observations, the in-situ bedrock at the site will range from completely weathered rock in a soil-like state, to a massive, moderately jointed, good condition. The rock generally transitions into harder bedrock with increasing depth. The completely weathered rock was encountered at depths ranging from 1'0" to 20'0" below the ground surface (elevations +341.0 to +219.5). Auger refusal on harder bedrock was encountered at depths ranging from 2’0” to 20’0” below the existing ground surface (elevation +338.0 to +214.0). The bedrock observations are summarized in Table 1 and Table 7 below.

Substantial cuts are proposed for both buildings #3 and #6. Both buildings have a basement finished floor elevation of +234.0 and +269.0, respectively. Borings B-6 and B-8 were performed in both building footprints, respectively. Completely weathered rock was encountered at 10’6” and 1’9” below the existing ground surface (elevations +239.5 and +278.3). Harder bedrock was cored in both of these borings starting at a depth of 15’0” and 5’0” below the existing ground surface (elevations +245.0 and +275.0), respectively. Based on the proposed construction and boring data these excavations will likely extend six (6) feet to eleven (11) feet into the harder bedrock that may require the use of hydraulic hammering or blasting to achieve the proposed depths.

Penetration into the bedrock and completely weathered rock with excavation equipment will depend on the degree of weathering and fracturing in the rock. The upper few feet of rock may be “rippable” by using large construction equipment, but we anticipate that the “rippability” of the bedrock will be variable and limited. It should not be assumed that the completely weathered rock (very dense material in a soil-like state) can be excavated with conventional equipment. Harder rock may be encountered, and the use of hydraulic hammers and/or localized rock blasting may be required to excavate the harder, intact bedrock. Additional issues related to rock removal are discussed in Section 5.1 of this report.

3.3 Groundwater

During this investigation groundwater was encountered in twenty-one (21) of the borings throughout the site at depths ranging from 3’2” to 17’6” below the existing ground surface (elevations +335.0 to +197.3). Evidence of seasonal high groundwater (ie. mottling) was encountered in borings B-121 and B-122 at a depth of 2’0” in both borings (elevations +303.0 and +307.0, respectively). The groundwater observations are summarized in Table 1 and Table 7.

Building #14 has a basement finished floor elevation of +332.0. The observed groundwater elevation in boring B-18 is +335.0. Based on the anticipated construction and the groundwater observations, the basement for building #14 will extend 2-feet below the groundwater table. If this slab elevation is not revised, sub slab underdrains and permanent dewatering will be required for this building.

Groundwater on the subject site will be controlled by the topography and the underlying bedrock surface. During construction, we expect that perched or trapped water may be encountered within the existing fill, in the silty site soils, and/or along the soil/rock interface, especially during wet periods. Groundwater may daylight through the cut rock face during construction. Proper groundwater control measures will be required in the event that water is encountered in the site excavations. Variations in the location of the long-term water table may occur as a result of changes in precipitation, evaporation, surface water runoff, and other factors not immediately apparent at the time of this exploration.

4.0 SUMMARY OF DESIGN RECOMMENDATIONS

Below is a summary of the major design and construction considerations for this project. Additional recommendations are provided in the following sections of this report.

- *Subsurface Conditions (Section 3.0)*
  - Isolated existing fill was encountered in the eastern portion of the site at boring locations B-21, B-23, B-101, B-103, B-104, B-109, and B-123 to depths ranging from 0'9" to 8'6" below the existing ground surface (elevations +209.2 to +197.5).
  - Groundwater was encountered in twenty-one (21) of the borings at depths ranging from 3'2" to 17'6" below the existing ground surface (elevations +335.0 to +197.3).
  - Evidence of seasonal high groundwater was encountered in borings B-121 and B-122 at a depth of 2'0" in both borings (elevations +303.0 and +307.0, respectively).
  - Completely weathered shale was encountered at depths ranging from 1'0" to 20'0" below the ground surface (elevations +341.0 to +219.5).
  - Crushed, highly weathered to a massive, moderately jointed, moderately weathered Shale bedrock was cored at boring locations B-5, B-6, B-8 and B-20 penetrating the bedrock 5-feet, 10-feet, 10-feet and 5-feet, respectively.
  - A summary of the subsurface observations are provided in Table 1 and Table 7.

- *Building Areas Preparation (Section 5.1)*
  - Surface materials must be stripped from proposed building areas.
  - Use of hydraulic hammers and/or localized blasting may be required in order to achieve the bottom of the building excavations, especially in the area of buildings #3 and #6.
  - The exposed subgrade shall be densified with several passes of a large vibratory roller prior to excavation of the new foundations or prior to placing compacted fill.
  - Some of the site soils have a high silt content and will be very moisture sensitive. Preparation of wet and sensitive subgrades with geotextile fabric and clean stone may also be necessary.
  - Areas of isolated existing fill are present at the site. The existing fill is not suitable for support of the proposed building foundations or floor slabs.
  - Where the existing fill is encountered it shall be completely removed and replaced with new compacted fill.
  - New backfill shall be compacted to at least 95% of its Maximum Modified Dry Density (ASTM D1557).

- *Building Foundations Recommendations (Section 5.2)*
  - Special construction procedures must be employed if the building foundation bears on dissimilar material (i.e. soil and rock).
  - The new foundations may be designed as spread footing type foundations bearing on virgin soil, engineer-approved compacted fill, weathered rock or bedrock.
  - Net design bearing pressure is 4,000 psf.
  - Minimum depth for frost protection is 42 inches.
  - Seismic Site Class is D or Stiff Soil Profile.

- *<u>Building Floor Slab Recommendations (Section 5.3)</u>*
  - The virgin soil, new compacted fill, and bedrock can be used for support of the proposed floor slabs.
  - The floor slabs may be designed as slab on grade.
  - Modulus of subgrade reaction is 200 pci.

- *<u>Additional Site Recommendations (Section 6.0)</u>*
  - *Subsurface Stormwater Management Systems (Section 6.1)*
    - Several stormwater management areas, and one subsurface stormwater management area are proposed for this site.
    - Borehole infiltration tests were performed in each of the proposed stormwater management areas.
  - *New Retaining Walls (Section 6.2)*
    - Existing fill is not suitable for support of the proposed retaining walls and shall be completely removed from below the wall areas and replaced with new structural fill.
    - Retaining walls may be designed as MSE walls.
    - For an MSE wall, additional excavation may be required beyond the wall areas in order to install the geogrid reinforcement.
    - Retaining wall base shall bear on virgin soil, weathered bedrock, or new compacted fill.
    - Net design bearing pressure is 4,000 psf.
  - *Pavement (Section 6.4)*
    - Densified existing fill, virgin soil, new compacted fill, and weathered rock may be used to support the pavement.

5.0 <u>BUILDING EVALUATION</u>

We understand that the planned construction will consist of fifteen (15) multi-family residential buildings, a clubhouse, a small sewer treatment building, and a 25,000 ft^2 commercial building. The finished floor elevations of the proposed multi-family buildings vary from +344.0 to +245.0. Cuts and fills in the areas of the proposed multi-family residential buildings will range up to twenty-six (26) feet.

The clubhouse, small sewer treatment building, and commercial building have finished floor elevations of +227.20, +211.0, and +212.0, respectively. Fills in the area of the clubhouse building will range up to seven (7) feet. Cuts in the area of the proposed sewer treatment will range up to five (5) feet. Fills in the area of the proposed commercial building will range up to fourteen (14) feet. Below is a summary of boring observations for each proposed building.

Table 1 – Summary of Boring Observations – New Buildings

Boring No.	Associated Building/ Area	Approximate Existing Ground Surface Elevation	Depth to Groundwater (Elevation)	Depth to Bottom of Existing Fill (Elevation)	Depth to Bedrock (Elevation)
B-2	Clubhouse	+221.0	9’6” (+211.5)	NE	NE to 22’0”
B-3	Building 1	+232.0	10’0” (+222.0)	NE	AR @ 18’0” (+214.0)
B-4	Building 2	+235.0	7’6” (+227.5)	NE	AR @ 15’0” (+220.0)
B-5	Building 3	+250.0	NWR	NE	CWR @ 10’6” (239.5) C @ 13’0” (+222.5)
B-6	Building 3	+260.0	NWR	NE	CWR @ 5’8” (+254.3) C @ 15’0” (+245.0)
B-8	Building 6	+280.0	NWR	NE	CWR @ 1’9” (278.3) C @ 5’0” (+275.0)
B-9	Building 5	+264.0	NE to 12’6”	NE	CWR @ 5’0” (+259.0) AR @ 12’6” (+251.5)
B-10	Building 4	+246.0	NE to 19’3”	NE	CWR @ 17’0” (+229.0) AR @ 19’3” (+226.8)
B-11	Building 10	+299.0	NE to 13’6”	NE	AR @ 13’6” (+285.5)
B-12	Building 9	+289.0	NE to 20’0”	NE	AR @ 20’0” (+269.0)
B-13	Building 8	+290.0	12’0” (+278.0)	NE	NE to 22’0”
B-14	Building 7	+292.0	NE to 19’0”	NE	AR @ 19’0” (+273.0)
B-15	Building 11	+333.0	NE to 15’0”	NE	CWR @ 13’0” (+320.0) AR @ 15’0” (+318.0)
B-16	Building 12	+329.0	NE to 4’0”	NE	CWR @ 1’0” (+341.0) AR @ 4’0” (+338.0)
B-17	Building 13	+342.0	10’0” (+332.0)	NE	CWR @ 20’0” (+322.0)
B-18	Building 14	+345.0	10’0” (+335.0)	NE	AR @ 19’0” (+326.0)
B-19	Building 15	+344.0	NE to 16’6”	NE	AR @ 16’6” (+327.5)
B-21	Retail Store	+206.0	10’9” (+195.25)	8’6” (+197.5)	NE to 22’0”
B-22	Retail Store	+202.5	5’3” (+197.3)	NE	NE to 22’0”
B-23	Retail Store	+207.5	7’0” (+200.5)	6’3” (+201.3)	NE to 17’0”
B-24	Retail Store	+201.0	3’2” (+197.8)	NE	NE to 17’0”

NE – Not Encountered
NWE – No Water Encountered
NWR – No Water Reading
CWR – Completely Weathered Rock
AR – Auger Refusal
C – Cored Bedrock

In borings B-21, B-23, B-101, B-103, B-104, B-109, and B-123, located in or near the proposed 25,000 ft^2 commercial building footprint, existing fill is present to depths ranging from 0'9" to 8'6" below the existing ground surface (elevations +209.2 to +197.5). The depth and extend of the existing fill is expected to be variable and may be deeper in unexplored areas of the site. The existing fill is not an acceptable bearing material for the new building foundations or floor slabs. The consistency and density of the soil fill are not predictable. Certain areas may contain clean dense soils while other areas may contain loose material, void spaces, and/or debris. The existing soil fill creates the possibility of intolerable differential settlements under loading. To eliminate the potential for damaging differential settlements, the existing fill shall be completely removed from the proposed building areas and replaced with new engineer-approved compacted fill.

Provides all of existing fill is remediated, the new buildings may bear on the virgin soil, new engineer-approved compacted fill, or bedrock. Recommendations for preparation of the building areas are provided in Section 5.1. Foundation recommendations for the new buildings are provided in Section 5.2 below. In addition, the proposed building floor slabs may be designed as slab on grade bearing on new engineer-approved compacted, virgin soils, or bedrock. Floor slabs recommendations can be found in Section 5.3 below.

5.1 Building Area Preparation

In order to prepare the site for construction, all surface materials such as vegetation and topsoil shall be removed from the planned building areas, extending at least ten (10) feet beyond the new construction limits, where practical.

As part of the site development, the existing structures will also be demolished. All debris resulting from the demolition of these structures must be completely removed from the new building footprints, extending at least ten (10) feet beyond the new building limits, where practical. This shall include the complete removal of all foundations, floor slabs, retaining walls, utilities, pavement, and miscellaneous debris. Where the removal of existing structures or associated materials extends below the planned building, the resulting excavations shall be backfilled with new compacted fill as described below.

Existing utilities, where they are encountered within the planned building areas, should be either abandoned or rerouted around the new structures. Once the utility has been rerouted or abandoned, the section of pipe and any associated structure within the building areas should be completely removed. The removal of the pipe and structure must also include any loose fill around the pipe or structure. After the pipe, associated structure, and associated loose backfill have been removed, the resulting excavation shall be backfilled with new controlled fill as described below.

Rock Removal - Blasting

In order to develop the site, rock or weathered rock cuts will be required, particularly near buildings #3 and #6 and the driveway and parking areas around the two buildings. Rock cuts may also be needed to the west of proposed building #10 for the roadway.

Based on our experience, the in-situ bedrock and weathered bedrock will be variable, ranging from a completely weathered to an intact bedrock. To excavate the rock, the top 1 to 5 feet of rock may be “rippable” by using large construction equipment. We anticipate that the “rippability” of the bedrock will be variable and limited. The use of hydraulic hammers and/or blasting will be required to excavate the harder, massive, moderately jointed rock.

Rock blasting may be required to achieve the proposed site grades. Nearby buildings and existing underground utilities could be affected by the blasting. The blasting operation shall be monitored by a seismologist using a seismograph. The maximum peak particle velocity on any one component of an instrument measuring three-component motion shall not exceed the limits indicated in Table 2 below.

Table 2 – Distance Versus Peak Particle Velocity Method

Distance in Feet To Nearest Building	Peak Particle Velocity of any One Component (Inches per Second)
0 to 100	1.50
100 to 200	1.25
200 to 500	1.00
500 to 1,000	0.50
Over 1,000	0.25

Each blast will be monitored independently to insure that this criterion is not exceeded. The monitoring results shall be provided to the blasting contractor as soon as possible so that the blasting program can be modified if necessary.

We recommend that a minimum of four (4) monitoring points be established, to the north, east, south and west of the planned blast area. The seismograph sensors should be placed near the closest structure and at any structures identified during the pre-blast survey that are considered to be susceptible to vibration damage. Where possible, the seismograph sensors should be placed on the bedrock surface. This will require shallow excavations through the overburden soils in the monitoring areas.

Prior to the start of any construction, a Blasting Management Plan shall be prepared by the blasting contractor for this project. This plan shall be in accordance with State regulations and the Explosive Materials Code, NFPA No. 495, National Fire Prevention Association. Additionally, all blasting should adhere to the provisions of 29 CFR Ch. XVII Section 1910.109 for explosives and blasting agents and to all local requirements.

Prior to any blasting work being done, a licensed professional engineer shall be retained to perform a detailed pre-blast survey of existing structures located within 300 feet of the planned blast area. The pre-blast survey shall be conducted in accordance with the requirements of local authorities. A copy of all reports prepared by the licensed engineer shall be submitted to the Town Engineer and the owner’s representative in a timely manner.

Prior to the beginning of blasting, a notice will be sent to all residential and commercial property owners within a 500-foot radius of the blast area. This notification will be given at least 48 hours before blasting takes place. A contact person will be established and named in this notice to respond to all concerns raised by nearby residents during the blasting phase of the project. The contact person will respond to any inquiries within 24 hours.

The blasting contractor should avoid over-blasting the rock. Over-blasting will disturb the deeper intact rock that will be used as bearing material for the proposed foundations and floor slabs. Any material that is over-blasted will have to be removed and replaced with new structural fill under the full-time inspection of Carlin-Simpson & Associates. Carlin-Simpson & Associates will be responsible for determining what material is to be removed and will direct the contractor during the excavation.

Removal of Existing Fill

In borings B-21, B-23, B-101, B-103, B-104, B-109, and B-123, located in or near the proposed 25,000 ft^2 commercial building footprint, is existing fill. The existing fill was encountered to depths ranging from 0'9" to 8'6" below the existing ground surface (elevations +209.2 to +197.5). The depths and extent of the existing fill is expected to be variable and may be deeper in unexplored areas of the site. Where existing fill is encountered in the building area, it must be completely removed and replaced as described below.

Based on the boring observations and the proposed construction for the planned 25,000ft^2 commercial building, we anticipate an excavation up to 8-feet below existing ground surface elevations will be required to remove the existing fill. The excavation shall extend through the existing fill, down to the virgin soil. At the bottom of the excavation, the removal of the unsuitable material shall extend horizontally beyond the building limits a minimum distance of 1'0" plus a distance equal to the depth of the excavation below the planned foundation bearing elevation. For example, if the removal of the existing fill extends vertically 6'0" below the planned foundation bearing elevation, the excavation must extend horizontally a minimum of 7'0" (1'0" plus 6'0") beyond the new building limits at that location.

The removal of the existing fill from the proposed building areas shall be performed under the full time inspection of Carlin-Simpson & Associates. The on-site representative from Carlin-Simpson & Associates shall direct the contractor during this operation to ensure that all of the unsuitable material has been removed from the proposed building areas.

During the removal of the unsuitable material, the contractor should segregate the potentially re-usable existing soil/fill material from the non-reusable fill (i.e. debris and topsoil). The on-site representative from Carlin-Simpson & Associates shall evaluate the suitability of the excavated materials for use as compacted fill during the excavation and prior to its re-use. Potentially usable fill should be stockpiled and covered with tarps or plastic sheeting for protection from excess moisture. Any fill material that is or becomes wet must be dried prior to its re-use.

After the surface materials and existing fill have been removed and prior to the placement of new structural fill, the exposed subgrade soil must be graded level and proofrolled by several passes of a vibratory drum roller. The proofrolling operation is necessary to densify the underlying soils. Carlin-Simpson & Associates shall be retained to observe the proofrolling of the subgrade. If any soft or otherwise unsuitable soils are noted, the unsuitable material shall be removed and replaced with new structural fill. Carlin-Simpson & Associates shall be responsible for determining what material, if any, is to be removed and will direct the contractor during this operation.

Densification of Subgrade Soils (Proofrolling)

Where existing fill is not present within the building area footprint, the subgrade shall be densified by proofrolling the subgrade by several passes of a large vibratory drum roller. The proofrolling is necessary to densify the underlying soils. Proofrolling must be performed prior to the excavation for new foundations, this will be done for building footprints which are at or need to be cut to achieve designed elevations. In the event that the building subgrade needs to be filled to achieve planned subgrade elevations, the proofrolling shall be performed prior to the placement of new fill in the building area.

A representative from Carlin-Simpson & Associates shall observe the proofrolling operation. If any excessive movement is noted during the proofrolling, the soft soil shall be removed and replaced with new compacted fill. The Carlin-Simpson & Associates representative shall be responsible for determining what material, if any, is to be removed and will direct the Contractor during this operation. The subgrade proofrolling may be eliminated, if in the opinion of the geotechnical engineer, the proofrolling will cause pumping or otherwise disturb the stability of the subgrade.

Handling Wet and Sensitive Subgrades

Building #14 has a basement finished floor elevation of +332.0. The observed groundwater elevation in boring B-18 is +335.0. Based on the anticipated construction and the groundwater observations, the basement for building #14 will extend 2-feet below the groundwater table. If this slab elevation is not revised, sub slab underdrains and permanent dewatering will be required for this building.

Proper groundwater control measures (i.e. sumps and pumps) will be required in the event that water is encountered in the building excavations. Where required, temporary groundwater control measures shall consist of one (1) or more sumps and pumps. The sumps shall consist of a perforated pipe at least eight (8) inches in diameter, surrounded by crushed stone and filter fabric. The sump pits must be installed just outside the planned excavation area and at least two (2) feet below the lowest anticipated subgrade elevation. The sumps and pumps must be set and in operation prior to excavating below the water table. The pumps shall be used to temporarily lower the surrounding groundwater level and keep the building excavation relatively dry.

Groundwater was encountered in twenty-one (21) of the borings at depths ranging from 3’2” to 17’6” below the existing ground surface (elevations +335.0 to +197.3). For most building areas, groundwater is not expected to be encountered during construction. However, perched or trapped groundwater may be present in the existing fill, silty site soils and/or in the bedrock fractures. Where perched or trapped groundwater is encountered, dewatering may be required to construct the foundations and to prepare the subgrade.

In the event, the exposed subgrade within the planned building area becomes wet or soft, stabilizing the subgrade surface may be required in order to construct the foundations and floor slab. The subgrade may be stabilized with geotextile filter fabric and crushed stone to provide a working platform and support for the new foundation. Carlin Simpson and Associates will determine the need for stabilization and will direct the contractor during construction.

Installation of New Structural Fill

New fill required to achieve final grades shall consist of either engineer-approved on-site soil or imported sand and gravel. Imported sand and gravel shall contain less than 20% by weight passing a No. 200 sieve. The new fill shall be placed in layers not exceeding one (1) foot in thickness and each layer shall be compacted to at least 95% of its Maximum Modified Dry Density (ASTM D1557). Each layer must be compacted, tested, and approved by the Carlin-Simpson & Associates field representative prior to placing subsequent layers. The suitability of the excavated soil for reuse as compacted structural fill is discussed in Section 6.7 below.

If imported structural fill will be required during construction, the imported structural fill shall meet the following specified gradation:

US Standard Sieve Size	Percent Finer By Weight
3 inch	100
No. 4	30-80
No. 40	10-50
No. 200	0-20

Some rock cuts are also required at the site to achieve proposed grades. We anticipate that rock excavated material will be processed onsite for use of backfill material. This onsite proceeded material, as long as it is well graded as described in Section 6.7 below, can be used as structural backfill in the building footprint.

5.2 New Building Foundations

Once the planned building areas have been prepared as described in Section 5.1 above, the new foundations may be constructed on the virgin site soils, new compacted fill, and bedrock.

Bedrock Special Construction Procedures

Where rock and soil is encountered in the foundation excavations, "Special Construction Procedures" must be employed. When continuous wall footings or closely spaced column footings (20 feet or less) bear on dissimilar material (i.e. rock and soil) the potential for differential movement exists. A footing bearing in rock will not move, whereas a footing bearing on soil will settle slightly due to the compressive nature of all soils when subjected to new loads. The area between movement and non-movement will develop a (shear) stress point. Cracks in foundations and walls will be the result from such movement. Therefore, continuous wall footings must bear either entirely on rock or entirely on soil for any individual structure. Alternatively, for larger structures, transition zones can be constructed to create a gradual transition from a soil to a rock bearing subgrade.

Where rock and soil both exist at the bearing elevation in a foundation excavation, the footings must either be lowered to bear entirely on rock, or a minimum of 18 inches of rock must be removed from below planned footing bottom. The over-excavated 18 inches must then be filled with a granular material having a maximum particle size of 1/2-inch and containing at least 10% but not more than 30% material by weight passing a No. 200 sieve. The fill shall be placed in six (6) inch layers and each layer shall be compacted to at least 95% of its Maximum Modified Dry Density (ASTM D-1557). This procedure will create a "cushion" atop the rock and reduce the potential for differential movement. For soft, rippable rock, this procedure will not be required.

Adjacent column footings greater than 20 feet apart may bear on dissimilar material (i.e. soil and rock). Any individual column footing must bear entirely on the same type bearing material (i.e. all soil or all rock). In addition, new footings constructed on sloping bedrock must be keyed into the bedrock surface.

If during the excavation for continuous foundations, the transition from soil to rock is gradual (i.e. from medium dense soil to dense weathered rock to very dense rock) over a distance of 20 feet or more, the "Special Construction Procedures" may not be required. This would have to be evaluated in the field on a case-by-case basis by the representative from Carlin-Simpson & Associates or a qualified geotechnical engineer at the time of construction.

Where the transition from rock to soil is abrupt within the excavation for continuous wall foundations, transition zones can be constructed by over-excavating the rock in steps and increasing the "soil cushion" thickness over a distance of 24 feet or more. To construct the transition zone, the bedrock is over-excavated in a series of steps, each step being six (6) inches in depth and at least eight (8) feet in length. The first step is six (6) inches deep, the second step is 12 inches deep, and the final step is 18 inches deep. The over-excavation is then backfilled with the soil cushion material described above.

Foundation Design Parameters

The new building foundations may be designed as shallow spread footings using net design bearing pressures as listed in Table 3 below. All of the exterior footings shall bear at the minimum depth listed below for protection from frost. Interior column footings may bear on the virgin soil, new structural fill, or bedrock just below the floor slabs provided the structure is heated during winter. The footings shall have minimum dimensions as listed below.

Table 3 – Building Foundation Design Parameters

Description	Value
Foundation Bearing Material	Virgin Soil, New Compacted Fill, Bedrock
Net Design Bearing Pressure	4,000 psf
Minimum Frost Depth	42 inches
Minimum Column Dimension	30 inches
Minimum Wall Dimension	18 inches

The excavations for the new foundations shall be performed under the full-time inspection of Carlin-Simpson & Associates. The on-site representative shall confirm that the foundation bearing material is capable of supporting the design bearing pressure.

Prior to the placement of formwork, reinforcement steel, and concrete, the bearing subgrade soil shall be cleaned of all loose soil and where soil is encountered at the subgrade elevation, it shall be compacted with several passes of a small vibratory drum trench compactor (i.e. Wacker Model RT560), a heavy vibratory plate tamper (i.e. Wacker BPU 3545A or equivalent), or "jumping jack" style tamper (i.e. Wacker Model BS 600). This must be performed under the observation of Carlin-Simpson & Associates. If instability is observed during the compaction of the bearing subgrade, the soft soil shall be removed and replaced with new compacted fill.

5.3 Floor Slabs on Grade

The floor slabs may be designed as a slab on grade bearing on densified virgin soil, on new engineer-approved structural fill or bedrock. Floor slabs design parameters are provided in Table 4 below. A layer of 3/4-inch crushed stone is recommended beneath the concrete slab for additional support and drainage. Provisions for sump pits and pumps are recommended for basement and walkout basement floor slabs that are bearing on bedrock.

Table 4 – Building Floor Slabs Design Parameters

Description	Value
Slabs Subgrade Material	Densified Virgin Soil/ New Structural Fill/ Bedrock
Modulus of Subgrade Reaction (k)	200 pci
Crushed Stone Cushion Thickness: *New Structural Fill / Virgin Soil* *Bedrock*	 6 inches 12 inches

New fill for the floor slabs shall consist of either suitable on-site soil or imported sand and gravel. Imported sand and gravel shall contain less than 20% material by weight passing a No. 200 sieve. The new fill shall be placed in layers not exceeding one (1) foot in loose thickness and each layer shall be compacted to at least 92% of its Maximum Modified Dry Density (ASTM D1557). Fill layers shall be compacted, tested, and approved before placing subsequent layers.

Floor Slab Underdrains

In the event that the finished floor elevation of building 14 is not revised, a permanent dewatering system consisting of sumps and pumps and a sub-slab underdrain system should be installed for the proposed basement area slab on grade. At least one (1) sump should be provided. The sump pump system must be capable of operating continuously 24 hours a day and be equipped with a power supply back up system in the event of a power failure. The sump pit and pump system should be designed to collect the water beneath the floor slabs and transfer it into the stormwater collection system.

The underdrain system shall consist of one or more main drain lines in each area with branching laterals at intervals of no more than 15 feet on centers. The drainpipes shall consist of four (4) inch diameter rigid perforated PVC or HDPE pipes placed at the bottom of a 12-inch drainage stone layer below the floor slabs. The drainpipe and crushed stone shall be separated from the surrounding soil using a geotextile filter fabric (Mirafi 140N or equivalent) to prevent soil from clogging the pipes. The edges of the filter fabric shall be folded on top of the stone fill. The subgrade should be graded ("pitched") towards the underdrain. Water collected in the underdrain system shall be piped to the sump pit.

In addition to the sump and underdrain system, the below-grade foundation walls must be waterproofed and a perimeter foundation drain, as described below, must be provided around the outside perimeter of the foundation walls. Water stops shall also be provided.

5.4 Subterranean Levels – Foundation Walls

We understand that all of the multi-family buildings will have a lower level (i.e. basement, walkout basement). The soil adjacent to these building walls will exert a horizontal pressure against the walls. This pressure is based on the soil density and Coefficient of Earth

Pressure at Rest (k_o), which is applicable to non-yielding building walls. Lower-level foundation wall design parameters are listed in Table 5 below.

Table 5 – Subterranean Level Foundation Wall Design Parameters

Soil Type	On-Site Soils
Moist Unit Weight (γ)	130 pcf
Friction Angle (ϕ, deg)	30
Cohesion (c, psf)	0
Coefficient of Earth Pressure at Rest (k_o)	0.5
Equivalent Fluid Pressure	65 psf/ft
Foundation Sliding Coefficient	0.45

Where lower-level foundation walls are required, we recommend that a footing drain be placed around the exterior of the new building to prevent water from accumulating against the foundation wall. This drain may consist of a minimum 4-inch diameter, rigid wall perforated PVC pipe surrounded by at least 12 inches of 3/4-inch clean crushed stone. The stone shall be wrapped in a geotextile fabric, such as Mirafi 140N or equivalent. The foundation drainpipe should be extended to daylight, if possible, or to the stormwater collection system. The outside face of the foundation wall, where it extends below grade, must be damp proofed or waterproofed.

Outside the building, the backfill placed adjacent to the foundation walls and above the footing drain shall consist of either clean crushed stone or an imported sand and gravel mixture containing less than 10% by weight passing a No. 200 sieve and placed in layers not exceeding 12 inches in thickness. This clean sand and gravel or crushed stone backfill shall extend a minimum of 12 inches horizontally from the back face of the foundation walls, and shall extend vertically up the wall face to 2 feet below the finished ground surface elevation. Where retained soils are not covered by concrete or pavement and are exposed to weather, the top 2 feet of backfill should consist of low permeable soil. This will help to minimize water infiltration behind the wall. Surface grades should be sloped away from the building to prevent water from accumulating adjacent to the wall.

Beyond this point, the foundation walls should be backfilled with suitable soil placed in layers up to 12 inches in thickness. The suitability of the on-site soil for reuse as compacted fill is discussed in a separate section below. The new fill should be compacted with a vibratory drum trench compactor (i.e. Wacker Model RT560), a heavy vibratory plate tamper (i.e. Wacker BPU 3545A or equivalent), or “jumping jack” style tamper (i.e. Wacker Model BS 600) to at least 92% of its Maximum Modified Dry Density (ASTM D1557). Heavy equipment should not be operated near the building walls as damage to the walls could occur.

5.5 Settlement

Settlement of individual footings, designed in accordance with recommendations presented in this report, is expected to be within tolerable limits for the proposed structure. For footings placed on natural soils or new compacted fill approved by Carlin-Simpson & Associates and constructed in accordance with the requirements outlined in this report, maximum total settlement is expected to be on the order of 1-inch or less. Maximum differential settlement between adjacent columns or load bearing walls is expected to be ½-inch.

The above settlement values are based on our engineering experience with similar soil conditions and the anticipated structural loading. These estimated settlements are intended to guide the structural engineer with their design. It is critical that Carlin-Simpson & Associates be retained to observe the foundation bearing surfaces and to confirm the recommended bearing pressures during construction.

5.6 Seismic Design Considerations

From site-specific test boring data, the Site Class was determined from New York State Building Code Section 1613.2.2. The site-specific data used to determine the Site Class typically includes soil test borings to determine Standard Penetration resistances (N-values). Based on estimated average N-values in the upper 100 feet of soil profile, the site can be classified as Site Class D – Stiff Soil Profile.

New structures should be designed to resist stress produced by lateral forces computed in accordance with Section 1613 of the New York State Building Code. The values in Table 6 shall be used for this project.

Table 6 – Seismic Design Values

Description	Value
Mapped Spectral Response Acceleration for Short Periods, [Fig 1613.2.1 (1)]	S_S=0.219g
Mapped Spectral Response Acceleration at 1-Second Period, [Fig 1613.2.1 (2)]	S_1=0.056g
Site Coefficient [Table 1613.2.3 (1)]	F_a= 1.60
Site Coefficient [Table 1613.2.3 (2)]	F_v= 2.40
Max Considered Earthquake Spectral Response for Short Periods [Eq 16-36]	S_{MS}=0.351g
Max Considered Earthquake Spectral Response at 1-Second Period [Eq 16-37]	S_{M1}=0.135g
Design Spectral Response Acceleration for Short Periods [Eq 16-38]	S_{DS}=0.234g
Design Spectral Response Acceleration for 1-Second Period [Eq 16-39]	S_{D1}=0.090g

6.0 SITE EVALUATION

Our recommendations for the proposed site development including several new stormwater management areas, a subsurface stormwater management area, retaining walls, new underground utilities, pavement for new driveways and parking areas, temporary construction excavations, and the suitability of the existing site soils for reuse as structural fill are provided below. A summary of the boring observations for the site are provided in Table 7 below.

Table 7 – Summary of Boring Observations – Site Borings

Boring No.	Existing Ground Surface Elevation	Depth to Groundwater (Elevation)	Depth to Seasonal High Groundwater (Elevation)	Depth to Bottom of Existing Fill (Elevation)	Depth to Bedrock (Elevation)
B-1	+213.0	12'0" (+201.0)	NE	NE	NE to 22'0"
B-7	+269.0	NEW to 15'4"	NE	NE	CWR @ 6'0" (+263.0) AR @ 15'4" (+253.7)
B-20	+276.0	NWR	NE	NE	C @ 15'0" (+261.0)
B-25	+219.0	14'9" (+204.3)	NE	NE	NE to 22'0"
B-101	+200.0	5'0" (+195.0)	NE	5'6" (+194.5)	NE to 9'0"
B-102	+202.0	NE to 9'0"	NE	NE	NE to 9'0"
B-103	+206.0	8'6" (+197.5)	NE	1'0" (+205.0)	NE to 8'6"
B-104	+208.0	9'6" (+198.5)	NE	1'6" (+206.5)	NE to 9'6"
B-105	+217.0	17'6" (+199.5)	NE	NE	NE to 24'0"
B-106	+218.0	NE to 9'0"	NE	NE	NE to 9'0"
B-107	+219.5	NE to 12'0"	NE	NE	NE to 12'0"
B-108	+211.5	10'0" (+201.5)	NE	NE	NE to 14'0"
B-109	+210.0	8'0" (+202.0)	NE	0'9" (+209.2)	NE to 14'0"
B-110	+221.0	NE to 12'6"	NE	NE	NE to 12'6"
B-111	+216.0	NE to 12'0"	NE	NE	NE to 12'0"
B-112	+223.0	NE to 15'0"	NE	NE	NE to 15'0"
B-113	+227.0	NE to 8'6"	NE	NE	CWR @ 7'6" (+219.5) AR @ 8'6" (+218.5)
B-114	+226.0	NE to 2'0"	NE	NE	AR @ 2'0" (+224.0)
B-115	+243.0	NE to 12'0"	NE	NE	NE to 12'0"
B-116	+239.0	NE to 8'7"	NE	NE	NE to 8'7"
B-117	+303.0	NE to 6'0"	NE	NE	AR @ 6'0" (+297.0)
B-118	+298.0	NE to 5'6"	NE	NE	AR @ 5'6" (+292.5)
B-119	+334.0	NE to 6'0"	NE	NE	AR @ 6'0" (+328.0)
B-120	+335.0	NE to 15'3"	NE	NE	NE to 15'3"
B-121	+305.0	5'0" (+300.0)	2'0" (+303.0)	NE	NE to 5'3"
B-122	+309.0	4'0" (+305.0)	2'0" (+307.0)	NE	AR @ 5'6" (+303.5)
B-123	+206.5	7'6" (+199.0)	NE	1'0" (+205.5)	NE to 9'0"

NE - Not Encountered
CWR - Completely Weathered Rock
AR - Auger Refusal on Probable Bedrock

6.1 Stormwater Management Systems

It is our understanding that multiple stormwater management areas and a subsurface stormwater management area will be constructed at the site. The details and invert elevations of the stormwater management systems have not been finalized yet. The preliminary invert elevations are provided in Table 8 below.

During this study, twenty-three (23) borings were performed for the proposed stormwater management areas. The locations are shown on the attached Boring Location Plan. The test locations were provided by the project site engineer. The existing fill and groundwater observations at each stormwater boring location are summarized in Table 7 above.

Nineteen (19) borehole infiltration tests were performed in November 2020. The field infiltration rates and calculated permeability rates at the test locations are summarized in Table 8 below.

Table 8 – Borehole Infiltration Test Results

Boring No.	Existing Ground Surface Elevation	Test Depth (Elevation)	Proposed Bottom of System Elevation	Field Infiltration Rate	Calculated Permeability Coefficient, K
B-101	+200.0	No Infiltration Test			
B-102	+202.0	4’0” (+198.0)	+200.0	0.125 in/hr	0.0018 in/hr
B-103	+206.0	5’6” (+200.5)	+200.0	0.25 in/hr	0.015 in/hr
B-104	+208.0	6’6” (+201.5)	+200.0	>20 in/hr	>2.7 in/hr
B-105	+217.0	14’6” (+202.5)	+200.0	>20 in/hr	>2.7 in/hr
B-106	+218.0	6’0” (+212.0)	+214.0	>20 in/hr	>2.7 in/hr
B-107	+219.5	7’6” (+212.0)	+214.0	>20 in/hr	>2.7 in/hr
B-108	+211.5	7’0” (+204.5)	+202.0	>20 in/hr	>2.7 in/hr
B-109	+210.0	5’0” (+205.0)	+202.0	15.0 in/hr	1.47 in/hr
B-110	+221.0	7’0” (+214.0)	+216.0	>20 in/hr	>2.7 in/hr
B-111	+216.0	8’0” (+208.0)	+210.0	4.0 in/hr	0.26 in/hr
B-112	+223.0	11’0” (+212.0)	+214.0	9.7 in/hr	0.78 in/hr
B-113	+227.0	4’0” (+223.0)	+214.0	4.5 in/hr	0.31 in/hr
B-114	+226.0	No Infiltration Test			
B-115	+243.0	7’0” (+236.0)	+238.0	17.0 in/hr	1.85 in/hr
B-116	+239.0	3’0” (+236.0)	+238.0	5 in/hr	0.35 in/hr
B-117	+303.0	3’0” (+300.0)	+294.0	3.5 in/hr	0.23 in/hr
B-118	+298.0	2’6” (+295.5)	+294.0	>20 in/hr	>2.7 in/hr
B-119	+334.0	3’0” (+331.0)	+324.0	0.25 in/hr	0.015 in/hr
B-120	+335.0	13’0” (+322.0)	+324.0	18.0 in/hr	2.09 in/hr
B-121	+305.0	No Infiltration Test			
B-122	+309.0	No Infiltration Test			
B-123	+206.5	4’6” (+202.0)	+200	0.125 in/hr	0.0018 in/hr

The calculated permeability coefficient (K) was determined using the equation provided below.

$$K_m = 1.142R_t \times \frac{\left[Ln\left(\frac{h_1}{h_2}\right)\right]}{(t_2 - t_1)}$$

Stormwater management areas should be a minimum of two (2) feet above confining layers, seasonal high groundwater, or the existing groundwater table. Should stormwater management areas be planned in other portions of the site, they should be evaluated on a case-by-case basis. The stormwater management systems must be designed in accordance with the applicable New York State Department of Environmental Conservation (NYSDEC) regulations and the New York State Stormwater Management Design Manual (January 2015). The testing requirements are outlined in Appendix D of the manual.

6.2 New Site Retaining Walls

We understand that many site retaining walls will be required to achieve the desired site grades for the multi-family proposed buildings as well as along some of the roadway areas. Based on the existing and proposed conditions, the retaining walls may be designed a mechanically stabilized earth (MSE) wall. The MSE wall consists of segmental concrete block units with geogrid reinforcement and is typically an economical choice for retaining wall construction. In some cases on this site, the MSE wall will require additional excavation beyond the wall area in order to install the geogrid reinforcement.

Preparation of Retaining Wall Areas

In order to prepare the retaining wall areas for construction, all surface materials including asphalt, concrete, topsoil, and surface vegetation must be completely removed from the new retaining wall areas. The removal of the surface materials shall extend at least 5 feet beyond the proposed construction limits, where practical.

In the event that existing fill material is present below the wall subgrade elevation, this material must be completely removed from the limits of new wall construction. The removal of the unsuitable material shall extend horizontally a minimum distance of 5 feet beyond the front face of the new wall or extend horizontally a minimum distance equivalent to the vertical depth of the required excavation below the proposed wall base or foundation bearing elevation, whichever is greater. This is required to ensure that all unsuitable material has been removed from beneath the wall base or foundation zone of influence, which shall be defined by an imaginary plane projecting downward and away from the front edge of the wall base or foundation on a one horizontal to one vertical (1H:1V) projection.

The exposed subgrade at the bottom of the excavation shall then be compacted by several passes with a vibratory drum trench compactor (i.e. Wacker Model RT560) or a vibratory drum roller (i.e. Wacker Model RD-25 Roller). The densification of the subgrade shall be inspected by a representative from Carlin-Simpson & Associates. In the event that soft or unsuitable soil is identified during the densification, the unsuitable material shall be removed, as directed by the Carlin-Simpson & Associates representative, and replaced with new compacted fill.

Once the subgrade has been approved by Carlin-Simpson & Associates, the excavation can be backfilled to the planned subgrade elevation with new structural fill. New compacted fill shall consist of either suitable on-site soil or imported sand and gravel. Imported fill shall contain less than 20% by weight passing the No. 200 sieve. The fill shall be placed in 12 inch thick loose layers and compacted to at least 95% of its Maximum Modified Dry Density (ASTM D1557). Each layer must be compacted, tested, and approved before placing subsequent layers. The footings or base of the walls can be designed using a net design bearing pressure as outlined in Table 10 below.

Drainage and Wall Backfill

Drains must be provided behind the retaining walls to prevent the buildup of hydrostatic pressure against the walls. The drain should consist of a 4-inch perforated pipe surrounded by 12 inches of clean 3/4-inch crushed stone. The pipe and crushed stone shall be wrapped in a geotextile filter fabric (Mirafi 140N or equivalent). The drain pipe should be installed behind the base or foundation of the retaining walls to collect the water behind the walls and be connected into the site stormwater collection system or extended to daylight beyond the wall areas.

Behind the walls, the backfill placed adjacent to the walls and above the footing drain shall consist of freely draining aggregate meeting the requirements of AASHTO No. 57 or 67 Aggregate. This drainage fill shall extend a horizontally a minimum of 12 inches from the back of the walls and shall extend vertically to at least 2 feet below final grade behind the walls. The crushed stone shall be separated from the surrounding soil using a geotextile filter fabric (Mirafi 140N or equivalent).

Fill material used to construct the reinforced soil zone of MSE walls shall consist of one of the following soil types according to their USCS designations (GP, GW, SW, SP, SM). The fill material must also meet the gradation in Table 9 below. The material passing the No. 200 sieve must be either non-plastic or of low plasticity. The maximum particle size shall be limited to 1.5 inches. Materials outside of these criteria, including on-site soils, require approval of the Wall Design Engineer and Carlin-Simpson & Associates.

Table 9 – Gradation Requirements for MSE Wall Reinforcement Zone

Sieve Size	Percent Passing
1.5 inch	100
3/4 inch	75-100
No. 4	20-90
No. 40	0-60
No. 200	0-30

The contractor shall be responsible for providing soil samples and completing all necessary laboratory testing, as required by Carlin-Simpson & Associates, to determine soil design parameters for any imported fill used in the construction of the walls. The walls design engineer must approve the fill to be utilized in the reinforced zone.

Backfill placed behind the retaining walls shall be placed in 12-inch loose layers. Each layer shall be compacted using a hand guided mechanical tamper to 92% of its Maximum Modified Dry Density (ASTM D1557). Excessive compaction adjacent to the retaining walls must be avoided. Layers shall be tested and approved before placing subsequent layers. Large compaction equipment must not be used within 10 feet of the new walls to prevent potential damage to the walls.

Design Considerations

The retaining wall bases shall bear on virgin soil, weathered bedrock, or new compacted fill. For segmental block walls (MSE), the wall bases must be adequately embedded for internal and global stability. In addition, the soil adjacent to the site retaining walls will exert a horizontal pressure against the walls. This pressure is based on the soil density and the Coefficient of Active Earth Pressure (k_a). The values listed in Table 10 below shall be used for design of the new retaining walls.

Table 10 – Retaining Wall Design Parameters

Description	Value
Foundation Bearing Material	Virgin Soil or New Compacted Fill
Net Design Bearing Pressure	4,000 psf
Backfill Moist Unit Weight	130 pcf
Backfill Friction Angle	30 degrees
Cohesion	0 psf
Active Earth Pressure Coefficient (k_a)	0.33
Equivalent Fluid Pressure (EFP)	42.9 pcf
Friction Coefficient	0.45
Minimum Roadway Surcharge	250 psf

Where applicable, additional surcharge loads, such as driveways, parking areas, structures, construction equipment, temporary materials storage, etc. must also be incorporated into the walls design.

The Wall Design Engineer shall prepare a complete wall design (i.e. drawings, specifications, and calculations), which shall be designed and sealed by a Professional Engineer registered in the State of New York and submitted to Carlin-Simpson & Associates for review. MSE retaining walls shall be designed in accordance with the recommendations of the NCMA Design Manual for Segmental Retaining Walls (Current Edition) and in accordance with AASHTO standards. Carlin-Simpson & Associates can prepare an MSE wall design as an additional service upon request.

The design shall consider the internal stability of the reinforced soil mass and shall be in completed accordance with acceptable engineering practice. In addition, external stability, including sliding, overturning, and bearing, as well as global stability shall be evaluated in accordance with acceptable engineering practice.

The wall design engineer shall be responsible for determining the required geogrid reinforcement lengths and elevations based on his stability analysis (including global stability) and the properties of the geogrid reinforcement used in the design.

6.3 Soil Slopes

Based on the provided site plan, we understand that soil slopes will be required in areas. Based on the preliminary grading plan, the slopes on the site will range from approximately 10 to 44 feet in height. The slopes will consist of a combination of soil and completely weathered rock. Cuts and fills are expected to construct these slopes.

Slopes constructed in soil or completely weathered rock on a 2.5H:1.0V angle (or flatter) as indicated on the preliminary grading plan are acceptable for the project site, provided that they are properly constructed, the construction is monitored by a qualified geotechnical engineer (Carlin-Simpson & Associates), surface water and groundwater infiltration is directed away from the top of slope, groundwater seepage exiting the slope is properly mitigated, and appropriate vegetation is established on the completed slope.

New soil slope embankments shall be constructed from the bottom up. End dumping from the top of the slope shall not be permitted. Each fill layer must be benched into the existing embankment for slope stability. In order to prepare the new slope area for construction, the existing surface materials (i.e. topsoil and surface vegetation) shall be completely removed from the planned slopes areas receiving new fill. The removal of the topsoil and vegetation shall extend at least 5 feet beyond the construction limits of the new slope, including in front of the toe of the slope and within the areas to be filled.

After the topsoil, surface vegetation, and unsuitable materials have been removed and prior to the placement of new fill, the exposed subgrade shall be proofrolled by several overlapping passes of a large vibratory drum roller (i.e. Dynapac CA 250 or equivalent). Where the existing subgrade is on a slope, the area shall be leveled to permit proper compaction of the subgrade prior to filling. The proofrolling is required to densify the underlying soils. If any soft or otherwise unsuitable soils are noted, the unsuitable material shall be removed and replaced with new compacted fill. Carlin-Simpson & Associates shall be responsible for determining what material, if any, is to be removed and will direct the contractor during this operation.

The subgrade receiving new fill must be firm and non-yielding prior to the placement of the next fill layer. Fill placed on existing slopes must be keyed or benched into the existing slope for slope stability. For existing slopes 4H:1V or flatter, the existing ground surface should be deeply scarified. For existing slopes steeper than 4H:1V, the ground surface should be benched. Benches into the existing slope should be a minimum width of 8 feet (typical small dozer blade width). The depth of the benches will be dictated by the existing embankment conditions.

The new fill used to construct the slopes shall consist of either engineer-approved on-site soil or imported sand and gravel. Imported sand and gravel shall contain less than 20% by weight passing a No. 200 sieve. The fill shall be placed in layers up to 12 inches in loose thickness and each layer shall be compacted to at least 95% of its Maximum Modified Dry Density (ASTM D1557). Fill layers shall be compacted, tested, and approved before placing subsequent layers.

Erosion control blankets or permanent turf reinforcement mats (TRM) should be used on all slopes steeper than 3H:1V to protect the slope from surface erosion. Vegetation should be established as soon as possible after construction to help stabilize the slope and to minimize surface erosion. A landscape architect should be consulted for recommendations regarding the best type of vegetation for the slopes. The top of slope must be graded to redirect surface water away from the slope and to prevent sheet flow directly over the top of the slope. This can be achieved by constructing swales at the top of slope to redirect the water. Near roadways, curbs and catch basins should be used.

6.4 Utilities

New utilities may bear in the densified existing fill, virgin site soils, new compacted fill and weathered rock. The bottom of all trenches should be excavated clean and shaped so a hard bottom is provided for the pipe support. If any soft or unsuitable soil conditions are encountered during construction, the unsuitable materials must be removed and replaced with new compacted fill.

Trench hammering or blasting may be required to install the new utilities in portions of the site where weathered rock is encountered above the planned utility invert elevation. Where rock is encountered in the utility excavations, it must be removed to at least six (6) inches below planned pipe invert. The over-excavated six (6) inches shall then be filled with new sandy fill and compacted to at least 92% of its Maximum Modified Dry Density (ASTM D-1557) to act as a cushion on the rock.

For areas where existing fill is encountered within the utility excavations, the subgrade at bottom of the utility excavation shall be compacted in place with a vibratory drum trench compactor or "jumping jack" style tamper. Carlin-Simpson & Associates must evaluate these areas for the presence of soft or unsuitable material within the existing fill matrix. If instability is observed, portions of this fill may have to be removed and replaced with new compacted fill. Carlin-Simpson & Associates will determine this during construction.

In the event that the trench bottom becomes soft due to the inflow of surface or trapped water, the soft soil shall be removed and the excavation filled with a minimum of six (6) inches of 3/4-inch clean crushed stone to provide a firm base for support of the pipe. Sump pits and pumps should be adequate to keep the excavations dry.

After the utility is installed, the trench must be backfilled with compacted fill. The fill shall consist of suitable on-site soil or imported sand and gravel. Imported fill shall contain less than 20% by weight passing a No. 200 sieve. Large rock fragments and boulders must not be placed directly against the pipe. Controlled compacted fill shall be placed in one (1) foot loose layers and each layer shall be compacted to at least 92% of its Maximum Modified Dry Density (ASTM D-1557). The backfill must be free of topsoil, debris, and large boulders or rock fragments.

6.5 Pavement

We understand that the proposed construction will also include new paved parking areas and driveways. Based on the provided site plan, we expect that cuts up to approximately 30 feet and fills up to approximately 20 feet will be required to achieve the planned subgrade elevations in the new pavement areas. The densified existing fill, virgin soil, weathered bedrock, and new compacted fill may be used to support the pavement.

To prepare the new pavement areas, the existing surface materials (i.e. topsoil, vegetation, etc.) must be removed from the planned pavement areas. In the proposed pavement areas, the existing structures and debris resulting from the demolition of these structures must be completely removed from the new pavement area, extending at least five (5) feet beyond the new paving limits, where practical. After all debris has been removed, the exposed subgrade soil that is either at or below the planned subgrade elevation shall be proofrolled with a large vibratory drum roller (i.e. Dynapac 250 or equivalent) to densify the underlying soils. The on-site representative from Carlin-Simpson & Associates shall witness the proofrolling operation. If any excessive movement is noted during the proofrolling, the soft or unsuitable soil shall be removed and replaced with new compacted fill.

Areas where existing fill is encountered shall be compacted in place. Carlin-Simpson & Associates must evaluate these areas for the presence of soft or unsuitable material within the existing fill matrix. Portions of this fill may have to be removed and replaced with new compacted fill. Carlin-Simpson & Associates will determine this during construction.

Where new fill is required to achieve final grades, it shall consist of either suitable on-site soil or imported sand and gravel. Imported sand and gravel shall contain less than 20% by weight passing a No. 200 sieve. New fill shall be placed in layers not exceeding one (1) foot in loose thickness and each layer shall be compacted to at least 92% of its Maximum Modified Dry Density (ASTM D-1557).

Asphalt Pavement Section

After the planned subgrade has been proofrolled and new compacted fill has been placed as required, the new pavement subbase may be placed on the existing site soils, bedrock, and new compacted fill. A minimum of six (6) inches of dense graded aggregate (DGA) is recommended for the subbase layer for drainage and additional pavement support. We recommend that the following pavement section be used for the parking lots and driveways. This pavement section is subject to local government approval.

2”	Asphalt Top Course	NYSDOT, Type 6F
3”	Asphalt Base Course	NYSDOT, Type 3
6”	Stone Subbase (DGA)	NYSDOT, Type 1
	Approved Compacted Subgrade (Minimum CBR = 10)	

Based on the boring data, we anticipate that the densified existing site soils, weathered bedrock, and new compacted fill will provide a CBR value that is equal to or greater than 10, which can adequately support the above pavement sections.

Rigid (Concrete) Pavement

We expect that the proposed construction may also include rigid concrete pavement in portions of the site. The new concrete pavement should be designed for light vehicles (autos, pickup trucks, vans) and occasional delivery or trash pick-up truck traffic. The rigid concrete pavement section design is based on a 20-year design life and the anticipated traffic data. This pavement section is subject to local government approval.

5.5”	Concrete Section	4,000 psi
6”	Gravel Subbase Course	NYSDOT Type 4
	Approved Compacted Subgrade (Minimum CBR = 10)	

The rigid concrete pavement should be reinforced with welded wire fabric or reinforcing steel bars for crack control. Contraction joints should also be provided with a maximum spacing of 10 feet. The project structural engineer or the site engineer shall determine the type, size, and spacing of the reinforcement based on the anticipated loading.

6.6 Temporary Construction Excavations and Excavation Protection

Temporary construction excavations should be conducted in accordance with the most recent OSHA guidelines or applicable federal, state or local codes. A qualified person should evaluate the excavations at the time of construction to determine the appropriate soil type and allowable slope configuration. Based on the boring data, we believe the site soils would have the following classifications as defined by the OSHA guidelines.

Soil Type	Possible Classification	Maximum Slope or Bench
Existing Fill	“C”	1½H:1V
Virgin Soil	“B” or “C”	1H:1V or 1½H:1V
Bedrock	“A”	3/4H:1V

Temporary support (i.e. trench boxes, sheeting and shoring, etc.) should be used for any excavation that cannot be sloped or benched in accordance with the applicable regulations, where necessary to protect adjacent utilities and structures, or where saturated soils or water seepage is encountered within the excavation.

A New York State licensed professional engineer must design all temporary and permanent support systems. The contractor will select the shoring type and submit design calculations for the proposed shoring method to Carlin-Simpson & Associates for review. The soil adjacent to the temporary support system will exert a horizontal pressure against the system. This pressure is based on the soil unit weight, coefficient of active earth pressure, and depth of the excavation. Support of Excavation design parameters are listed in Table 11 below.

Table 11 – Temporary Sheeting and Shoring Design Parameters

Description	Value
Moist Unit Weight (pcf)	130
Friction Angle (ϕ, deg)	30
Cohesion (c, psf)	0
Active Earth Pressure Coefficient (k_a)[1]	0.33
Equivalent Fluid Pressure (pcf)	42.9
Passive Earth Pressure Coefficient (k_p)[1]	3.0

6.7 Suitability of the In-Situ Soils for Use as Compacted Fill

The suitability of each soil stratum for use as compacted fill is discussed below.

Stratum 2
Existing Fill

The existing fill generally consists of loose to medium dense brown, gray coarse to fine SAND, little (to some) Silt, little (to some) coarse to fine Gravel. Debris (i.e. brick) was noted in borings B-21 and B-23. The existing fill is generally suitable for reuse, as long as it remains relatively dry for optimum compaction and all the debris is removed prior to reuse as compacted fill.

Stratum 3
Silty Gravelly Sand or Sandy Gravel

The Silty Gravelly Sand or Sandy Gravel consists of medium dense brown, gray coarse to fine SAND, little (to some) Silt, little (to and) and coarse to fine Gravel or gray, brown coarse to fine GRAVEL some, coarse to fine Sand, trace Silt. This stratum is generally suitable for reuse as compacted fill, as long as it remains relatively dry for optimum compaction.

Stratum 4
Sandy Silt

The Sandy Silt consists of medium stiff brown, gray SILT or Clayey SILT some, coarse to fine Sand, little medium to fine Gravel. The stratum will be very moisture sensitive and difficult to reuse as compacted fill.

Stratum 5/6
Weathered Shale Bedrock or Shale Bedrock

Excavated rock or completely weathered rock may be used as fill material provided that the material is well graded and has been approved prior to use by Carlin-Simpson & Associates.

All rock fill must be well blended with smaller rock fragments and/or soil. The maximum particle size for rock placed as fill in the building areas shall be three (3) inches in diameter. In other areas of the site, the maximum particle size shall be six (6) inches in diameter. Most of the excavated rock will be too large for use as compacted fill in structural areas. The excavated rock must therefore be processed through a crusher to provide suitable fill material. Rock fill should not be used where it will interfere with the installation of foundations, floor slabs or utilities. Also, it shall not be used as backfill directly against concrete walls or utilities.

The boring data indicates that the on-site soils contain a varying percentage of silt (10% to >50%). The higher silt content soils will be moisture sensitive. If the soil becomes too wet, it will be difficult to achieve adequate compaction. In addition, the site soils that extend below the groundwater table are completely saturated and therefore, unsuitable for reuse.

Proper moisture conditioning of the soil will be required. New compacted fill should be within 2% (+/-) of its optimum moisture content at the time of placement. In the event that the on-site material is too wet at the time of placement and cannot be adequately compacted, the soil should be aerated and allowed to dry or the material removed and a drier cleaner fill material used. In the event that the on-site material is too dry at the time of placement and cannot be adequately compacted, water may be needed to increase the soil moisture content for proper compaction.

The in-situ soils which exist throughout the site may become soft and weave if exposed to excessive moisture and construction traffic. The instability will occur quickly when exposed to these elements and it will be difficult to stabilize the subgrade. We recommend that adequate site drainage be implemented early in the construction schedule and if the subgrade becomes wet, the contractor should limit construction activity until the soil has dried.

The minimum compaction requirements for the various areas of the site are summarized in Table 12 below.

Table 12 – Minimum Compaction Requirements

Area	**Maximum Modified Dry Density (ASTM D-1557)**
Below Foundations	95%
Below Floor Slabs	92%
Retaining Wall Subgrade	95%
Retaining Wall Backfill	92%
Pavement Areas	92%
Exterior Slabs and Sidewalks	92%
Utility Trenches	92%
Landscape Areas	90%

7.0 GENERAL

The findings, conclusions and recommendations presented in this report represent our professional opinions concerning subsurface conditions at the site. The opinions presented are relative to the dates of our site work and should not be relied on to represent conditions at later dates or at locations not explored. The opinions included herein are based on information provided to us, the data obtained at specific locations during the study and our past experience. If additional information becomes available that might impact our geotechnical opinions, it will be necessary for Carlin-Simpson & Associates to review the information, reassess the potential concerns, and re-evaluate our conclusions and recommendations.

Regardless of the thoroughness of a geotechnical exploration, there is the possibility that conditions between borings and test pits will differ from those encountered at specific boring or test pit locations, that conditions are not as anticipated by the designers and/or the contractors, or that either natural events or the construction process have altered the subsurface conditions. These variations are an inherent risk associated with subsurface conditions in this region and the approximate methods used to obtain the data. These variations may not be apparent until construction.

The professional opinions presented in this geotechnical report are not final. Field observations and foundation installation monitoring by the geotechnical engineer, as well as soil density testing and other quality assurance functions associated with site earthwork and foundation construction, are an extension of this report. Therefore, Carlin-Simpson & Associates should be retained by the Owner to observe all earthwork and foundation construction, to document that the conditions anticipated in this study actually exist, and to finalize or amend our conclusions and recommendations Carlin-Simpson & Associates is not responsible or liable for the conclusions and recommendations presented in this report if Carlin-Simpson & Associates does not perform the observation and testing services.

Therefore, in order to preserve continuity in this project, the Owner shall retain the services of Carlin-Simpson & Associates to provide full time geotechnical related monitoring and testing during construction. At a minimum, this shall include the observation and testing of the following: 1) the removal of existing fill and unsuitable soil, where required; 2) the proofrolling of the subgrade soil prior to the placement of new compacted fill; 3) the placement and compaction of controlled fill; 4) the excavation for the new foundations; 5) the construction of retaining walls and soil slopes; and 6) the preparation of the subgrade for the floor slabs and pavement areas.

This report has been prepared in accordance with generally accepted geotechnical engineering practice. No other warranty is expressed or implied. The evaluations and recommendations presented in this report are based on the available project information, as well as on the results of the exploration. Carlin-Simpson & Associates should be given the opportunity to review the final drawings and site plans for this project to determine if changes to the recommendations outlined in this report are needed. Should the nature of the project change, these recommendations should be re-evaluated.

This report is provided for the exclusive use of Farrell Building Company and the project specific design team and may not be used or relied upon in connection with other projects or by other third parties. Carlin-Simpson & Associates disclaims liability for any such third-party use or reliance without express written permission. Use of this report or the findings, conclusions or recommendations by others will be at the sole risk of the user. Carlin-Simpson & Associates is not responsible or liable for the interpretation by others of the data in this report, nor their conclusions, recommendations or opinions.

If the conditions encountered during construction vary significantly from those stated in this report, this office should be notified immediately so that additional recommendations can be made.

Thank you for allowing us to assist you with this project. Should you have any questions or comments, please contact this office.

Very truly yours,

CARLIN-SIMPSON & ASSOCIATES

Catherine K. Simpson

CATHERINE K. SIMPSON, E.I.T.
Project Manager

ROBERT B. SIMPSON, P.E.

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-101

Project:	Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc.	ELEVATION:	+200.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	24/Nov/20
24/Nov/20	1:30	5'0"	HSA	DIA.	3 1/4"	1 3/8"			FINISH DATE:	24/Nov/20
				WGHT		140#			DRILLER:	Scott
				FALL		30"			INSPECTOR:	Mike W

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			1		**Topsoil** 0'6"	
1		S-1	1/12"		FILL (Gr cf S, l (+) $, l mf G)	Rec = 0
						moist
2			1			Sample auger cutting
			1			
3		S-2	1		FILL (same)	Rec = 0
			2		**FILL (Gray coarse to fine SAND,**	moist
4			2		**little (+) Silt, little medium to fine Gravel)**	
5						
			1		5'6"	
6		S-3	3		Gr, br $ s (-), cf S, l cf G	Rec = 12"
			5		**Gray, brown SILT some (+), coarse to fine**	wet
7			10		**Sand, little coarse to fine Gravel** 7'0"	
			14			
8		S-4	13		Br cf S, l $, s (+) mf G	Rec = 12"
			13		**Brown coarse to fine SAND, little Silt,**	wet
9			12		**some (+) medium to fine Gravel** 9'0"	
					End of Boring @ 9'0"	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-102

Project:	Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc.	ELEVATION:	+202.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	24/Nov/20
24/Nov/20	1145	NWE	HSA	DIA.	3 1/4"	1 3/8"			FINISH DATE:	24/Nov/20
24/Nov/20	1245	NWE	HSA	WGHT		140#			DRILLER:	Scott
				FALL		30"			INSPECTOR:	Mike W

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			4		**Topsoil** 0'6"	
1		**S-1**	5		Br, gr cf S, s $, s cf G	Rec = 18"
			6			moist
2			8			
			4			
3		**S-2**	4		same	Rec = 0
			5			moist
4			6		**Brown, gray coarse to fine Sand,**	
					some (+) Silt, some coarse to fine Gravel	
5						
			7			
6		**S-3**	5		same, s (+) cf G	Rec = 12"
			4			moist
7			5			
			3			
8		**S-4**	5		same, a (+) $	Rec = 12"
			12			moist to wet
9			14		9'0	
					End of Boring @ 9'0"	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-103

Project:	Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc.	ELEVATION:	+206.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	24/Nov/20
24/Nov/20	1030	9'6"	HSA	DIA.	3 1/4"	1 3/8"			FINISH DATE:	24/Nov/20
24/Nov/20	1050	8'6"	HSA	WGHT		140#			DRILLER:	Scott
				FALL		30"			INSPECTOR:	Mike W

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			2		**Topsoil** 0'6"	
1		S-1	9		**FILL (Brown, gray coarse to fine SAND,** 1'0"	Rec = 18"
			20		**little Silt, little ( ) medium to fine Gravel**	moist
2			29		Br, gr cf S, l (+) $, s (-) mf G	
			32			
3		S-2	25/2"		same	Rec = 6"
					Brown, gray coarse to fine Sand,	moist
4					**some Silt, some (-) medium to fine**	Boulder 2'6" to 3'0"
					Gravel	
5						
			14			
6		S-3	17		same, s $	Rec = 6"
			10			moist
7			10			
			10			
8		S-4	6		same, br, s (+) $	Rec = 10"
			4			moist to wet
9			14			Boulder 9'0" to 10'0"
10						
			10			
11		S-5	10		same, br, s (+) $	Rec = 6"
			12			wet
12			11			
					End of Boring @ 12'0"	
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-104

Project:	**Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY**								**SHEET NO.:**	1 of 1
Client:	**Farrell Building Company**								**JOB NUMBER:**	18-130
Drilling Contractor:	**General Borings Inc.**								**ELEVATION:**	+208.0
GROUNDWATER					**CASING**	**SAMPLE**	**CORE**	**TUBE**	**DATUM:**	Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**	**HSA**	**SS**			**START DATE:**	28/Oct/20
28/Oct/20	**1150**	**10'0"**	**HSA**	**DIA.**	**3 1/4"**	**1 3/8"**			**FINISH DATE:**	28/Oct/20
28/Oct/20	**1240**	**9'6"**	**HSA**	**WGHT**		**140#**			**DRILLER:**	John
				FALL		**30"**			**INSPECTOR:**	Mike W

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			3		**FILL (Dark brown, coarse to fine SAND,**	
1		**S-1**	13		**some (+) Silt, little (+) medium to fine**	Rec = 8"
			9		**Gravel, with glass, topsoil)** 1'6"	moist
2			10			
			13			
3		**S-2**	15		Gr, br cf S, l (-) $, a (+) cf G	Rec = 12"
			18			moist
4			30			
5						
		S-3	50/3"		same	Rec = 2"
6						moist
					Gray, brown coarse to fine Sand,	Boulder 5'0" to 6'0"
7					**little (-) Silt, and coarse to fine Gravel**	
						Boulder 7'0" to 8'0"
8						
9						
			8			
10		**S-4**	7		same, s mf G	Rec = 12"
			10			moist to wet
11			9			
			11			
12		**S-5**	14		same	Rec = 12"
			14			wet
13			12		13'0"	
					End of Boring @ 13'0"	
14						
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN - SIMPSON & ASSOCIATES Sayreville, N.J.	TEST BORING LOG	BORING NUMBER B-105

Project:	**Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY**	**SHEET NO.:**	1 of 2
Client:	**Farrell Building Company**	**JOB NUMBER:**	18-130
Drilling Contractor:	**General Borings Inc.**	**ELEVATION:**	+217.0

GROUNDWATER					**CASING**	**SAMPLE**	**CORE**	**TUBE**	**DATUM:**	Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**	**HSA**	**SS**			**START DATE:**	28/Oct/20
28/Oct/20	**945**	**18'6"**	**HSA**	**DIA.**	**3 1/4"**	**1 3/8"**			**FINISH DATE:**	28/Oct/20
28/Oct/20	**1000**	**17'6"**	**HSA**	**WGHT**		**140#**			**DRILLER:**	John
28/Oct/20	**1005**	**17'6"**	**HSA**	**FALL**		**30"**			**INSPECTOR:**	Mike W

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			8		**Topsoil** 0'4"	
1		S-1	14		Gr, br cf S, l $, a (-) cf G	Rec = 6"
			17			moist
2			14			
			20			
3		S-2	17		same, l (+) $, s mf G	Rec =
			15			
4			16			
5						
			4			
6		S-3	5		same, gr l (+) $, s (-) mf G	Rec = 6"
			14			moist
7			19			
			25			
8		S-4	27		same, s (-) $, s (+) mf G	Rec = 12"
			25			moist
9			25		**Gray, brown coarse to fine Sand, little (+) Silt, and (-) coarse to fine Gravel**	
10						
			8			
11		S-5	20		same	Rec = 12"
			17			moist
12			19			
13						
14						
15						
			17			
16		S-6	16		same, a cf G	Rec = 12"
			15			moist
17			18			
18						
19					19'0"	
20					**Gray, brown coarse to fine SAND, trace Silt, trace (+) fine Gravel**	
			4			
21		S-7	5		Gr, br cf S, t $, t (+) f G	Rec = 20"
			4			wet
22			5			

CARLIN - SIMPSON & ASSOCIATES Sayreville, N.J.	TEST BORING LOG	BORING NUMBER B-105
Project: Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY		SHEET NO.: 2 of 2
Client: Farrell Building Company		JOB NUMBER: 18-130

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			4			
23		S-8	5		Gr, br cf S, t $, t (+) f G	Rec = 20"
			7		**Gray, brown coarse to fine SAND,**	wet
24			11		**trace Silt, trace (+) fine Gravel** 24'0"	
					End of Boring @ 24'0"	
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-106

Project:	Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc.	ELEVATION:	+218.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	27/Oct/20
No Groundwater Encountered				DIA.	3 1/4"	1 3/8"			FINISH DATE:	27/Oct/20
				WGHT		140#			DRILLER:	John
				FALL		30"			INSPECTOR:	Mike W

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			7		**Topsoil** 0'4"	
1		S-1	10		Gr, br cf S, s (-) $, s (+) mf G	Rec = 12"
			9			moist
2			10			
			14			
3		S-2	12		same, w/shale fragments	Rec = 12"
			10			moist
4			8		**Gray, brown coarse to fine Sand, some (-) Silt, some medium to fine Gravel with shale fragments**	
5						
			7			
6		S-3	8		same	Rec = 12"
			10			moist
7			7			
			10			
8		S-4	13		same, l (+) mf G	Rec = 12"
			11			moist
9			12		9'0"	
					End of Boring @ 9'0"	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-107
Project: Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY		SHEET NO.: 1 of 1
Client: Farrell Building Company		JOB NUMBER: 18-130
Drilling Contractor: General Borings Inc.		ELEVATION: +219.5

GROUNDWATER					CASING	SAMPLE	CORE	TUBE		
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			DATUM:	Topo
No Groundwater Encountered				DIA.	3 1/4"	1 3/8"			START DATE:	27/Oct/20
				WGHT		140#			FINISH DATE:	27/Oct/20
				FALL		30"			DRILLER:	John
									INSPECTOR:	Mike W

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			6		**Topsoil** 0'4"	
1		S-1	20		Br, gr cf S, s (-) $, s (+) cf G	Rec = 8"
			22			moist
2			50/3"			
3						many cobbles to 4'6"
						very dense
4						
					Brown, gray coarse to fine Sand,	
5					**some (-) Silt, and coarse to fine**	
			10		**Gravel with shale rock fragments**	
6		S-2	18		same, l $, a cf G, rock fragments	Rec = 8"
			28			moist
7			19			
			23			
8		S-3	22		same, l $, a cf G, w/shale rock fragments	Rec = 8"
			19			moist
9			14			
10						
			16			
11		S-4	18		same, l (+) $, s (-) mf G	Rec = 3"
			19			moist
12			19		12'0"	
					End of Boring @ 12'0"	
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-108
Project: Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY		SHEET NO.: 1 of 1
Client: Farrell Building Company		JOB NUMBER: 18-130
Drilling Contractor: General Borings Inc.		ELEVATION: +211.5

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	27/Oct/20
27/Oct/20	1030	10'6"	HSA	DIA.	3 1/4"	1 3/8"			FINISH DATE:	27/Oct/20
27/Oct/20	1040	10'0"	HSA	WGHT		140#			DRILLER:	John
				FALL		30"			INSPECTOR:	Mike W

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			3		**Topsoil** 0'4"	
1		S-1	6		Gr, br cf S, l (+) $, s (-) mf G	Rec = 8"
			12			moist
2			8			
			8			
3		S-2	9		same, s (-) $	Rec = 8"
			8			moist
4			5			
5						
			34			
6		S-3	30		same, l (+) mf G, w/rock fragments	Rec = 6"
			15		**Gray, brown coarse to fine Sand,**	moist
7			16		**little (+) Silt, some (-) medium to fine**	
			19		**Gravel with rock fragments**	
8		S-4	11		same, w/rock fragments	Rec = 6"
			20			moist
9			24			
10						
			18			
11		S-5	11		same, w/rock fragments	Rec = 2"
			8			moist to wet
12			5		12'0"	
			7			
13		S-6	5		Gr, br cf S, t $, t f G	Rec = 14"
			7		**Gray, brown coarse to fine SAND,**	wet
14			10		**trace Silt, trace fine Gravel** 14'0"	
					End of Boring @ 14'0"	
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-109

Project:	**Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY**	**SHEET NO.:**	1 of 1
Client:	**Farrell Building Company**	**JOB NUMBER:**	18-130
Drilling Contractor:	**General Borings Inc.**	**ELEVATION:**	+210.0

GROUNDWATER					**CASING**	**SAMPLE**	**CORE**	**TUBE**	**DATUM:**	Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**	**HSA**	**SS**			**START DATE:**	27/Oct/20
27/Oct/20	**930**	**8'0"**	**HSA**	**DIA.**	**3 1/4"**	**1 3/8"**			**FINISH DATE:**	27/Oct/20
27/Oct/20	**945**	**8'0"**	**Open**	**WGHT**		**140#**			**DRILLER:**	John
				FALL		**30"**			**INSPECTOR:**	Mike W

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			7		**Topsoil** 0'6"	
1		S-1	10		**FILL (Dark brown coarse to fine SAND,** 0'9"	Rec = 12"
			9		**some (-) Silt, little medium to fine Gravel)**	moist
2			10		Lt br cf S, s $, t (+) f G	
			12			
3		S-2	29		same, s (+) $	Rec = 12"
			28		**Light brown coarse to fine SAND,**	moist
4			28		**some Silt, trace (+) fine Gravel**	
					4'6"	
5						
			20			
6		S-3	17		Gr, br cf S, l (+) $, s cf G, w/rock fragments	Rec = 12"
			24			moist
7			23			
			31			
8		S-4	18		same	Rec = 12"
			13		**Gray, brown coarse to fine Sand,**	moist to wet
9			10		**little (+) Silt, some coarse to fine Gravel,**	tip wet
					with rock fragments	
10						
			5			
11		S-5	5		same	Rec = 0
			9			wet
12			10			
			9			
13		S-6	11		same	Rec = 1"
			12			wet
14			10		14'0"	
					End of Boring @ 14'0"	
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-110

Project:	Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc.	ELEVATION:	+221.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE		
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			DATUM:	Topo
No Groundwater Encountered				DIA.	3 1/4"	1 3/8"			START DATE:	27/Oct/20
				WGHT		140#			FINISH DATE:	27/Oct/20
				FALL		30"			DRILLER:	John
									INSPECTOR:	Mike W

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			8		**Topsoil** 0'4"	
1		**S-1**	13		Br, gr cf S, l $, s mf G	Rec = 1"
			11			moist
2			7			
			6			
3		**S-2**	4		same	Rec = 1"
			3			moist
4			3			
					Brown, gray coarse to fine SAND,	
5					**little Silt, some medium to fine Gravel**	
			15			
6		**S-3**	17		same, s (-) mf G	Rec = 12"
			17			moist
7			20			
			17			
8		**S-4**	21		same, s (-) mf G	Rec = 12"
			26			moist
9			14			
10						Cobbles @ 10'0"
						Auger to 10'6"
11			25			
		S-5	32		same, a (+) cf G	Rec = 12"
12			27			moist
			24		12'6"	
13					**End of Boring @ 12'6"**	
14						
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-111

Project:	Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc.	ELEVATION:	+216.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	23/Nov/20
No Groundwater Encountered				DIA.	3 1/4"	1 3/8"			FINISH DATE:	23/Nov/20
				WGHT		140#			DRILLER:	JC
				FALL		30"			INSPECTOR:	JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			2		**Topsoil** 0'2"	
1		**S-1**	4		Br cf S, l(+) $, l (+) cf G	Rec = 16"
			4			moist
2			6			
			8			
3		**S-2**	17		same, s (+) cf G	Rec = 17"
			17			moist
4			17			
					Brown coarse to fine Sand, some Silt,	
5					**little (+) coarse to fine Gravel**	
			10			
6		**S-3**	11		same, s $, l (+) cf G	Rec = 20"
			7			moist
7			11			
			10			
8		**S-4**	7		same, a $	Rec = 12"
			9			moist
9			7			
10						
			5			
11		**S-5**	6		same, s $, l (-) cf G	Rec = 12"
			14			moist
12			11		12'0"	
					End of Boring @ 12'0"	
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-112
Project: Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY		SHEET NO.: 1 of 1
Client: Farrell Building Company		JOB NUMBER: 18-130
Drilling Contractor: General Borings Inc.		ELEVATION: +223.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	23/Nov/20
No Groundwater Encountered				DIA.	3 1/4"	1 3/8"			FINISH DATE:	23/Nov/20
				WGHT		140#			DRILLER:	JC
				FALL		30"			INSPECTOR:	JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			3		**Topsoil** 0'2"	
1		S-1	6		Br cf S, s $, s cf G	Rec = 12"
			7			moist
2			7			
			9			
3		S-2	7		same	Rec = 10"
			5			moist
4			5			
5						
			2			
6		S-3	2		same	Rec = 8"
			6		**Brown coarse to fine Sand, some Silt,**	moist
7			7		**some coarse to fine Gravel with cobbles**	
			8		**and Boulders**	
8		S-4	5		same	Rec = 4"
			8			moist
9			7			
10						
		S-5	50/5"		same, with cobbles and boulders	Rec = 1"
11						moist
						boulder
12						
13						
			19			
14		S-6	19		same, with cobbles and boulders	Rec = 0"
			23			
15			19		15'0"	
					End of Boring @ 15'0"	
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-113

Project:	**Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY**	**SHEET NO.:**	1 of 1
Client:	**Farrell Building Company**	**JOB NUMBER:**	18-130
Drilling Contractor:	**General Borings Inc.**	**ELEVATION:**	+227.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE		
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			**DATUM:**	Topo
No Groundwater Encountered				DIA.	3 1/4"	1 3/8"			**START DATE:**	23/Nov/20
				WGHT		140#			**FINISH DATE:**	23/Nov/20
				FALL		30"			**DRILLER:**	JC
									INSPECTOR:	JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			3		**Topsoil** 0'2"	
1		S-1	3		Br cf S, s (+) $, s cf G	Rec = 14"
			3			moist
2			5			
			14			
3		S-2	20		same	Rec = 11"
			31		**Brown coarse to fine Sand,**	moist
4			26		**some Silt, some coarse to fine Gravel**	
5						
			11			
6		S-3	17		same, s $	Rec = 13"
			20			moist
7			28			
		S-4	50/4"		same, l $, a cf G 7'4"	Rec = 2"
8					**Shale, highly to completely weathered**	moist
					8'6"	Auger refusal @ 8'6"
9					**End of Boring @ 8'6"**	likely bedrock
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-114
Project: Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY		SHEET NO.: 1 of 1
Client: Farrell Building Company		JOB NUMBER: 18-130
Drilling Contractor: General Borings Inc.		ELEVATION: +226.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			DATUM: Topo
No Groundwater Encountered				DIA.	3 1/4"	1 3/8"			START DATE: 23/Nov/20
				WGHT		140#			FINISH DATE: 23/Nov/20
				FALL		30"			DRILLER: JC
									INSPECTOR: JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION		REMARKS
		S-1	50/5"		Topsoil with Shale	0'2"	Rec = 3"
1					Gray brown coarse to fine Sand, some		moist
					Silt, some coarse to fine Gravel	2'0"	Auger refusal 1'6"
2					Shale highly to completely weathered		moved 2'north
						2'6"	Auger refusal 2'0"
3					End of Boring @ 2'6"		moved 4' south
							auger refusal 2'6"
4							Likely bedrock
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-115

Project:	Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc.	ELEVATION:	+243.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE		
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			DATUM:	Topo
No Groundwater Encountered				DIA.	3 1/4"	1 3/8"			START DATE:	2/Nov/20
				WGHT		140#			FINISH DATE:	2/Nov/20
				FALL		30"			DRILLER:	John W
									INSPECTOR:	Mike W

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			7		**Topsoil** 0'2"	
1		S-1	7		Br, gr cf S, l (-) $, l (+) mf G	Rec = 12"
			8			moist
2			7			
			10			
3		S-2	15		same, s mf G	Rec = 12"
			13			moist
4			30			
5					**Brown, gray coarse to fine SAND,**	
			28		**little (+) Silt, little (+) medium to fine**	
6		S-3	25		same **Gravel with rock fragments**	Rec = 8"
			28			moist
7			24			
			16			
8		S-4	33		same, l (+) $, s (-) mf G, w/rock fragments	Rec = 12"
			30			moist
9			34			
10						
			35			
11		S-5	27		same, l $, s (+) mf G, w/rock fragments	Rec = 8"
			30			moist
12			35		12'0"	
					End of Boring @ 12'0"	
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-116

Project:	Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc.	ELEVATION:	+239.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE		
									DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	20/Nov/20
No Groundwater Encountered				DIA.	3 1/4"	1 3/8"			FINISH DATE:	20/Nov/20
				WGHT		140#			DRILLER:	J Casson
				FALL		30"			INSPECTOR:	Mike W

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			1		**Topsoil** 0'6"	
1		S-1	6		**Brown, gray Clayey SILT some (-), coarse**	Rec = 8"
			6		**to fine Sand, little medium to fine Gravel** 1'6"	moist
2			6			
			6			
3		S-2	10		Br, gr cf S, s (-) $, s (+) cf G	Rec = 12"
			11			moist
4			32			
					Brown, gray coarse to fine Sand,	
5					**little Silt, some (+) coarse to fine Gravel**	
			19		**with fractured rock**	
6		S-3	25		same, l $, w/fractured rock	Rec = 20"
			23			moist
7			21			
			25			
8		S-4	35		same, l $, w/fractured rock	Rec = 16"
			54			moist
9			20/1"		8'7"	
					End of Boring @ 8'7"	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-117

Project:	Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc.	ELEVATION:	+303.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE		
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			DATUM:	Topo
No Groundwater Encountered				DIA.	3 1/4"	1 3/8"			START DATE:	2/Nov/20
				WGHT		140#			FINISH DATE:	2/Nov/20
				FALL		30"			DRILLER:	J Wyant
									INSPECTOR:	Mike W

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			2		**Topsoil** 0'5"	
1		S-1	5		Br $ s (-), cf S, l (+) mf G	Rec = 8"
			3		**Brown SILT some (-), coarse to fine Sand,**	moist
2			3		**little (+) medium to fine Gravel** 2'0"	
			22			
3		S-2	25		Br, gr cf S, l $, s (+) mf G	Rec = 12"
			20			moist
4			19		**Brown, gray coarse to fine Sand,**	
					little Silt, some (+) medium to fine	
5					**Gravel with rock fragments**	
			18			
6		S-3	33		same, a mf G, w/rock fragments 6'0"	Rec = 12"
			25/0"		**End of Boring @ 6'0"**	moist
7						Auger refusal on Shale
						bedrock @ 6'0"
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-118

Project:	Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY	**SHEET NO.:**	1 of 1
Client:	Farrell Building Company	**JOB NUMBER:**	18-130
Drilling Contractor:	General Borings Inc.	**ELEVATION:**	+298.0

GROUNDWATER					**CASING**	**SAMPLE**	**CORE**	**TUBE**		
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**	HSA	SS			**DATUM:**	Topo
No Groundwater Encountered				**DIA.**	3 1/4"	1 3/8"			**START DATE:**	2/Nov/20
				WGHT		140#			**FINISH DATE:**	2/Nov/20
				FALL		30"			**DRILLER:**	J Wyant
									INSPECTOR:	Mike W

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			3		**Topsoil** 0'4"	
1		S-1	3		Br $ s (-), cf S, l (+) mf G	Rec = 8"
			5		**Brown SILT some (-), coarse to fine Sand,**	moist
2			4		**little (+) medium to fine Gravel** 2'0"	
			8		Br, gr cf S, l $, s (+) mf G	
3		S-2	9			Rec = 12"
			18		**Brown, gray coarse to fine Sand,**	moist
4			21		**little Silt, some medium to fine Gravel**	
5						
		S-3	50/1"		Br, gr same 5'6"	Rec = 1"
6					**End of Boring @ 5'6"**	moist
						Auger refusal on Shale
7						bedrock @ 5'6"
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-119

Project:	Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY	**SHEET NO.:**	1 of 1
Client:	Farrell Building Company	**JOB NUMBER:**	18-130
Drilling Contractor:	General Borings Inc.	**ELEVATION:**	+334.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	2/Nov/20
No Groundwater Encountered				DIA.	3 1/4"	1 3/8"			FINISH DATE:	2/Nov/20
				WGHT		140#			DRILLER:	J Wyant
				FALL		30"			INSPECTOR:	Mike W

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			3		**Topsoil** 0'3"	
1		S-1	4		Br cf S, l (+) $, l mf G	Rec = 6"
			7			moist
2			20			
			49			
3		S-2	50/5"		same **Brown coarse to fine Sand, little (+) Silt,**	Rec = 6"
					some coarse to fine Gravel	moist
4						
5						
			35			
6		S-3	50/5"		same, s (+) cf G 6'0"	Rec = 4"
					End of Boring @ 6'0"	moist
7						very dense auguring
						auger refusal @ 6'0" on
8						probable bedrock
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-120

Project:	Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY
Client:	Farrell Building Company
Drilling Contractor:	General Borings Inc.

SHEET NO.:	1 of 1
JOB NUMBER:	18-130
ELEVATION:	+335.0
DATUM:	Topo
START DATE:	2/Nov/20
FINISH DATE:	2/Nov/20
DRILLER:	J Wyant
INSPECTOR:	Mike W

GROUNDWATER

DATE	TIME	DEPTH	CASING
2/Nov/20	1200	NWE	HSA
2/Nov/20	1300	NWE	HSA

	CASING	SAMPLE	CORE	TUBE
TYPE	HSA	SS		
DIA.	3 1/4"	1 3/8"		
WGHT		140#		
FALL		30"		

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			4		**Topsoil** 0'4"	
1		S-1	7		Br, gr cf S, s (-) $, l (+) mf G	Rec = 6"
			9			moist
2			17			
			15			
3		S-2	24		same, l $, s (+) cf G	Rec = 6"
			33			moist
4			30/1"			
5						
			52			
6		S-3	51		same, l $, s (+) cf G	Rec = 10"
			58		**Brown, gray coarse to fine Sand,**	moist
7			47		**little Silt, some medium to fine**	
			36		**Gravel**	
8		S-4	50		same, l $, s (+) cf G	Rec = 12"
			50/5"			moist
9						
10						
			44			
11		S-5	50/4"		same, s cf G	Rec = 0
						moist
12						
13						
14						
15						
		S-6	50/3"		same, s (+) cf G 15'3"	Rec = 1"
16					**End of Boring @ 15'3"**	moist
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-121

Project:	Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc.	ELEVATION:	+305.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	2/Nov/20
2/Nov/20	9:00	5'0"	HSA	DIA.	3 1/4"	1 3/8"			FINISH DATE:	2/Nov/20
				WGHT		140#			DRILLER:	J Wyant
				FALL		30"			INSPECTOR:	Mike W

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			4		**Topsoil** 0'3"	
1		S-1	7		Gr, br $ s, cf S, l (+) mf G	Rec = 12"
			7			moist
2			9			
		S-2A	6		same, gr, br, lt gr, rd br mttld	Rec = 12"
3			21		**Mottled Gray, brown, red brown SILT**	moist
			24		**some, coarse to fine Sand, little (+)**	
4		S-2B	23		same **medium to fine Gravel**	
					no mottling	
5						
			50/3"		same 5'3"	Rec = 0"
6					**End of Boring @ 5'3"**	moist to wet
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-122

Project:	Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc.	ELEVATION:	+309.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	2/Nov/20
2/Nov/20	900	4'6"	HSA	DIA.	3 1/4"	1 3/8"			FINISH DATE:	2/Nov/20
2/Nov/20	1005	4'0"	HSA	WGHT		140#			DRILLER:	J Wyant
				FALL		30"			INSPECTOR:	Mike W

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			7		**Topsoil** 0'2"	
1		S-1	5		**Dark gray SILT some (-), coarse to fine**	Rec = 12"
			12		**Sand, little (-) medium to fine Gravel**	moist
2			10		Dk gr $ s (-), cf S, l (-) mf G 2'0"	
			9			
3		S-2	22		Lt gr, rd br, or br mttld cf S, s $, s (-) mf G	Rec = 12"
			22		**Mottled Light gray, red brown, orange**	moist
4			24		**brown coarse to fine Sand, some Silt,**	
					some medium to fine Gravel	
5						
			27			
6		S-3	25/0"		same, gr br no mttld	Rec = 3"
					End of Boring @ 5'6"	moist
7						Auger refusal @ 5'6" on bedrock
8						Bedrock outcrops nearby
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-123

Project:	**Proposed Hudson Place, Overlook Farm Rt 9W, Newburgh NY**	**SHEET NO.:**	1 of 1
Client:	**Farrell Building Company**	**JOB NUMBER:**	18-130
Drilling Contractor:	**General Borings Inc.**	**ELEVATION:**	+206.5

GROUNDWATER					**CASING**	**SAMPLE**	**CORE**	**TUBE**	**DATUM:**	Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**	**HSA**	**SS**			**START DATE:**	24/Nov/20
24/Nov/20	**2:10**	**8'0"**	**HSA**	**DIA.**	**3 1/4"**	**1 3/8"**			**FINISH DATE:**	24/Nov/20
24/Nov/20	**2:25**	**7'6"**	**HSA**	**WGHT**		**140#**			**DRILLER:**	Scott
				FALL		**30"**			**INSPECTOR:**	Mike W

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
		S-1A	10		**FILL (Gray, brown coarse to fine SAND,**	Rec = 12"
1			10		**some (-) Silt, some (+) medium to fine** 1'0"	
			4		**Gravel**	
2		S-1B	4		Gr, br cf S, s (-) $, s (-) mf G	
			3			
3		S-2	4		same	Rec = 12"
			6			moist
4			14			
					Gray, brown coarse to fine Sand,	
5					**some (-) Silt, some (-) medium to fine**	
		S-3	20/2"		same **Gravel**	Rec = 0"
6						moist
						spoon bouncing
7						cobble 5'0" to 7'0"
			19			
8		S-4	17		same, l $	Rec = 16"
			16			moist to wet
9			18		9'0"	
					End of Boring @ 9'0"	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-1

Project:	Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc	ELEVATION:	+213.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	5/Feb/20
5/Feb/20	930	12'0"	HSA	DIA.	3 1/4"	1 3/8"			FINISH DATE:	5/Feb/20
				WGHT		140#			DRILLER:	J. Wyant
				FALL		30"			INSPECTOR:	JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			5		**Topsoil** 0'5"	
1		S-1	8		Br cf S, s $, s cf G	Rec = 10"
			7			moist
2			5			
			5			
3		S-2	8		same, a $, l (+) cf G	Rec = 18"
			19			moist
4			17			
5						
			6			
6		S-3	7		Br cf G s (-), cf S, t (+) $	Rec = 10"
			10			moist
7			8			
			7			
8		S-4	6		same, s cf G	Rec = 6"
			9			moist
9			14		**Brown coarse to fine SAND, some (-) Silt, and coarse to fine Gravel**	
10						
			11			
11		S-5	11		same	Rec = 15"
			15			wet
12			17			
13						
14						
15						
			16			
16		S-6	17		same, a cf G	Rec = 4"
			12			wet
17			7			
18						
19						
20						
			35			
21		S-7	29		same, l $, l cf G	Rec = 6"
			10			wet
22			12		**End of Boring @ 22'0"** 22'0"	

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-2

Project:	Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc	ELEVATION:	+221.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	5/Feb/20
5/Feb/20	1200	9'6"	HSA	DIA.	3 1/4"	1 3/8"			FINISH DATE:	5/Feb/20
				WGHT		140#			DRILLER:	J. Wyant
				FALL		30"			INSPECTOR:	JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			5		Topsoil 0'1"	
1		S-1	9		Br cf S, s $, a cf G	Rec = 18"
			11			moist
2			8			
			8			
3		S-2	10		same, s cf G	Rec = 12"
			14			moist
4			15			
5						
			15			
6		S-3	26		same, l (+) $	Rec = 10"
			28			moist
7			23			
			21			
8		S-4	33		same	Rec = 0
			31			
9			17		Brown coarse to fine SAND, some (-) Silt, some (+) coarse to fine Gravel	
10						
			14			
11		S-5	16		same	Rec = 6"
			16			wet
12			12			very dense drilling
13						
14						
15						
			13			
16		S-6	20		same	Rec = 6"
			24			wet
17			50/5"			very dense
						boulder @ 18'
18						
19						
20						
			22			
21		S-7	26		same, a cf G	Rec = 3"
			22			wet
22			18		End of Boring @ 22'0" 22'0"	

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-3
Project: Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY		SHEET NO.: 1 of 1
Client: Farrell Building Company		JOB NUMBER: 18-130
Drilling Contractor: General Borings Inc		ELEVATION: +232.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			DATUM: Topo
5/Feb/20	14:30	10'0"	HSA	DIA.	3 1/4"	1 3/8"			START DATE: 5/Feb/20
				WGHT		140#			FINISH DATE: 5/Feb/20
				FALL		30"			DRILLER: J. Wyant
									INSPECTOR: JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	IDENTIFICATION	REMARKS
			4	**Topsoil** 0'4"	
1		S-1	10	Br cf S, s (-) $, l cf G	Rec = 10"
			9		moist
2			10		
			10		
3		S-2	7	same, s cf G	Rec = 12"
			8		moist
4			7		
5					
			10		
6		S-3	8	same	Rec = 4"
			6		moist
7			5	**Brown coarse to fine SAND,**	
			10	**some (-) Silt, little coarse to**	
8		S-4	17	same **fine Gravel**	Rec = 15"
			20		moist
9			13		
10					
			14		
11		S-5	15	same, l (-) $	Rec = 6"
			12		wet
12			12		
13					
14					
15					
			18		
16		S-6	32	same	Rec = 1"
			50/3"		wet
17					
18				18'0"	Auger refusal
				End of Boring @ 18'0"	probable bedrock
19					
20					
21					
22					

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-4
Project: Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY		SHEET NO.: 1 of 1
Client: Farrell Building Company		JOB NUMBER: 18-130
Drilling Contractor: General Borings Inc		ELEVATION: +235.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			DATUM: Topo
5/Feb/20	14:30	7'6"	HSA	DIA.	3 1/4"	1 3/8"			START DATE: 5/Feb/20
				WGHT		140#			FINISH DATE: 5/Feb/20
				FALL		30"			DRILLER: J. Wyant
									INSPECTOR: JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			4		0'2"	
1		S-1	9		Br cf S, s (-) $, s (+) cf G	Rec = 12"
			8			moist
2			7			
			11			
3		S-2	22		same	Rec = 10"
			15			moist
4			11			
5						
			18			
6		S-3	14		same, l $	Rec = 10"
			11		**Brown coarse to fine SAND,**	moist
7			8		**some (-) Silt, some (+) coarse**	
			10		**to fine Gravel**	
8		S-4	13		same, l cf G	Rec = 12"
			12			wet
9			11			
10						
			45			
11		S-5	40		same, s cf G	Rec = 12"
			33			wet
12			36			
13						
14						
15					15'0"	Auger refusal @ 15'0"
					End of Boring @ 15'0"	probable bedrock
16						
17						
18						
19						
20						
21						
22						

CARLIN - SIMPSON & ASSOCIATES Sayreville, N.J.	TEST BORING LOG	BORING NUMBER B-5
Project: Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY		**SHEET NO.:** 1 of 1
Client: Farrell Building Company		**JOB NUMBER:** 18-130
Drilling Contractor: General Borings Inc		**ELEVATION:** +250.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS	NX		START DATE:	13 Feb 20
No Water Reading				DIA.	3 1/4"	1 3/4"	2 3/8"		FINISH DATE:	13 Feb 20
				WGHT		140#			DRILLER:	J. Wyant
				FALL		30"			INSPECTOR:	JP

Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	IDENTIFICATION		REMARKS
			6	**Topsoil**	0'1"	
1		S-1	6	Br, gr cf S, l $, s cf G		Rec = 6"
			28			moist
2			28			
		S-2	50/5"	same		Rec = 0
3						boulder
				Brown, gray coarse to fine SAND,		
4				**little Silt, some coarse to fine**		
				Gravel		
5						
			13			
6		S-3	19	same, l cf G		Rec = 8"
			27			moist
7			18		7'0"	
			17			
8		S-4	24	Br, gr cf G s, cf S, t $		Rec = 20"
			31			moist
9			32			
				Brown, gray coarse to fine GRAVEL		
10				**some, coarse to fine Sand, trace Silt**		
			17			
11		S-5	50/2"	same, a cf G	10'6"	Rec = 5"
						moist
12				**Shale, Completely Weathered**		
13					13'0"	
14						
15				**Gray Shale massive moderately**		Run #1
		Run		**jointed, hard rock, slightly weathered**		13'0"-18'0"
16		#1				Run = 60"
						Rec = 100%
17						RQD = 77%
18					18'0"	
				End of Boring @ 18'0"		
19						
20						
21						
22						

CARLIN - SIMPSON & ASSOCIATES Sayreville, N.J.	TEST BORING LOG	BORING NUMBER B-6
Project: Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY		**SHEET NO.:** 1 of 2
Client: Farrell Building Company		**JOB NUMBER:** 18-130
Drilling Contractor: General Borings Inc		**ELEVATION:** +260.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE		
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS	NX		DATUM:	Topo
No Water Reading				DIA.	3 1/4"	1 3/4"	2 3/8"		START DATE:	14/Feb/20
				WGHT		140#			FINISH DATE:	14/Feb/20
				FALL		30"			DRILLER:	J. Wyant
									INSPECTOR:	JP

Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	IDENTIFICATION	REMARKS
			6	**Topsoil** 0'1"	
1		S-1	7	Gr br cf G s, cf S, t $	Rec = 4"
			13		moist
2			20		
			21	**Gray brown coarse to fine GRAVEL**	
3		S-2	13	same **some, coarse to fine Sand,**	Rec = 5"
			16	**trace Silt**	moist
4			18		boulder
5					
			17		
6		S-3	50/2"	same, l $ 5'8"	Rec = 3"
					moist
7					
8					
9				**Gray Shale, completely crushed,**	
				weathered	
10					
		S-4	50/1"	Gr cf S, l $, a cf G	Rec = 1"
11					moist
					Run #1
12				Gray Shale, completely weathered, crushed	11'6"-13'0"
		Run			Run = 30"
13		#1			Rec = 30" = 100%
					RQD = 0
14					
					Able to auger to 15'0"
15				15'0"	
16					
17				**Gray Shale, blocky and seamy**	Run #2
		Run		**moderately weathered**	15'0"-20'0"
18		#2			Run = 60"
					Rec = 100%
19					RQD = 52%
20					
21		Run		**Gray Shale, blocky and seamy**	Run #3
		#3		**moderately weathered**	20'0"-26'0"
22					

CARLIN - SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-6
Project: Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY		**SHEET NO.:** 2 of 2
Client: Farrell Building Company		**JOB NUMBER:** 18-130

Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
23						
24		Run #3			Gray Shale, blocky and seamy moderately weathered	Run #3 20'0"-26'0" Run = 72" Rec = 100% RQD = 64%
25						
26					26'0"	
27					End of Boring @ 26'0"	
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
46						
47						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-7

Project:	Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc	ELEVATION:	+269.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	13/Feb/20
No Groundwater Encountered				DIA.	3 1/4"	1 3/8"			FINISH DATE:	13/Feb/20
				WGHT		140#			DRILLER:	J. Wyant
				FALL		30"			INSPECTOR:	JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			8		**Topsoil** 0'7"	
1		S-1	16		Br cf S, t (+) $, a cf G	Rec = 10"
			24			moist
2			12			
			16		**Brown coarse to fine SAND,**	
3		S-2	50/6"		same **trace (+) Silt, and coarse to fine**	Rec = 6"
					Gravel	moist
4						very dense
5						
			17			
6		S-3	50/4"		same 6'0"	Rec = 4"
						moist
7						very dense
8						
9					**Gray Shale, Completely Weathered**	
					coarse to fine Sand, some (+) Silt,	
10					**and coarse to fine Gravel**	
			31			
11		S-4	51		Gr, br cf S, s (+) $, a cf G	Rec = 12"
			35			moist
12			47			very dense
13						
14						
15						
		S-5	50/4"		same 15'4"	Rec = 2"
16					**End of Boring @ 15'4"**	moist
						auger and spoon refusal
17						on harder bedrock
18						
19						
20						
21						
22						

CARLIN - SIMPSON & ASSOCIATES Sayreville, N.J.	TEST BORING LOG	BORING NUMBER B-8

Project:	**Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY**	**SHEET NO.:**	1 of 1
Client:	**Farrell Building Company**	**JOB NUMBER:**	18-130
Drilling Contractor:	**General Borings Inc**	**ELEVATION:**	+280.0

GROUNDWATER					**CASING**	**SAMPLE**	**CORE**	**TUBE**	**DATUM:**	Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**	**HSA**	**SS**	**NX**		**START DATE:**	10 Feb 20
No Groundwater Encountered				**DIA.**	**3 1/4"**	**1 3/4"**	**2 3/8"**		**FINISH DATE:**	10 Feb 20
				WGHT		**140#**			**DRILLER:**	J. Wyant
				FALL		**30"**			**INSPECTOR:**	JP

Depth (ft.)	**Casing Blows pre Foot**	**Sample Number**	**Blows on Sample Spoon per 6"**	**S y r**	**IDENTIFICATION**		**REMARKS**
					Topsoil	0'7"	
1		**S-1**			Br cf S, a $, t (+) cf G		Rec = 10"
					Brown coarse to fine SAND, and Silt,		moist
2					**trace (+) coarse to fine Gravel**	1'9"	very dense drilling
3							
4					**Gray Shale, completely weathered**		
					crushed		
5							
6							
							Run #1
7		**Run #1**					5'0"-9'0"
							Run = 48"
8							Rec = 25%
							RQD = 0"
9						9'0"	
10							Run #2
		Run			**Gray Sandstone, Shale**		9'0"-12'0"
11		**#2**			**shattered, very blocky, seamy**		Run = 36"
					weathered rock		Rec = 33%
12						12'0"	RQD = 11%
					End of Boring @ 12'0"		
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-9
Project: Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY		SHEET NO.: 1 of 1
Client: Farrell Building Company		JOB NUMBER: 18-130
Drilling Contractor: General Borings Inc		ELEVATION: +264.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			DATUM: Topo
No Groundwater Encountered				DIA.	3 1/4"	1 3/8"			START DATE: 10/Feb/20
				WGHT		140#			FINISH DATE: 10/Feb/20
				FALL		30"			DRILLER: J. Wyant
									INSPECTOR: JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			5		**Topsoil** 0'2"	
1		S-1	5		Br cf S, s $, s cf G	Rec = 3"
			5			moist
2			6			
			13		**Brown coarse to fine SAND, some Silt,**	
3		S-2	7		same **some coarse to fine Gravel**	Rec = 3"
			7			moist
4			7			
5					5'0"	
		S-3	50/3"		Gr Shale, completely weathered	Rec = 1"
6						moist
7						
8					**Gray Shale, completely weathered**	
9						
10						
		S-4	50/2"		Gr cf S, l $, l cf G, Shale Completely weathered	Rec = 1"
11						moist
12						Auger refusal @ 12'6"
					12'6"	
13					**End of Boring @ 12'6"**	
14						
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-10

Project:	Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc	ELEVATION:	+246.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE		
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			DATUM:	Topo
No Groundwater Encountered				DIA.	3 1/4"	1 3/8"			START DATE:	10/Feb/20
				WGHT		140#			FINISH DATE:	10/Feb/20
				FALL		30"			DRILLER:	J. Wyant
									INSPECTOR:	JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			6		**Gravel** 0'1"	
1		S-1	9		Br, gr cf S, l (+) $, s cf G	Rec = 18"
			20			moist
2			20			
			12			
3		S-2	18		same	Rec = 15"
			9			moist
4			7			
5						
			6			
6		S-3	10		same, a cf G	Rec = 18"
			14			moist
7			25			very dense drilling
			38		**Brown, gray coarse to fine SAND,**	
8		S-4	39		same **little (+) Silt, some coarse to fine**	Rec = 20"
			37		**Gravel**	moist
9			39			very dense drilling
10						
			46			
11		S-5	28		same	Rec = 10"
			37			moist
12			30			very dense drilling
13						
			18			
14		S-6	26		same	Rec = 8"
			27			moist
15			43			very dense drilling
16						
17					17'0"	
18						
					Shale, Completely Weathered	
19						
		S-7	50/2"		Shale, Completely Weathered 19'3"	Rec = 1"
20					**End of Boring @ 19'3"**	moist
						Possible bedrock
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-11
Project: Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY		SHEET NO.: 1 of 1
Client: Farrell Building Company		JOB NUMBER: 18-130
Drilling Contractor: General Borings Inc		ELEVATION: +299.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	11/Feb/20
No Groundwater Encountered				DIA.	3 1/4"	1 3/8"			FINISH DATE:	11/Feb/20
				WGHT		140#			DRILLER:	J. Wyant
				FALL		30"			INSPECTOR:	JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			4		**Topsoil** 0'2"	
1		S-1	7		Br, gr cf S, l $, a cf G	Rec = 6"
			10			moist
2			14			
			17			
3		S-2	15		same	Rec = 10"
			15			moist
4			18			
5					**Brown, gray coarse to fine SAND, little Silt, and coarse to fine Gravel**	
			27			
6		S-3	35		same	Rec = 14"
			31			moist
7			31			
			29			
8		S-4	30		same	Rec = 18"
			38			moist
9			36			
10						
			22			
11		S-5	17		same, t $, l (+) cf G	Rec = 15"
			13			moist
12			13			
13						Auger refusal @ 13'6"
					13'6"	Probable bedrock
14					**End of Boring @ 13'6"**	
15						
16						
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-12
Project: Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY		SHEET NO.: 1 of 1
Client: Farrell Building Company		JOB NUMBER: 18-130
Drilling Contractor: General Borings Inc		ELEVATION: +289.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	10/Feb/20
No Groundwater Encountered				DIA.	3 1/4"	1 3/8"			FINISH DATE:	11/Feb/20
				WGHT		140#			DRILLER:	J. Wyant
				FALL		30"			INSPECTOR:	JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			8			
1		S-1	4		Br, gr cf S, s $, l cf G	Rec = 10"
			3			moist
2			3			
			3			
3		S-2	4		same	Rec = 8"
			4			moist
4			4			
5						
			20			
6		S-3	35		same, l $, s cf G	Rec = 18"
			22			moist
7			25		**Brown, gray coarse to fine SAND,**	
			25		**some Silt, little coarse to fine Gravel**	
8		S-4	22		same	Rec = 18"
			22			moist
9			26			
10						
			12			
11		S-5	12		same, a cf G	Rec = 13"
			5			moist
12			10			very dense drilling
13						
					13'6"	
14						
15						
			31			
16		S-6	40		Gr, br cf G s, cf S, t $	Rec = 6"
			28			moist
17			27		**Gray, brown coarse to fine GRAVEL**	very dense drilling
18					**some, coarse to fine Sand, trace Silt**	
			12			
19		S-7	28		same	Rec = 10"
			29			moist
20			25		20'0"	very dense drilling
					End of Boring @ 20'0"	
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-13

Project:	Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc	ELEVATION:	+290.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	11/Feb/20
11/Feb/20	14:00	12'0"	HSA	DIA.	3 1/4"	1 3/8"			FINISH DATE:	11/Feb/20
				WGHT		140#			DRILLER:	J. Wyant
				FALL		30"			INSPECTOR:	JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			7		**Topsoil** 0'1"	
1		S-1	6		Br cf S, s $, l (+) cf G	Rec = 4"
			4			moist
2			4			
			4			
3		S-2	6		same, a cf G	Rec = 4"
			50/2"			moist
4						
5						
			16			
6		S-3	17		same, l (-) $, s cf G	Rec = 18"
			22			moist
7			19			
			14			
8		S-4	12		same	Rec = 16"
			14			moist
9			19		**Brown coarse to fine SAND, little Silt, some coarse to fine Gravel**	
10						
		S-5	50/5"		same	Rec = 1"
11						moist
						very dense drilling
12						starting @ 10'0"
13						
14						
15						
			23			
16		S-6	12		same, no cf G	Rec = 6"
			7			wet
17			24			
18						
19						
20						
			21			
21		S-7	19		same, l cf G	Rec = 10"
			25			wet
22			40		**End of Boring @ 22'0"** 22'0"	

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-14
Project: Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY		SHEET NO.: 1 of 1
Client: Farrell Building Company		JOB NUMBER: 18-130
Drilling Contractor: General Borings Inc		ELEVATION: +292.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			DATUM: Topo
No Groundwater Encountered				DIA.	3 1/4"	1 3/8"			START DATE: 11/Feb/20
				WGHT		140#			FINISH DATE: 11/Feb/20
				FALL		30"			DRILLER: J. Wyant
									INSPECTOR: JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			3		**Topsoil** 0'6"	
1		S-1	5		Br cf S, s $, l cf G	Rec = 10"
			6			moist
2			7			
			5			
3		S-2	5		same, l (-) $	Rec = 16"
			8			moist
4			5			
5						
			10			
6		S-3	7		same, s cf G	Rec = 10"
			17			moist
7			22		**Brown coarse to fine SAND,**	very dense drilling
			47		**little Silt, some coarse to fine**	starting @ 8'
8		S-4	50/3"		same **Gravel**	Rec = 4"
						moist
9						
10						
			43			
11		S-5	50/4"		same	Rec = 0
12						
13						
			35			
14		S-6	29		same	Rec = 16"
			25			moist
15			27			
16						
17						
18						
19					19'0"	Auger refusal @ 19'0"
					End of Boring @ 19'0"	probable bedrock
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-15

Project:	Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc	ELEVATION:	+333.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	12/Feb/20
No Groundwater Encountered				DIA.	3 1/4"	1 3/8"			FINISH DATE:	12/Feb/20
				WGHT		140#			DRILLER:	J. Wyant
				FALL		30"			INSPECTOR:	JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			4		**Topsoil** 0'4"	
1		S-1	7		Br cf S, a (+) $, s (-) cf G	Rec = 10"
			7			moist
2			9			
			19			
3		S-2	17		same, l $, s cf G	Rec = 6"
			21			moist
4			28			
5						
			19			
6		S-3	20		same, l (+) $	Rec = 4"
			27			moist
7			38		**Brown coarse to fine SAND, some (-) Silt,**	
			31		**little coarse to fine Gravel**	
8		S-4	24		same	Rec = 6"
			26			moist
9			25			
10						
			17			
11		S-5	27		same	Rec = 8"
			15			moist
12			15			
13					13'0"	
14					**Shale Completely Weathered**	Rec = 0"
15						Auger refusal 15'0"
		S-6	50/2"		15'2"	probable bedrock @ 18'0"
16					**End of Boring @ 15'2"**	
17						
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-16

Project:	**Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY**	**SHEET NO.:**	1 of 1
Client:	**Farrell Building Company**	**JOB NUMBER:**	18-130
Drilling Contractor:	**General Borings Inc**	**ELEVATION:**	+329.0

GROUNDWATER					**CASING**	**SAMPLE**	**CORE**	**TUBE**	**DATUM:**	Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**	**HSA**	**SS**			**START DATE:**	12/Feb/20
12/Feb/20	**900**	**10'0"**	**HSA**	**DIA.**	**3 1/4"**	**1 3/8"**			**FINISH DATE:**	12/Feb/20
				WGHT		**140#**			**DRILLER:**	J. Wyant
				FALL		**30"**			**INSPECTOR:**	JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			7		**Topsoil** 0'2"	
1		**S-1**	12		Br, gr cf S, s $, l cf G	Rec = 12"
			12			moist
2			15			slightly mottled
			19			
3		**S-2**	19		same, br	Rec = 18"
			23			moist
4			20			
5						
			14			
6		**S-3**	11		same	Rec = 0
			15			
7			17			
			23			
8		**S-4**	18		same	Rec = 8"
			18		**Brown, gray coarse to fine SAND,**	moist
9			14		**some Silt, little coarse to fine Gravel**	
10						
			11			
11		**S-5**	25		same, l $	Rec = 7"
			12			wet
12			10			
13						
14						
15						
			28			
16		**S-6**	40		same	Rec = 4"
			37			wet
17			29			
18						
19						
20					20'0"	
		S-7	50/3"		**Shale, Completely Weathered** 20'3"	Rec = 2"
21					**End of Boring @ 20'3"**	wet
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-17

Project:	Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc	ELEVATION:	+342.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE		
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			DATUM:	Topo
No Water Encountered				DIA.	3 1/4"	1 3/8"			START DATE:	11/Feb/20
				WGHT		140#			FINISH DATE:	11/Feb/20
				FALL		30"			DRILLER:	J. Wyant
									INSPECTOR:	JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION		REMARKS
			5		Topsoil	0'2"	
1		S-1	26		Brown coarse to fine SAND, little,	1'0"	Rec = 8"
			50/4"		some Silt, little coarse to fine Gravel		moist
2							
3					Shale, Completely Weathered		
4						4'0"	Auger refusal rock @ 1'0"
					End of Boring @ 4'0"		on bedrock
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-18

Project:	**Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY**	**SHEET NO.:**	1 of 1
Client:	**Farrell Building Company**	**JOB NUMBER:**	18-130
Drilling Contractor:	**General Borings Inc**	**ELEVATION:**	+345.0

GROUNDWATER					**CASING**	**SAMPLE**	**CORE**	**TUBE**	**DATUM:**	Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**	**HSA**	**SS**			**START DATE:**	11/Feb/20
11/Feb/20	**1315**	**10'0"**	**HSA**	**DIA.**	**3 1/4"**	**1 3/8"**			**FINISH DATE:**	11/Feb/20
				WGHT		**140#**			**DRILLER:**	J. Wyant
				FALL		**30"**			**INSPECTOR:**	JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			4		**Topsoil** 0'6"	
1		**S-1**	7		Br cf S, s $, l (-) cf G	Rec = 10"
			13			moist
2			22			
			33			
3		**S-2**	30		same, l (+) cf G	Rec = 15"
			18			moist
4			32			
5						
			44			
6		**S-3**	39		same, a cf G	Rec = 12'
			22			moist
7			25			
			22			
8		**S-4**	18		same, t cf G	Rec = 10"
			14		**Brown coarse to fine SAND,**	moist
9			16		**some Silt, little (-) coarse to**	
					fine Gravel	
10						
			10			
11		**S-5**	33		same, a cf G	Rec = 12"
			35			wet
12			22			
13						
14						
15						
			10			
16		**S-6**	15		same, l cf G	Rec = 12"
			15			wet
17			31			
18						
19					19'0"	Auger refusal
					End of Boring @ 19'0"	possible bedrock
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-19
Project: Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY		SHEET NO.: 1 of 1
Client: Farrell Building Company		JOB NUMBER: 18-130
Drilling Contractor: General Borings Inc		ELEVATION: +344.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE		
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			DATUM:	Topo
No Groundwater Encountered				DIA.	3 1/4"	1 3/8"			START DATE:	12/Feb/20
				WGHT		140#			FINISH DATE:	12/Feb/20
				FALL		30"			DRILLER:	J. Wyant
									INSPECTOR:	JP

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			6		**Topsoil** 0'1"	
1		S-1	11		Br cf S, s $, l cf G	Rec = 16"
			11			moist
2			11			
			12			
3		S-2	18		same	Rec = 20"
			18			moist
4			22			boulder
5						
			14			
6		S-3	19		same, s (-) cf G	Rec = 19"
			24		**Brown coarse to fine SAND, some Silt,**	moist
7			21		**little coarse to fine Gravel**	
			23			
8		S-4	22		same, l cf G	Rec = 20"
			22			moist
9			19			
10						
			21			
11		S-5	50/3"		same	Rec = 2"
						moist
12						boulder
13						
14						
15						
			3			
16		S-6	50/4"		same, l (-) $	
					16'6"	Auger refusal @ 16'6"
17					**End of Boring @ 16'6"**	probable bedrock
18						
19						
20						
21						
22						

CARLIN - SIMPSON & ASSOCIATES Sayreville, N.J.	TEST BORING LOG	BORING NUMBER B-20

Project:	Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc	ELEVATION:	+276.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS	DBL		START DATE:	13 Feb 20
No Groundwater Encountered				DIA.	3 1/4"	1 3/4"	2"		FINISH DATE:	13 Feb 20
				WGHT		140#			DRILLER:	J. Wyant
				FALL		30"			INSPECTOR:	JP

Depth (ft.)	Casing Blows pre Foot	Sample Number	Blows on Sample Spoon per 6"	IDENTIFICATION	REMARKS
			5	**Topsoil** 0'5"	
1		S-1	14	Gr, br cf G a (+), cf S, l (+) $	Rec = 13"
			18		moist
2			28		
			43		
3		S-2	34	same	Rec = 15"
			34	**Gray, brown coarse to fine SAND,**	moist
4			39	**little (-) Silt, and coarse to fine Gravel**	very dense
				with boulders	
5					
			19		
6		S-3	24	same, br l $, s cf G	Rec = 20"
			25		moist
7			18		
			30		
8		S-4	46	same, l (+) cf G	Rec = 8"
			22		moist
9			50/4"		boulder
					very dense
10					
			26		
11		S-5	22	same, s cf G	Rec = 17"
			23		moist
12			24		very dense
13					
14					
15				15'0"	
16					
17					
				Gray Shale, shattered, very blocky	Run #1
18		Run #1		**and seamy, weathered rock**	15'0"-21'0"
					Run = 72"
19					Rec = 44%
					RQD = 35%
20					
					Seam 16'0" - 17'0"
21				21'0"	
				End of Boring @ 21'0"	
22					

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-21

Project:	Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc	ELEVATION:	+206.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	17/Feb/20
17/Feb/20	930	11'4"	HSA	DIA.	3 1/4"	1 3/8"			FINISH DATE:	17/Feb/20
17/Feb/20	945	10'9"	HSA	WGHT		140#			DRILLER:	J. Wyant
				FALL		30"			INSPECTOR:	KWA

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	IDENTIFICATION	REMARKS
				Asphalt 0'2"	
1					
			7		
2		S-1	6	FILL (Br cf S, s $, s cf G)	Rec = 4"
			6		moist
3			6		
			3		
4		S-2	3	FILL (same)	Rec = 0"
			4	**FILL (Brown coarse to fine SAND,**	
5			7	**some Silt, some coarse to fine Gravel**	
			3	**with brick and topsoil)**	
6		S-3	4	FILL (same,s (+) $, a cf G, t/brick)	Rec = 13"
			5		moist
7			5		
			4		
8		S-4	6	FILL (Br Cy $ s, cf S, w/topsoil)	Rec = 18"
			6	8'6"	moist
9			15		
10					
			14		
11		S-5	21	Br cf S, a $, l (+) cf G	Rec = 20"
			21		moist
12			18		
13					
14					
15				**Brown coarse to fine SAND, and Silt,**	
			3	**little (+) coarse to fine Gravel**	
16		S-6	3	same	Rec = 10"
			6		wet
17			5		
18					
19					
20					
			4		
21		S-7	9	same	Rec = 6"
			13		wet
22			12	**End of Boring @ 22'0"** 22'0"	

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-22

Project:	**Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY**	**SHEET NO.:**	1 of 1
Client:	**Farrell Building Company**	**JOB NUMBER:**	18-130
Drilling Contractor:	**General Borings Inc**	**ELEVATION:**	+202.5

GROUNDWATER					**CASING**	**SAMPLE**	**CORE**	**TUBE**	**DATUM:**	Topo
DATE	**TIME**	**DEPTH**	**CASING**	**TYPE**	**HSA**	**SS**			**START DATE:**	17/Feb/20
17/Feb/20	**1045**	**5'3"**	**HSA**	**DIA.**	**3 1/4"**	**1 3/8"**			**FINISH DATE:**	17/Feb/20
				WGHT		**140#**			**DRILLER:**	J. Wyant
				FALL		**30"**			**INSPECTOR:**	KWA

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			1		**Brown topsoil** 0'6"	
1		**S-1**	4		Br Cy $ s (+), cf S, l (-) cf G	Rec = 14"
			6			moist
2			5			
			5			
3		**S-2**	7		same	Rec =15"
			13			moist
4			5			
5						
			5			
6		**S-3**	10		same	Rec = 16"
			15			moist
7			17			
			17			
8		**S-4**	17		same, s cf G	Rec = 18"
			17			wet
9			15		**Brown Clayey SILT some (+), coarse to fine Sand, little (-) coarse to fine Gravel**	
10						
			16			
11		**S-5**	16		same	Rec = 13"
			23			wet
12			18			
13						
14						
15						
			12			
16		**S-6**	13		same	Rec = 10"
			13			wet
17			9			
18						
19						
20						
			9			
21		**S-7**	10		same	Rec = 7"
			13			wet
22			13		**End of Boring @ 22'0"** 22'0"	

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-23

Project:	Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc	ELEVATION:	+207.5

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	17/Feb/20
17/Feb/20	1150	7'0"	HSA	DIA.	3 1/4"	1 3/8"			FINISH DATE:	17/Feb/20
17/Feb/20	1230	7'0"	HSA	WGHT		140#			DRILLER:	J. Wyant
				FALL		30"			INSPECTOR:	KWA

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	IDENTIFICATION	REMARKS
			6		
1		S-1	4	FILL (Br cf S, a $, l (+) cf G)	Rec = 8"
			6		moist
2			4		
			4		
3		S-2	3	FILL (same, t brick)	Rec = 10"
			3	**FILL (Brown coarse to fine SAND,**	moist
4			8	**and Silt, little (+) coarse to fine Gravel**	
				trace brick)	
5					
			5		
6		S-3	4	FILL (same)	Rec = 17"
			6	6'3"	moist to wet
7			8	Br cf S, a (+) $, l (+) cf G	
			8		
8		S-4	12	same	Rec = 10"
			12		wet
9			7		
10					
			23		
11		S-5	21	Br Cy $ s, cf S, l cf G, w/Shale fragments	Rec = 15"
			25	**Brown coarse to fine SAND,**	wet
12			33	**and (+) Silt, little (+) coarse to**	
				fine Gravel	
13					
					very dense augering 10'-15'
14					
15					
			14	same	
16		S-6	27		Rec =15"
			26		wet
17			20	17'0"	
				End of Boring @ 17'0"	
18					
19					
20					
21					
22					

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-24
Project: Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY		SHEET NO.: 1 of 1
Client: Farrell Building Company		JOB NUMBER: 18-130
Drilling Contractor: General Borings Inc		ELEVATION: +201.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	17/Feb/20
17/Feb/20	1345	3'2"	HSA	DIA.	3 1/4"	1 3/8"			FINISH DATE:	17/Feb/20
				WGHT		140#			DRILLER:	J. Wyant
				FALL		30"			INSPECTOR:	KWA

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
1		S-1	2 / 2		**Brown topsoil** 0'8" Gr br cf S, s (+) $, l (-) mf G	Rec = 12"
2			4 / 4			moist
3		S-2	5 / 7		Br cf S, s (+) $, s mf G	Rec = 14"
4			16 / 6			moist
5						
6		S-3	5 / 9		same	Rec = 15"
7			12 / 20		**Gray brown coarse to fine SAND, some (+) Silt, little (-) medium to fine Gravel**	wet
8		S-4	21 / 21		same	Rec = 12"
9			24 / 14			wet
10						
11		S-5	14 / 16		Br cf G a, $, l cf S	Rec = 17"
12			57 / 20/1"			wet
13						
14						
15						
16		S-6	25 / 35		same	Rec = 10"
17			26 / 21		17'0" **End of Boring @ 17'0"**	wet
18						
19						
20						
21						
22						

CARLIN-SIMPSON & ASSOCIATES Sayreville, NJ	TEST BORING LOG	BORING NUMBER B-25

Project:	Hudson Place at Overlook Farm, Rt. 9W, Newburgh NY	SHEET NO.:	1 of 1
Client:	Farrell Building Company	JOB NUMBER:	18-130
Drilling Contractor:	General Borings Inc	ELEVATION:	+219.0

GROUNDWATER					CASING	SAMPLE	CORE	TUBE	DATUM:	Topo
DATE	TIME	DEPTH	CASING	TYPE	HSA	SS			START DATE:	17/Feb/20
17/Feb/20	1500	14'9"	HSA	DIA.	3 1/4"	1 3/8"			FINISH DATE:	17/Feb/20
				WGHT		140#			DRILLER:	J. Wyant
				FALL		30"			INSPECTOR:	KWA

Depth (ft.)	Casing Blows per Foot	Sample Number	Blows on Sample Spoon per 6"	Sym	IDENTIFICATION	REMARKS
			4		**Brown topsoil** 0'3"	
1		S-1	8		Br cf S, s $, s (+) cf G	Rec = 10"
			17			moist
2			17			
			7			
3		S-2	11		same	Rec = 12"
			11			moist
4			16			
5						
			10			
6		S-3	10		same	Rec = 13"
			12			moist
7			12			
			13			
8		S-4	16		same	Rec = 14"
			18			moist
9			11			
					Brown coarse to fine SAND, some Silt,	
10					**some (+) coarse to fine Gravel**	
			9			
11		S-5	9		Br cf G s (-), cf S, s $	Rec = 10"
			11			moist
12			13			
13						
14						
15						
			18			
16		S-6	18		Br cf S, s (+) $, s cf G	Rec = 18"
			18			wet
17			15			
18						
19						
20						
			13			
21		S-7	18		Br cf S, s (+) $, l mf G	Rec = 19"
			12			wet
22			7		**End of Boring @ 22'0"** 22'0"	

GENERAL NOTES:

1. GENERAL LAYOUT WAS OBTAINED FROM A DRAWING PREPARED BY JMC, PLLC, ENTITLED ""GRADING PLAN", DRAWING No. C-200, DATED 23 OCTOBER 2019.
2. BORING LOCATIONS WERE LAID OUT IN THE FIELD BY CARLIN-SIMPSON & ASSOCIATES (CSA).
3. BORINGS (B-1 THROUGH B-25) WERE PERFORMED BY GENERAL BORINGS INC. IN FEBRUARY 2020 UNDER THE FULL TIME INSPECTION OF CSA.
4. BORINGS (B-101 THROUGH B-123) WERE PERFORMED BY GENERAL BORINGS INC. IN OCTOBER AND NOVEMBER 2020 UNDER THE FULL TIME INSPECTION OF CSA
5. LOCATIONS ARE APPROXIMATE.

LEGEND:

- BORING LOCATION, B-101 THROUGH B-123
- BORING LOCATIONS B-1 THROUGH B-25
- BEDROCK OUTCROPS

ROBERT B. SIMPSON, P.E.
PROFESSIONAL ENGINEER

LICENSE NO. | SIGNATURE | DATE

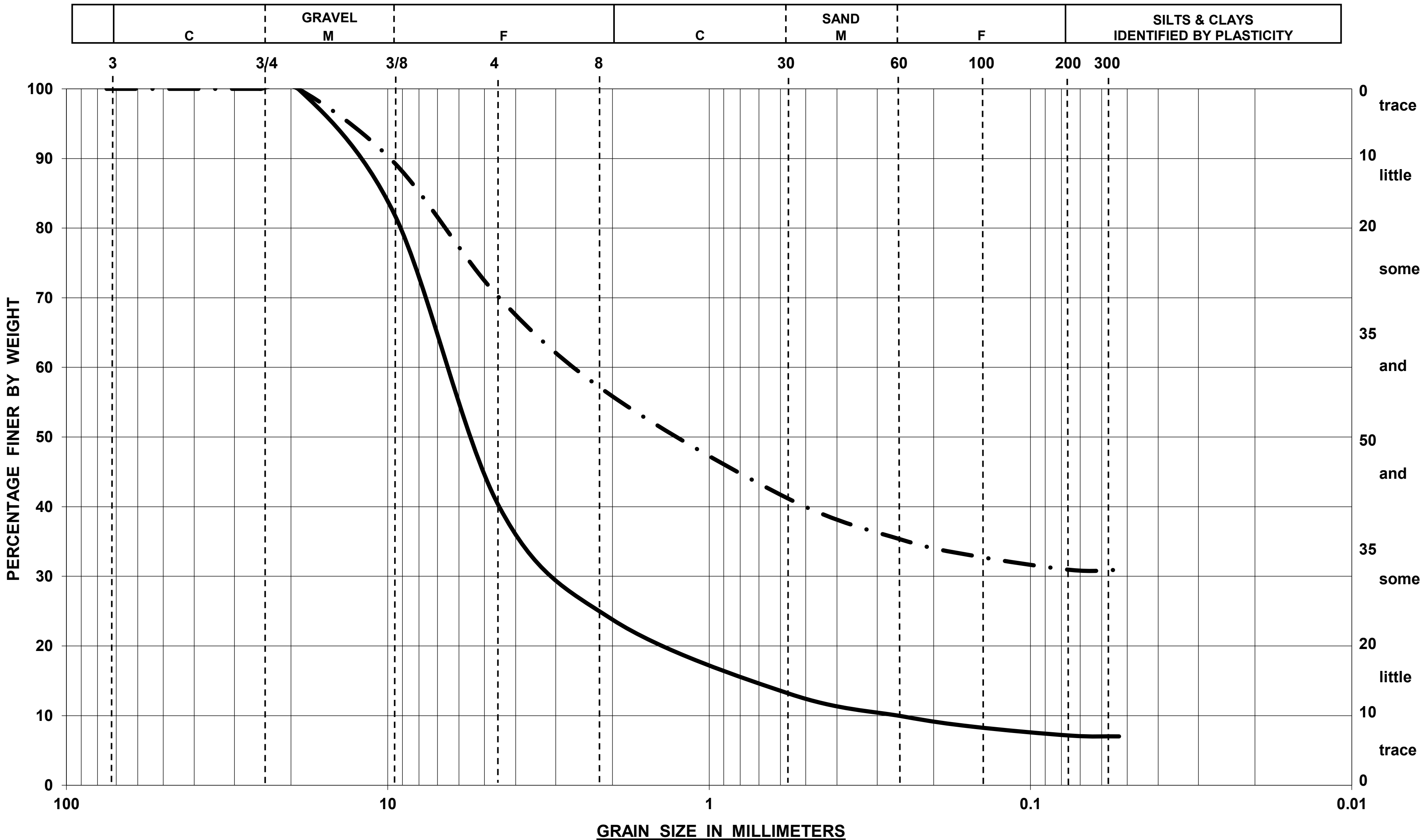
BORING LOCATION PLAN

PROPOSED DEVELOPMENT
HUDSON PLACE AT OVERLOOK FARMS
ROUTE 9W
NEWBURGH, NEW YORK

DRAWN MW	SCALE 1" = 60'	CARLIN-SIMPSON AND ASSOCIATES 61 Main Street Sayreville, NJ 08872 Consulting Geotechnical and Environmental Engineers
CHECKED RBS	DATE 7 DEC 20	
PROJECT NO. 18-130	DWG NO. FIG -1	
APPROVED		

CARLIN-SIMPSON & ASSOCIATES
SAYREVILLE, NJ 08872

SIEVE ANALYSIS

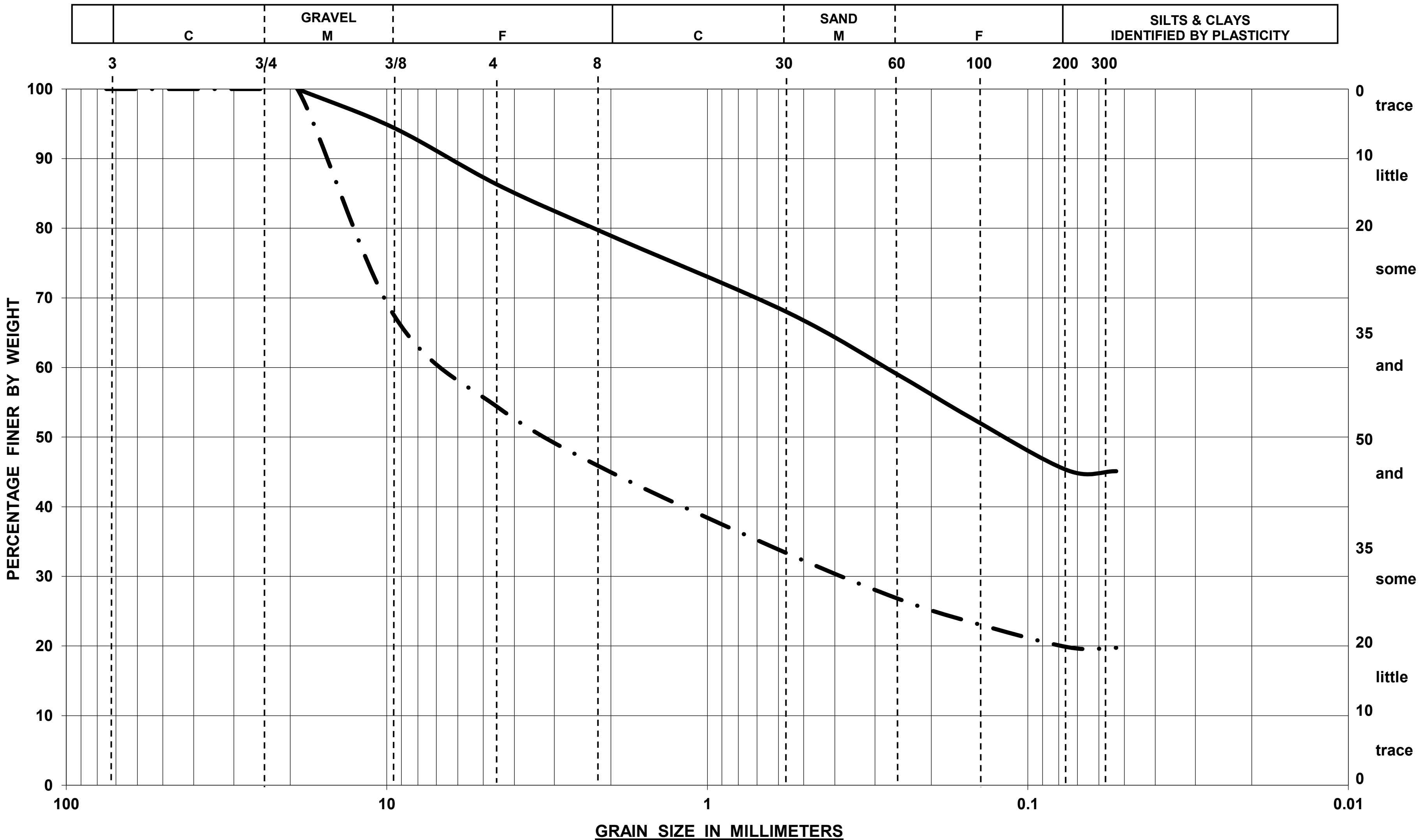


SYMBOL	BORING	SAMPLE	DEPTH	DESCRIPTION	NAT MC
———	B-1	S-3	5'0" - 7'0"	Brown coarse to fine GRAVEL some (-), coarse tofine Sand, trace (+) Silt	0.9%
— ·	B-7	S-4	10'0" - 12'0"	Completely Weathered Shale, Gray brown coarse to fine Sand, some (+) Silt, and coarse to fine Gravel	0.8%

PROJECT Hudson Place at Overlook Farms, Rt 9W Newburgh, NY **BY** NJA **DATE** 20-Mar-20 **JOB NO** 18-130

CARLIN-SIMPSON & ASSOCIATES
SAYREVILLE, NJ 08872

SIEVE ANALYSIS

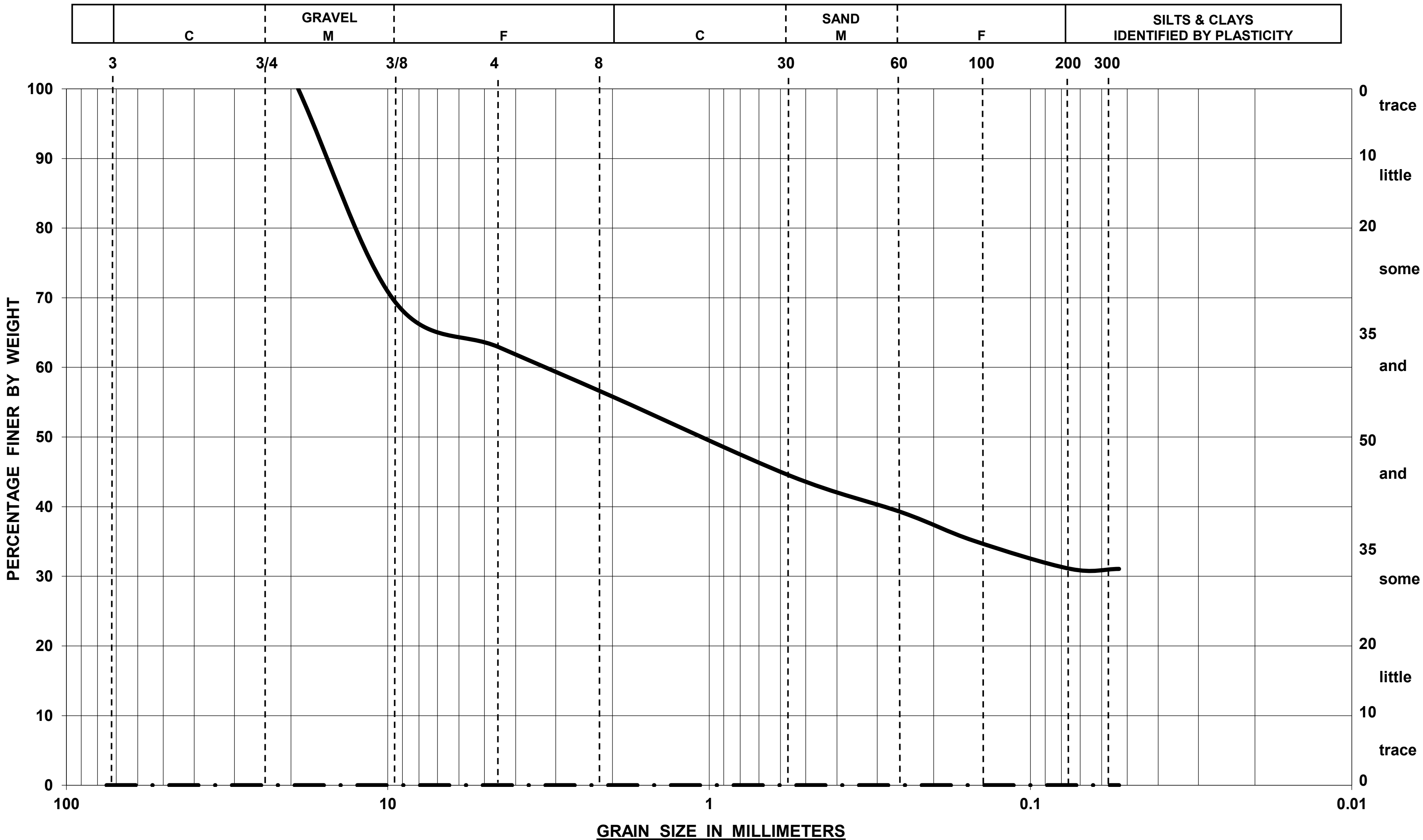


SYMBOL	BORING	SAMPLE	DEPTH	DESCRIPTION	NAT MC
———	B-15	S-1	0'0" - 2'0"	Brown coarse to fine Sand, and (+) Silt, some (-) coarse to fine Gravel	7.1%
— ·	B-20	S-1	0'0" - 2'0"	Gray, brown coarse to fine GRAVEL and (+), coarse tofine Sand, little (+) Silt	2.1%

PROJECT Hudson Place at Overlook Farms, Rt. 9W Newburgh, New York **BY** NJA **DATE** 20-Mar-20 **JOB NO** 18-130

CARLIN-SIMPSON & ASSOCIATES
SAYREVILLE, NJ 08872

SIEVE ANALYSIS



SYMBOL	BORING	SAMPLE	DEPTH	DESCRIPTION	NAT MC
———	B-21	S-3	5'0" - 7'0"	FILL (Brown coarse to fine Sand, some (+) Silt, and coarse to fine Gravel)	9.6%
— ·					

PROJECT Hudson at Overlook Farms, Rt 9W Newburgh New York **BY** NJA **DATE** 20-Mar-20 **JOB NO** 18-130

APPENDIX E

Temporary Erosion and Sediment Control Inspection and Maintenance Checklist
Permanent Stormwater Practice Operation, Maintenance and Management Inspection Checklists

JMC Project 17088
Overlook Farms
Route 9W
Newburgh , NY

Temporary Erosion and Sediment Control Inspection and Maintenance Checklist

Erosion and Sediment Control Measure	Inspection/Maintenance Intervals	Inspection/Maintenance Requirements
Stabilized Construction Entrance	Daily	• Periodic top dressing with additional aggregate as required • Clean sediment in public right-of-ways immediately
Silt Fence	Weekly + After Each Rain	• Remove & redistribute sediment when bulges develop in the silt fence.
Inlet Protection	Weekly + After Each Rain	• Remove sediment as necessary and replace filter fabric, crushed stone etc. • Any broken and damaged components should be replaced. • Check all materials for proper anchorage and secure as necessary.
Concrete Washout	Daily	• Damaged or leaking facilities shall be deactivated and repaired or replaced immediately.
	After Each Rain	• Pump excess rainwater that has accumulated over hardened concrete to a stabilized area.
		• Remove accumulated hardened material when 75% of the storage capacity of the structure is filled. Replace plastic liner with each cleaning of the washout facility.
Haybales	Daily	• Remove sediment and debris • Check that all bales are tight against each other and the ground surface.

Temporary Erosion and Sediment Control Inspection and Maintenance Checklist (Cont'd)

Erosion and Sediment Control Measure	Inspection/Maintenance Intervals	Inspection/Maintenance Requirements
Temporary Swale	Weekly + After Each Rain	• Immediately remove any sediment and reestablish vegetative cover as required. • Inspect entire swale and surrounding area for rilling and repair as required with the placement of additional topsoil, then seeding and mulching, as outlined in Figure No. 5A.2 of the NYSDEC New York State Standards and Specifications for Erosion and Sediment Control.
Temporary Sediment Basin	Weekly + After Each Rain	• Remove and redistribute sediment when it reaches an elevation indicated on the construction documents. • Check for rilling within and around the sediment basin and repair as required. • Remove all sediment and debris from the outlet control structure as maybe required.

<u>Permanent Stormwater Management Practice Inspection and Maintenance Checklist</u>

Stormwater Management Practice	**Inspection/Maintenance Intervals**	**Inspection/Maintenance Requirements**
Vegetated Swale	Annually + After Major Storms	• Clean sediment and re-vegetate as necessary. • Check condition of outlet and repair as necessary
Rip-Rap Apron/Energy Dissipator and Check Dams	Annually + After Major Storms	• Check for evidence of flows going around the structure. • Check for evidence at downstream toe and repair as needed. • Clean sediment and install additional aggregate as necessary.
Stormwater Management Basin	Monthly	• Check Permanent Pool for undesirable vegetative growth and floatings or floatable debris. Remove as needed. • Check Forebays for sediment and cleanout when it depth <50% design depth. • Check Dry Pond areas for adequate vegetation, undesirable vegetative growth, low flow channels are clear of obstructions, standing water or wet spots and sediment and/or trash accumulation. Repair/remove as necessary.

Permanent Stormwater Management Practice Inspection and Maintenance Checklist (Cont'd)

Stormwater Management Practice	Inspection/Maintenance Intervals	Inspection/Maintenance Requirements
Stormwater Management Basin	Annually + After Major Storms	• Check adequacy of vegetation and ground cover; for evidence of embankment erosion, animal burrows, unauthorized plantings and cracking, bulging or sliding of dam, clear/properly functioning drains, seeps/leaks on downstream face, failure of slope protection or riprap. Repair/remove as necessary. • Confirm emergency spillway is clear of obstructions and debris. • Confirm all inlets and outlet structures/pipes are operating properly.
Drain Inlets	Monthly	• Check for blockage and/or erosion at top of each inlet. Repair/remove as necessary. • Check for sediment and debris collected within sumps and clean out as necessary.
Subsurface Stormwater Management Detention Facility	Annually + After Major Storms	• Check level of sediment and debris accumulated within the system. • Check structural integrity of the system pipes, structures, etc. for cracking, bulging or deterioration. Repair/remove as necessary. • Confirm all inlets and outlet structures/pipes are operating properly.

<u>Permanent Stormwater Management Practice Inspection and Maintenance Checklist (Cont'd)</u>

Stormwater Management Practice	Inspection/Maintenance Intervals	Inspection/Maintenance Requirements
StormTech Subsurface Retention Facility	(See Maintenance Guidelines in Appendix XXXXX)	• Check level of sediment accumulated within the isolator row through the access manhole. If 3 inches of sediment or greater, clean out utilizing a high pressure water nozzle to scour and suspend sediments. • Flush all sediment to access manhole and remove using a vacuum truck.
Hydrodynamic Water Quality Structure	(See Maintenance Guidelines in Appendix XXXXX)	• Open access cover for visual inspection and measure the distance from the standing water surface to the sediment pile with a measuring stick or tape. If less than 4 feet, insert hose from vacuum truck into the sump and screen through both access covers to clean out the standing water, layer of oil, sediment, trash, etc. • The screen must be powerwashed to ensure it is free of trash and debris.
		•

The owner/operator responsible for inspection and maintenance as outlined above:
Contact Company
Contact Name
Street Address
City, State Zip
Phone:
Fax:
Email:

APPENDIX F

CONTRACTOR'S CERTIFICATION

JMC Project XXXX
PROJECT NAME
XXXXX
TOWN, NY

CONTRACTOR'S CERTIFICATION

"I hereby certify that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the owner or operator must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I am aware there are significant penalties for submitting false information that I do not believe to be true, including the possibility of time and imprisonment for knowing violations."

Company Name: ____

Address: ____

Telephone Number: ____

Name and Title: ____

Signature: ____Date: ________________

Permit Identification No.:____

Name and Title of Trained Contractor:_______________________________________

Elements of the SWPPP Contractor is responsible for:___________________________

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APPENDIX G

SPDES GENERAL PERMIT No. GP-0-20-001

APPENDIX H

STORM WATER CONTROL FACILITY MAINTENANCE AGREEMENT

STORM WATER CONTROL
FACILITY MAINTENANCE AGREEMENT

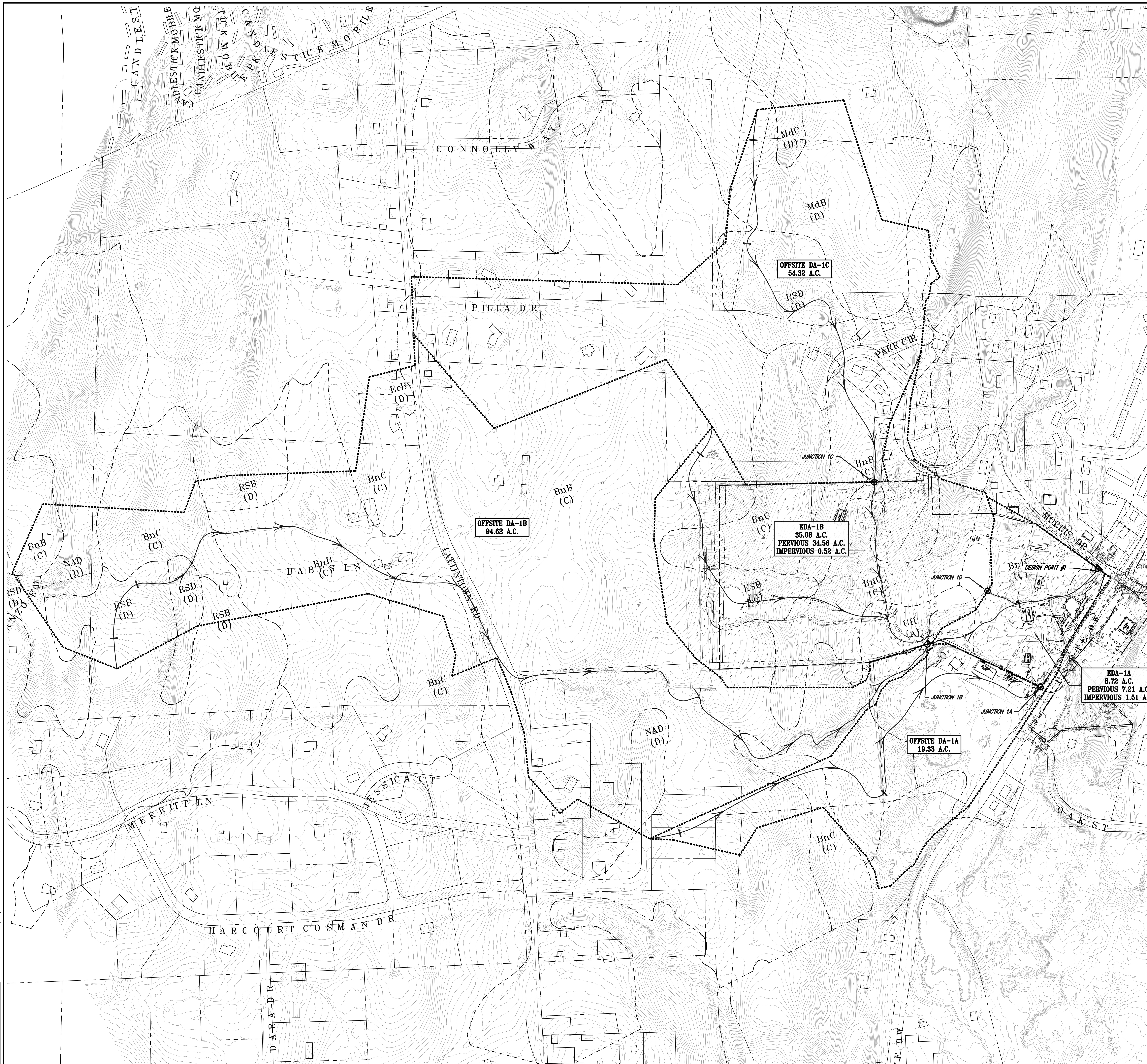
WHEREAS, the Town of Newburgh ("Town") and Farrell Communities at Overlook Ponds LLC ("facility owner") want to enter into an agreement to provide for the long term maintenance and continuation of storm water control measures approved by the Town for the below named project, and

WHEREAS, the Town and the facility owner desire that the storm water control measures be built in accordance with the approved project plans and thereafter be maintained, cleaned, repaired, replaced and continued in perpetuity in order to ensure optimum performance of the components. Therefore, the Town and the facility owner agree as follows:

1. This agreement binds the Town and the facility owner, its successors and assigns, to the maintenance provisions depicted in the approved project plans which are attached as Schedule A of this agreement.
2. The facility owner shall maintain, clean, repair, replace and continue the storm water control measures depicted in Schedule A as necessary to ensure optimum performance of the measures to design specifications. The storm water control measures shall include, but shall not be limited to, the following: drainage ditches, swales, dry wells, infiltrators, drop inlets, pipes, culverts, soil absorption devices and retention ponds.
3. The facility owner shall be responsible for all expenses related to the maintenance of the storm water control measures and shall establish a means for the collection and distribution of expenses among parties for any commonly owned facilities.
4. The facility owner shall provide for the periodic inspection of the storm water control measures, not less than once in every five-year period, to determine the condition and integrity of the measures. Such inspection shall be performed by a Professional Engineer licensed by the State of New York. The inspecting engineer shall prepare and submit to the Town within 30 days of the inspection, a written report of the findings including recommendations for those actions necessary for the continuation of the storm water control measures.
5. The facility owner shall not authorize, undertake or permit alteration, abandonment, modification or discontinuation of the storm water control measures except in accordance with written approval of the Town.
6. The facility owner shall undertake necessary repairs and replacement of the storm water control measures at the direction of the Town or in accordance with the recommendations of the inspecting engineer.
7. The facility owner shall provide to the Town within 30 days of the date of this agreement, a security for the maintenance and continuation of the storm water control measures in the form of (a Bond, letter of credit or escrow account).
8. This agreement shall be recorded in the Office of the County Clerk, County of Orange, together with the deed for the common property and shall be included in the offering plan and/or prospectus approved pursuant to ___________.
9. If ever the Town determines that the facility owner has failed to construct or maintain the storm water control measures in accordance with the project plan or has failed to undertake corrective action specified by the Town or by the inspecting engineer, the Town is authorized to undertake such steps as reasonably necessary for the preservation, continuation or maintenance of the storm water control measures and to affix the expenses thereof as a lien against the property.
10. This agreement is effective ___________.

APPENDIX I

DRAWINGS



EXISTING DRAINAGE LEGEND

- GIS CONTOUR (2' TOPOGRAPHY)
- FLAGGED WETLANDS
- PROPERTY LINE
- EXISTING BUILDINGS
- GIS BUILDINGS
- WATERSHED BOUNDARY LINE
- LIMIT OF SOIL GROUPS LINE
- FLOW PATH LINE
- HYDROLOGIC SOIL GROUP 'A'
- HYDROLOGIC SOIL GROUP 'C'
- HYDROLOGIC SOIL GROUP 'D'
- GIS STREAMS
- GIS PARCEL LINES
- EXISTING PAVEMENT LINES
- EXISTING GRAVEL PATH
- EXISTING POND/WATERBODY
- NwC (B) SOIL DESIGNATION AND HYDROLOGIC SOIL GROUP

SOIL TYPE TABLE

DESIGNATION	HYDROLOGIC GROUP	DESCRIPTION
BnB	C	BATH–NASSAU CHANNERY SILT LOAMS, 3 TO 8 PERCENT SLOPES
BnC	C	BATH–NASSAU CHANNERY SILT LOAMS, 8 TO 15 PERCENT SLOPES
UH	A	UDORTHENTS, SMOOTHED
ESB	D	ERIE EXTREMELY STONY SOILS, GENTLY SLOPING
MdB	D	MARDIN GRAVELLY SILT LOAM, 3 TO 8 PERCENT SLOPES
MdC	D	MARDIN GRAVELLY SILT LOAM, 8 TO 15 PERCENT SLOPES
RSD	D	ROCK OUTCROP–NASSAU COMPLEX, HILLY
NAD	D	NASSAU CHANNERY SILT LOAM, 15–25 PERCENT SLOPES
ErB	D	ERIE GRAVELLY SILT LOAM, 3 TO 8 PERCENT SLOPES

No.	Revision	Date	By

Previous Editions Obsolete

APPLICANT:

FARRELL COMMUNITIES AT OVERLOOK PONDS LLC
P.O. BOX 14
BRIDGEHAMPTON, NY 11932

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.
120 BEDFORD ROAD • ARMONK, NY 10504
voice 914.273.5225 • fax 914.273.2102
www.jmcpllc.com

EXISTING DRAINAGE AREA MAP

OVERLOOK FARMS A FARRELL COMMUNITY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

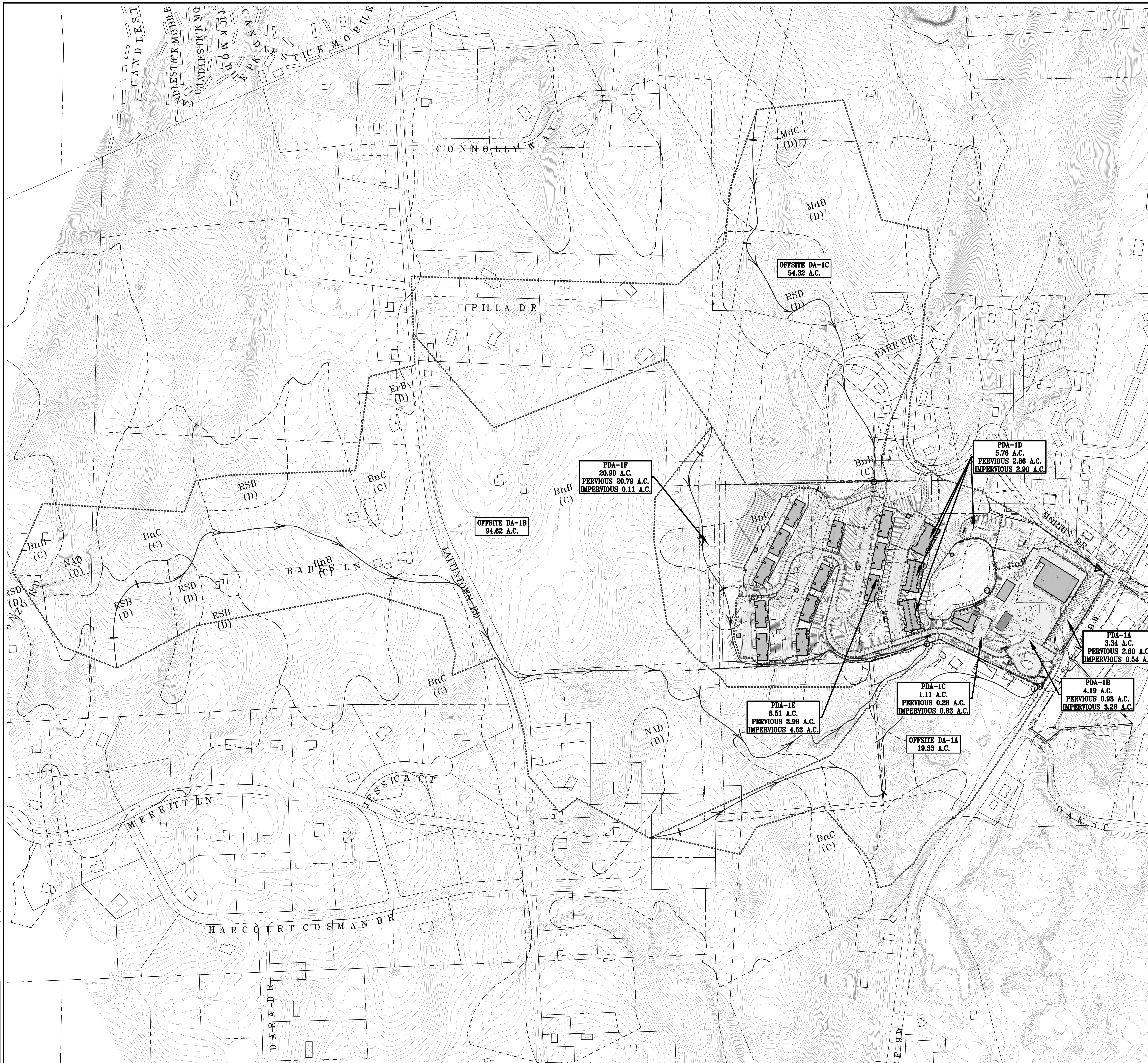
ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

GIS GEOGRAPHIC INFORMATION SYSTEMS

THE 2-FOOT CONTOURS DEPICTED ON THIS PLAN ARE INTENDED TO BE USED FOR PLANNING & PRELIMINARY ENGINEERING APPLICATIONS. THEY ARE NOT INTENDED TO BE USED IN ENGINEERING DESIGN AND DO NOT NEGATE THE NEED FOR A FIELD SURVEY. THE WESTCHESTER COUNTY GIS DATASET CONTAINS CONTOUR LINES MODELED AT A TWO FOOT INTERVAL. THE SOURCE INFORMATION USED IN THE COLLECTION OF THE DATASET WAS PART OF THE NEW YORK STATE DIGITAL ORTHOIMAGERY PROGRAM; PHOTOS TAKEN IN APRIL 2004. VERTICAL DATUM IS NAVD88.
THE COUNTY OF WESTCHESTER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE COMPLETENESS OR ACCURACY OF THE DATA AND ASSUMES NO LIABILITY WHATSOEVER FOR ANY PRODUCT OR ANALYSIS DERIVED FROM OR BASED ON THE DATA.

Drawn: BMS	Approved: JS
Scale:	1" = 150'
Date:	10/23/2019
Project No:	17088
17088-DRAINAGE	EDA-OVERALL
Drawing No:	DA-1

NOT FOR CONSTRUCTION



PROPOSED DRAINAGE LEGEND

- EXISTING GRADE
- PROPOSED FINISHED GRADE
- FLAGGED WETLANDS WITH FLAG NUMBERS
- PROPOSED DITCH OR SWALE
- EXISTING STONE WALL
- WATERSHED BOUNDARY LINE
- LIMIT OF SOIL GROUPS LINE
- TIME OF CONCENTRATION LINE
- PROPOSED BUILDING LINE
- PROPOSED CONCRETE CURB
- PROPOSED MANHOLE (MH)
- LI PROPOSED LAWN INLET (LI)
- DI PROPOSED DRAIN INLET (DI)
- CI PROPOSED COMBINATION INLET (CI)
- PROPOSED HEADWALL (HW)
- PROPOSED STORM DRAIN LINE
- PROPOSED WATER QUALITY STRUCTURE
- RIP RAP ENERGY DISSIPATOR

NwC (B) SOIL DESIGNATION AND HYDROLOGIC SOIL GROUP

SOIL TYPE TABLE

DESIGNATION	HYDROLOGIC GROUP	DESCRIPTION
BnB	C	BATH–NASSAU CHANNERY SILT LOAMS, 3 TO 8 PERCENT SLOPES
BnC	C	BATH–NASSAU CHANNERY SILT LOAMS, 8 TO 15 PERCENT SLOPES
UH	A	UDORTHENTS, SMOOTHED
ESB	D	ERIE EXTREMELY STONY SOILS, GENTLY SLOPING
MdB	D	MARDIN GRAVELLY SILT LOAM, 3 TO 8 PERCENT SLOPES
MdC	D	MARDIN GRAVELLY SILT LOAM, 8 TO 15 PERCENT SLOPES
RSD	D	ROCK OUTCROP–NASSAU COMPLEX, HILLY
NAD	D	NASSAU CHANNERY SILT LOAM, 15–25 PERCENT SLOPES
ErB	D	ERIE GRAVELLY SILT LOAM, 3 TO 8 PERCENT SLOPES

No.	Revision	Date	By

Previous Editions Obsolete

APPLICANT:
FARRELL COMMUNITIES AT OVERLOOK PONDS LLC
P.O. BOX 14
BRIDGEHAMPTON, NY 11932

JMC Planning, Engineering, Landscape Architecture & Land Surveying, PLLC
JMC Site Development Consultants, LLC
John Meyer Consulting, Inc.
120 BEDFORD ROAD • ARMONK, NY 10504
voice 914.273.5225 • fax 914.273.2102
www.jmcpllc.com

JMC

PROPOSED OVERALL DRAINAGE AREA MAP

OVERLOOK FARMS A FARRELL COMMUNITY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

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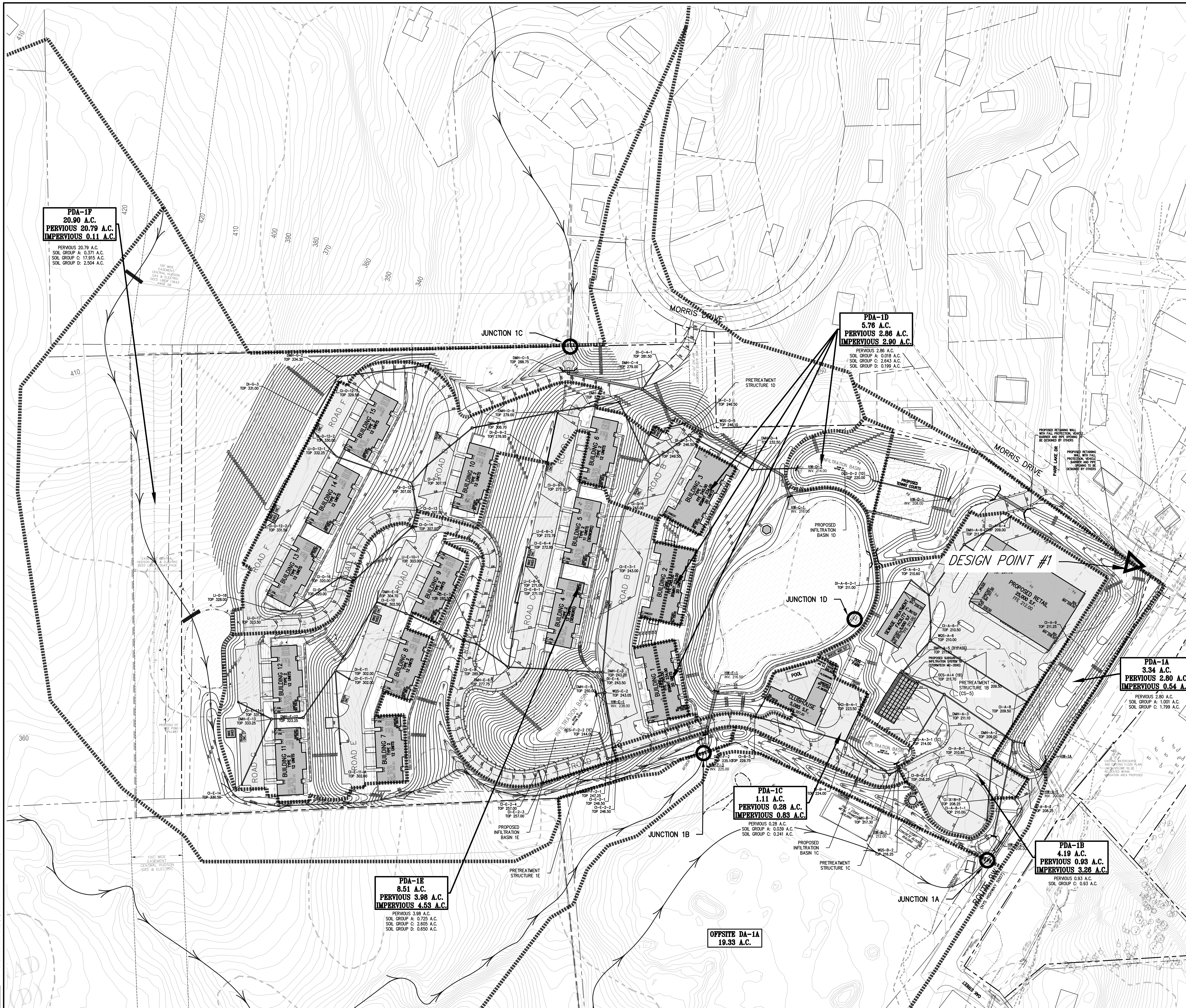
Drawn: BMS	Approved: JS
Scale:	1" = 150'
Date:	10/23/2019
Project No:	17088
17088-DRAINAGE	PDA-OVERALL
Drawing No:	DA-2A

NOT FOR CONSTRUCTION



PROPOSED DRAINAGE LEGEND

- EXISTING GRADE
- PROPOSED FINISHED GRADE
- FLAGGED WETLANDS WITH FLAG NUMBERS
- PROPOSED DITCH OR SWALE
- EXISTING STONE WALL
- WATERSHED BOUNDARY LINE
- LIMIT OF SOIL GROUPS LINE
- TIME OF CONCENTRATION LINE
- PROPOSED BUILDING LINE
- PROPOSED CONCRETE CURB
- PROPOSED MANHOLE (MH)
- PROPOSED LAWN INLET (LI)
- PROPOSED DRAIN INLET (DI)
- PROPOSED COMBINATION INLET (CI)
- PROPOSED HEADWALL (HW)
- PROPOSED STORM DRAIN LINE
- PROPOSED WATER QUALITY STRUCTURE
- RIP RAP ENERGY DISSIPATOR

NwC (B) SOIL DESIGNATION AND HYDROLOGIC SOIL GROUP

SOIL TYPE TABLE

DESIGNATION	HYDROLOGIC GROUP	DESCRIPTION
BnB	C	BATH–NASSAU CHANNERY SILT LOAMS, 3 TO 8 PERCENT SLOPES
BnC	C	BATH–NASSAU CHANNERY SILT LOAMS, 8 TO 15 PERCENT SLOPES
UH	A	UDORTHENTS, SMOOTHED
ESB	D	ERIE EXTREMELY STONY SOILS, GENTLY SLOPING
MdB	D	MARDIN GRAVELLY SILT LOAM, 3 TO 8 PERCENT SLOPES
MdC	D	MARDIN GRAVELLY SILT LOAM, 8 TO 15 PERCENT SLOPES
RSD	D	ROCK OUTCROP–NASSAU COMPLEX, HILLY
NAD	D	NASSAU CHANNERY SILT LOAM, 15–25 PERCENT SLOPES
ErB	D	ERIE GRAVELLY SILT LOAM, 3 TO 8 PERCENT SLOPES

No.	Revision	Date	By

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PROPOSED SITE DRAINAGE AREA MAP

OVERLOOK FARMS A FARRELL COMMUNITY
5417 ROUTE 9W
TOWN OF NEWBURGH, NEW YORK

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Drawn: BMS	Approved: JS		
Scale:	1" = 60'		
Date:	10/23/2019		
Project No:	17088		
17088-DRAINAGE	PDA-SITE	--	
Drawing No:	DA-2B		

LJA Leonard Jackson Associates Consulting Engineers
26 Firemens Memorial Drive . Pomona, New York 10970 . (845) 354-4382 . FAX (845) 354-4401

Report

Overlook Farm Hydrologic and Hydraulic Analyses Tributary to Lattintown Creek

Contents

LJA Leonard Jackson Associates Consulting Engineers

26 Firemens Memorial Drive . Pomona, New York 10970 . (845) 354-4382 . FAX (845) 354-4401

Summary Letter

LJA Leonard Jackson Associates Consulting Engineers

26 Firemens Memorial Drive . Pomona, New York 10970 . (845) 354-4382 . FAX (845) 354-4401

June 22, 2021

JMC
120 Bedford Road
Armonk, NY 10504

Attn: David Lombardi, Senior Project manager

Re: **Overlook Farm Hydrologic and Hydraulic Analyses**
Tributary to Lattintown Creek
LJA # 20049

Dear Mr. Lombardi,

We have prepared Hydrologic and Hydraulic analyses of the Tributary to Lattintown Creek that passes through the Overlook project site. This site is mapped as a Zone A Special Flood Hazard Area within the Flood Insurance Rate Map (FIRM) prepared by the Federal Emergency Management Agency (FEMA).

The object of the analyses was to define flood elevations through the site for design storms ranging from the one year through 500-year frequencies in order to evaluate the following:

1. Determine flood elevations to assist JMC in defining building floor elevations that meet the requirements of the Town of Newburgh Floodplain Ordinance and New York State Department of Environmental Conservation.

2. Determine if the proposed project affects downstream flooding potential.

3. Evaluate access to the Overlook Farm site during major flooding events.

Conclusions

1. All of the proposed buildings on the Overlook Farm site will be set above Base (100-year) Flood Elevations of the Lattintown Creek Tributary. The sewage treatment plant has been set at an elevation that is more than four feet higher than the peak 500-year flood elevation of the Lattintown Creek Tributary thereby meeting Town, State and Federal elevation requirements.

2. The proposed project provides onsite detention to eliminate the hydrologic effects of increased impervious surfaces thereby zero increase in peak rate of runoff from the project site. The proposed onsite channel improvement reduces the flooding potential on the site and at Route 9W. The elimination of onsite flooding has a diminimus effect on discharge rates downstream on the Lattintown Creek Tributary.

3. There are three means of vehicular access onto the Overlook Farms project site as follows.

    a) The front entrance driveway on Route 9W.
    b) The driveway on Morris Drive accessed via Route 9W.
    c) The emergency access driveway on Morris Drive accessed via Parr Meadow Drive.

    Each of these roadways will be overtopped by Lattintown Creek Tributary flooding during a 100-year storm event and during lesser events for short periods of time. The depth of overtopping and its duration are summarized in the attached tables.

    As an overview, the ground clearance of most cars is approximately 6 inches. Emergency vehicles (fire trucks) have about twelve inches ground clearance or more. The depth of overtopping and duration tables attached give an indication of access and limitations to and from the Overlook site. Fire trucks will always have access even during the peak of a 100-year flood event. Automobiles will not have access during a 100-year flood event for approximately 35 minutes when Parr Meadow Drive is overtopped at the peak of the flood event. The access limitations resulting from flooding are therefore minor.

We note that the proposed channel improvement on the Overlook Farms site will reduce the frequency and duration of flood overtopping of Route 9W at the site's front entrance driveway. There is no practicable way to reduce overtopping at Morris Drive as a private undersized 6' diameter pipe is located immediately downstream of, and blocking, the face of the larger 6' x 10.8' pipe arch under Morris Drive.

Attached are summary tables and our report documenting the above.

Table 1 – Duration and Depth of overtopping at Parr Meadow Drive
Table 2 – Duration and Depth of overtopping at Route 9W
Table 3 – Duration and Depth of overtopping at Morris Drive

Very truly yours,

LEONARD JACKSON ASSOCIATES
Leonard Jackson, P.E.
LJ/ks
P:\PROJECTS\20\20049\MGMTDOCS\Report\2021-6-15 David Lombardi.doc

Overlook Farms
6/15/2021

Table 1

Duration and Depth of overtopping at Parr Meadow Drive

Frequency (Year)	Water Surface Elevation (ft)	Low Point on Road (ft)	Max Depth (ft)	6 Inch Depth Duration (Hours)	1 Foot Depth Duration (Hours)	1.5 Foot Depth Duration (Hours)
500	190.06	188.00	2.06	3	2.3	1.5
100	189.12	188.00	1.12	1.5	0.6	0
50	188.69	188.00	0.69	0.75	0	0
25	188.22	188.00	0.22	0	0	0
10	185.05	188.00	0.00	0	0	0
5	184.28	188.00	0.00	0	0	0
2	183.41	188.00	0.00	0	0	0
1	182.80	188.00	0.00	0	0	0

Overlook Farms
6/15/2021

Table 2

Duration and Depth of overtopping at Route 9W

Frequency (Year)	**Water Surface Elevation (ft)**	**Low Point on Road (ft)**	**Max Depth (ft)**	**6 Inch Depth Duration (Hours)**	**1 Foot Depth Duration (Hours)**	**1.5 Foot Depth Duration (Hours)**
500	210.42	207.90	2.52	3.5	3	2.25
100	209.47	207.90	1.57	2.1	1.6	0.5
50	209.06	207.90	1.16	1.4	0.7	0
25	208.35	207.90	0.45	0	0	0
10	207.91	207.90	0.01	0	0	0
5	204.07	207.90	0.00	0	0	0
2	203.29	207.90	0.00	0	0	0
1	202.73	207.90	0.00	0	0	0

Overlook Farms

6/15/2021 Table 3

Duration and Depth of overtopping at Morris Drive

Frequency (Year)	Water Surface Elevation (ft)	Low Point on Road (ft)	Max Depth (ft)	6 Inch Depth Duration (Hours)	1 Foot Depth Duration (Hours)	1.5 Foot Depth Duration (Hours)
500	204.75	201.30	3.45	5.5	4.8	3.9
100	203.93	201.30	2.63	3.9	3.25	2.4
50	203.48	201.30	2.18	3.4	2.6	1.8
25	202.97	201.30	1.67	2.6	1.9	0.9
10	202.36	201.30	1.06	1.5	0.375	0
5	201.70	201.30	0.40	0	0	0
2	198.73	201.30	0.00	0	0	0
1	197.11	201.30	0.00	0	0	0

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Methodology

Methodology

1) Hydrologic Analyses were prepared utilizing SCS methodology incorporated within the HEC-HMS USACOE Hydrologic Analysis Program.
2) Hydraulic Analyses were prepared utilizing the HEC-RAS USACOE Hydraulic Analysis program.

   Cross Sections were derived from existing condition topographic mapping of the project site and available offsite topography. Post-project condition cross-sections were derived from JMC grading plans.

3) Overtopping Duration analyses was prepared as follows:

   a) Runoff hydrographs were prepared for each frequency analyzed.
   b) Elevation versus discharge at each roadway was obtained by running the peak discharge for each frequency analyzed utilizing HEC-RAS pre- and post-project models yielding flood overtopping depths at each roadway for each discharge rate.
   c) The discharge rates for 6", 12", and 18" overtopping depths were defined.
   d) Utilizing each discharge rate for an overtopping depth, the duration of that discharge rate is defined by the runoff hydrograph for each frequency.

4) The Downstream Hydrologic Effect of the project was obtained by routing the 100-year runoff hydrograph through the volume versus discharge relationship obtained from the multiple frequency HEC-RAS runs with the cumulative flood storage volumes obtained from the uppermost cross-section in the HEC-RAS model for pre- and post-project conditions. The difference in routed peak discharges was an increase of 0.1% (1737.3 cfs post-project compared to 1735.1 cfs pre-project).

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HEC-RAS Summary
Hydraulic Output
1 year through 500 year

HEC-RAS Plan: Existing_2021-6-10 River: Trib Reach: Trib

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Head	Vel Chnl	Vel Total	Frctn Loss	C & E Loss	Flow Area	Volume	Q Weir	Q Culv Group
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft)	(ft/s)	(ft/s)	(ft)	(ft)	(sq ft)	(acre-ft)	(cfs)	(cfs)
Trib	3417	1yr	213.0	206.00	212.14		212.17	0.000112	0.03	1.42	1.35	0.00	0.00	157	2.60		
Trib	3417	2yr	331.0	206.00	212.60		212.66	0.000193	0.06	1.98	1.79	0.01	0.01	185	3.68		
Trib	3417	5yr	522.0	206.00	213.05		213.16	0.000339	0.11	2.77	2.30	0.01	0.02	227	5.69		
Trib	3417	10yr	713.0	206.00	213.39		213.56	0.000475	0.17	3.42	2.67	0.02	0.03	267	7.79		
Trib	3417	25yr	1042.0	206.00	213.80		214.06	0.000720	0.26	4.40	3.26	0.03	0.05	320	10.79		
Trib	3417	50yr	1358.0	206.00	214.07		214.43	0.000975	0.36	5.26	3.79	0.04	0.07	358	13.53		
Trib	3417	100yr	1738.0	206.00	214.33		214.81	0.001291	0.48	6.21	4.38	0.05	0.09	396	16.53		
Trib	3417	500yr	2966.0	206.00	214.92		215.84	0.002335	0.91	8.83	6.04	0.09	0.17	491	23.93		
Trib	3351	1yr	213.0	206.00	212.14		212.16	0.000054	0.01	1.01	0.85	0.00	0.00	250	2.30		
Trib	3351	2yr	331.0	206.00	212.61		212.64	0.000083	0.02	1.33	1.06	0.00	0.00	313	3.31		
Trib	3351	5yr	522.0	206.00	213.09		213.13	0.000133	0.04	1.78	1.37	0.00	0.00	381	5.24		
Trib	3351	10yr	713.0	206.00	213.45		213.51	0.000181	0.06	2.16	1.64	0.01	0.00	435	7.27		
Trib	3351	25yr	1042.0	206.00	213.89		213.98	0.000269	0.09	2.77	2.07	0.01	0.00	503	10.18		
Trib	3351	50yr	1358.0	206.00	214.19		214.33	0.000387	0.14	3.42	2.45	0.01	0.01	554	12.85		
Trib	3351	100yr	1738.0	206.00	214.48		214.67	0.000515	0.19	4.06	2.85	0.02	0.01	611	15.79		
Trib	3351	500yr	2966.0	206.00	215.23		215.58	0.000872	0.35	5.65	3.82	0.03	0.01	777	22.99		
Trib	3322	1yr	213.0	204.98	212.14	207.23	212.16	0.000081	0.02	1.14	1.02			210	2.14		
Trib	3322	2yr	331.0	204.98	212.60	207.83	212.63	0.000123	0.03	1.50	1.26			263	3.11		
Trib	3322	5yr	522.0	204.98	213.07	208.61	213.12	0.000198	0.06	2.03	1.63			320	4.99		
Trib	3322	10yr	713.0	204.98	213.42	209.23	213.50	0.000269	0.08	2.47	1.94			367	6.99		
Trib	3322	25yr	1042.0	204.98	213.84	210.11	213.97	0.000403	0.13	3.17	2.44			428	9.86		
Trib	3322	50yr	1358.0	204.98	214.08	210.88	214.30	0.000661	0.22	4.17	2.89			471	12.49		
Trib	3322	100yr	1738.0	204.98	214.37	211.73	214.65	0.000810	0.27	4.75	3.22			540	15.37		
Trib	3322	500yr	2966.0	204.98	215.13	213.44	215.54	0.001171	0.41	6.15	4.06			730	22.45		
Trib	3299 Oak St.	1yr	213.0													23.31	189.69
Trib	3299 Oak St.	2yr	331.0													137.76	193.24
Trib	3299 Oak St.	5yr	522.0													332.96	189.04
Trib	3299 Oak St.	10yr	713.0													535.41	177.59
Trib	3299 Oak St.	25yr	1042.0													839.66	202.34
Trib	3299 Oak St.	50yr	1358.0													1144.54	213.46
Trib	3299 Oak St.	100yr	1738.0													1510.08	227.93
Trib	3299 Oak St.	500yr	2966.0													2720.03	245.97
Trib	3279	1yr	213.0	204.98	211.07		211.11	0.000232	0.04	1.72	1.56	0.01	0.00	137	2.08		
Trib	3279	2yr	331.0	204.98	211.51		211.58	0.000359	0.08	2.30	1.96	0.01	0.00	169	3.00		
Trib	3279	5yr	522.0	204.98	212.04		212.17	0.000537	0.13	3.04	2.40	0.01	0.00	218	4.83		
Trib	3279	10yr	713.0	204.98	212.55		212.70	0.000605	0.15	3.45	2.56	0.02	0.00	278	6.78		
Trib	3279	25yr	1042.0	204.98	212.74		213.02	0.001085	0.28	4.73	3.42	0.03	0.00	304	9.57		
Trib	3279	50yr	1358.0	204.98	212.93		213.35	0.001597	0.43	5.87	4.02	0.04	0.00	338	12.13		
Trib	3279	100yr	1738.0	204.98	213.08	212.27	213.72	0.002360	0.64	7.26	4.69	0.06	0.03	370	14.93		
Trib	3279	500yr	2966.0	204.98	213.68	213.68	214.67	0.003606	0.99	9.58	5.76	0.09	0.01	515	21.78		
Trib	3253	1yr	213.0	206.00	211.06		211.11	0.000226	0.05	1.73	1.60	0.04	0.01	133	2.00		
Trib	3253	2yr	331.0	206.00	211.49		211.57	0.000357	0.08	2.33	2.04	0.06	0.02	163	2.90		
Trib	3253	5yr	522.0	206.00	212.01		212.15	0.000554	0.14	3.15	2.52	0.10	0.04	207	4.70		
Trib	3253	10yr	713.0	206.00	212.50		212.68	0.000661	0.18	3.68	2.58	0.13	0.07	276	6.61		
Trib	3253	25yr	1042.0	206.00	212.66		212.99	0.001163	0.32	4.98	3.38	0.16	0.02	308	9.39		
Trib	3253	50yr	1358.0	206.00	212.88		213.31	0.001536	0.43	5.88	3.86	0.21	0.02	352	11.92		
Trib	3253	100yr	1738.0	206.00	213.08		213.64	0.001983	0.56	6.84	4.41	0.26	0.01	394	14.70		
Trib	3253	500yr	2966.0	206.00	213.57	213.53	214.52	0.003303	0.95	9.33	5.94	0.36	0.01	499	21.48		
Trib	3182	1yr	213.0	203.93	210.87		211.05	0.003730	0.19	3.46	3.46	0.54	0.21	62	1.84		
Trib	3182	2yr	331.0	203.93	211.18		211.49	0.005428	0.31	4.44	4.44	0.46	0.01	74	2.71		
Trib	3182	5yr	522.0	203.93	211.46		212.01	0.008824	0.55	5.98	5.98	0.66	0.06	87	4.46		
Trib	3182	10yr	713.0	203.93	211.64	211.59	212.49	0.012629	0.85	7.39	7.39	0.82	0.12	96	6.30		

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Head	Vel Chnl	Vel Total	Frctn Loss	C & E Loss	Flow Area	Volume	Q Weir	Q Culv Group
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft)	(ft/s)	(ft/s)	(ft)	(ft)	(sq ft)	(acre-ft)	(cfs)	(cfs)
Trib	3182	25yr	1042.0	203.93	212.30	212.30	212.80	0.006508	0.50	6.22	4.85	0.57	0.01	215	8.96		
Trib	3182	50yr	1358.0	203.93	212.45	212.45	213.08	0.007840	0.63	7.11	5.52	0.63	0.00	246	11.43		
Trib	3182	100yr	1738.0	203.93	212.66	212.66	213.36	0.008234	0.71	7.68	6.00	0.64	0.00	290	14.13		
Trib	3182	500yr	2966.0	203.93	213.23	213.23	214.15	0.008574	0.92	8.91	7.21	0.61	0.01	411	20.72		
Trib	3120	1yr	213.0	203.52	208.04	208.04	210.31	0.039353	2.27	12.08	12.08	0.47	0.58	18	1.79		
Trib	3120	2yr	331.0	203.52	210.73	210.73	211.01	0.011195	0.28	5.57	3.90	0.38	0.03	85	2.59		
Trib	3120	5yr	522.0	203.52	210.94	210.94	211.30	0.013154	0.36	6.04	4.66	0.46	0.04	112	4.32		
Trib	3120	10yr	713.0	203.52	211.11	211.11	211.54	0.014116	0.44	6.25	5.26	0.46	0.05	136	6.14		
Trib	3120	25yr	1042.0	203.52	211.36	211.36	211.92	0.014549	0.56	6.35	5.99	0.55	0.08	174	8.68		
Trib	3120	50yr	1358.0	203.52	211.59	211.59	212.24	0.014082	0.64	6.25	6.44	0.40	0.03	211	11.10		
Trib	3120	100yr	1738.0	203.52	211.85	211.85	212.58	0.013392	0.73	6.09	6.84	0.33	0.00	254	13.75		
Trib	3120	500yr	2966.0	203.52	212.48	212.48	213.49	0.011745	1.01	5.70	8.00	0.36	0.01	371	20.16		
Trib	3066	1yr	213.0	203.19	206.18		206.53	0.003679	0.34	4.70	4.70	0.23	0.00	45	1.75		
Trib	3066	2yr	331.0	203.19	206.68		207.21	0.004750	0.54	5.87	5.87	0.32	0.01	56	2.51		
Trib	3066	5yr	522.0	203.19	207.35		208.15	0.005733	0.80	7.17	7.17	0.35	0.01	73	4.20		
Trib	3066	10yr	713.0	203.19	208.10		209.02	0.005551	0.92	7.70	7.70	0.28	0.03	93	5.99		
Trib	3066	25yr	1042.0	203.19	208.70	208.32	210.09	0.007413	1.39	9.45	9.45	0.28	0.17	110	8.50		
Trib	3066	50yr	1358.0	203.19	209.92	209.92	210.88	0.004414	0.96	8.22	6.57	0.20	0.08	207	10.84		
Trib	3066	100yr	1738.0	203.19	210.52	210.52	211.28	0.003416	0.76	7.86	5.40	0.19	0.00	322	13.39		
Trib	3066	500yr	2966.0	203.19	211.18	211.18	212.16	0.004244	0.98	9.51	6.47	0.24	0.00	459	19.64		
Trib	3013	1yr	213.0	204.00	205.90		206.29	0.005343	0.39	4.99	4.99	0.33	0.01	43	1.69		
Trib	3013	2yr	331.0	204.00	206.20	205.95	206.87	0.007965	0.68	6.60	6.60	0.41	0.01	50	2.44		
Trib	3013	5yr	522.0	204.00	206.90		207.79	0.007784	0.89	7.58	7.58	0.22	0.16	69	4.11		
Trib	3013	10yr	713.0	204.00	207.87		208.71	0.005082	0.83	7.32	7.28	0.12	0.17	98	5.88		
Trib	3013	25yr	1042.0	204.00	208.83	208.83	209.64	0.003844	0.81	7.53	5.64	0.09	0.17	185	8.32		
Trib	3013	50yr	1358.0	204.00	209.32	209.32	210.01	0.003269	0.70	7.48	4.90	0.09	0.13	277	10.53		
Trib	3013	100yr	1738.0	204.00	209.60	209.60	210.36	0.003573	0.76	8.13	5.22	0.09	0.14	333	12.97		
Trib	3013	500yr	2966.0	204.00	210.27	210.27	211.26	0.004401	0.99	9.83	6.33	0.10	0.19	469	19.04		
Trib	2971	1yr	213.0	203.99	205.42	205.42	205.94	0.013701	0.53	5.82	5.82	0.23	0.10	37	1.65		
Trib	2971	2yr	331.0	203.99	205.80	205.80	206.46	0.012834	0.66	6.51	6.51	0.16	0.14	51	2.39		
Trib	2971	5yr	522.0	203.99	207.05		207.41	0.003781	0.36	4.83	4.83	0.06	0.06	108	4.03		
Trib	2971	10yr	713.0	203.99	208.17		208.42	0.001790	0.25	4.04	3.69	0.04	0.03	193	5.74		
Trib	2971	25yr	1042.0	203.99	208.77		209.01	0.001515	0.24	4.24	3.40	0.04	0.02	307	8.09		
Trib	2971	50yr	1358.0	203.99	209.17		209.43	0.001464	0.26	4.50	3.50	0.04	0.02	388	10.21		
Trib	2971	100yr	1738.0	203.99	209.55		209.83	0.001454	0.28	4.78	3.71	0.04	0.01	468	12.58		
Trib	2971	500yr	2966.0	203.99	210.49		210.86	0.001533	0.37	5.62	4.45	0.05	0.00	666	18.50		
Trib	2928	1yr	213.0	202.00	204.62		204.83	0.002716	0.21	3.67	3.67	0.14	0.01	58	1.61		
Trib	2928	2yr	331.0	202.00	205.56		205.76	0.001648	0.20	3.62	3.57	0.12	0.01	93	2.32		
Trib	2928	5yr	522.0	202.00	207.13		207.29	0.000699	0.15	3.25	2.80	0.05	0.01	187	3.88		
Trib	2928	10yr	713.0	202.00	208.20		208.34	0.000508	0.14	3.24	2.32	0.03	0.02	308	5.49		
Trib	2928	25yr	1042.0	202.00	208.78		208.95	0.000593	0.17	3.75	2.54	0.03	0.03	411	7.73		
Trib	2928	50yr	1358.0	202.00	209.17		209.37	0.000676	0.20	4.19	2.80	0.04	0.03	485	9.79		
Trib	2928	100yr	1738.0	202.00	209.54		209.78	0.000775	0.24	4.66	3.12	0.04	0.04	556	12.08		
Trib	2928	500yr	2966.0	202.00	210.44		210.81	0.001058	0.37	5.94	4.05	0.06	0.05	732	17.81		
Trib	2857	1yr	213.0	201.10	204.49	202.73	204.68	0.001492	0.19	3.49	3.49			61	1.51		
Trib	2857	2yr	331.0	201.10	205.34	203.28	205.63	0.001881	0.29	4.34	4.34			76	2.18		
Trib	2857	5yr	522.0	201.10	207.10	204.06	207.23	0.000728	0.13	3.30	2.09			250	3.53		
Trib	2857	10yr	713.0	201.10	208.23	204.74	208.29	0.000352	0.06	2.59	1.55			459	4.88		
Trib	2857	25yr	1042.0	201.10	208.81	206.85	208.89	0.000388	0.08	2.87	1.79			582	6.94		
Trib	2857	50yr	1358.0	201.10	209.21	207.15	209.30	0.000446	0.09	3.18	2.04			666	8.87		
Trib	2857	100yr	1738.0	201.10	209.58	207.48	209.70	0.000521	0.12	3.55	2.33			746	11.04		
Trib	2857	500yr	2966.0	201.10	210.49	208.35	210.70	0.000750	0.21	4.57	3.14			946	16.48		

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Head	Vel Chnl	Vel Total	Frctn Loss	C & E Loss	Flow Area	Volume	Q Weir	Q Culv Group
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft)	(ft/s)	(ft/s)	(ft)	(ft)	(sq ft)	(acre-ft)	(cfs)	(cfs)
Trib	2821 Route 9W	1yr	213.0														213.00
Trib	2821 Route 9W	2yr	331.0														331.00
Trib	2821 Route 9W	5yr	522.0														522.00
Trib	2821 Route 9W	10yr	713.0													78.43	634.57
Trib	2821 Route 9W	25yr	1042.0													418.11	623.89
Trib	2821 Route 9W	50yr	1358.0													744.89	613.11
Trib	2821 Route 9W	100yr	1738.0													1129.85	608.15
Trib	2821 Route 9W	500yr	2966.0													2354.26	611.74
Trib	2775	1yr	213.0	200.71	204.42		204.49	0.000459	0.07	2.33	2.03	0.14	0.06	105	1.43		
Trib	2775	2yr	331.0	200.71	205.10		205.20	0.000521	0.10	2.79	2.30	0.16	0.07	144	2.09		
Trib	2775	5yr	522.0	200.71	205.92		206.06	0.000582	0.14	3.32	2.53	0.12	0.03	206	3.42		
Trib	2775	10yr	713.0	200.71	206.34		206.56	0.000853	0.21	4.25	2.83	0.17	0.04	252	4.69		
Trib	2775	25yr	1042.0	200.71	207.00		207.27	0.001028	0.27	5.04	2.95	0.20	0.05	353	6.59		
Trib	2775	50yr	1358.0	200.71	207.48		207.77	0.001083	0.29	5.44	3.00	0.19	0.04	453	8.40		
Trib	2775	100yr	1738.0	200.71	207.91		208.21	0.001138	0.30	5.81	3.12	0.20	0.04	558	10.46		
Trib	2775	500yr	2966.0	200.71	208.89		209.22	0.001192	0.33	6.49	3.56	0.23	0.07	832	15.60		
Trib	2663	1yr	213.0	201.95	203.59	203.59	204.28	0.012434	0.70	6.70	6.70	0.79	0.03	32	1.25		
Trib	2663	2yr	331.0	201.95	204.12	204.12	204.97	0.010806	0.85	7.39	7.33	0.70	0.04	45	1.85		
Trib	2663	5yr	522.0	201.95	205.46		205.90	0.003107	0.44	5.67	4.74	0.34	0.11	110	3.02		
Trib	2663	10yr	713.0	201.95	205.74		206.34	0.003894	0.60	6.73	5.43	0.28	0.03	131	4.20		
Trib	2663	25yr	1042.0	201.95	206.28	205.95	207.02	0.004262	0.75	7.77	5.78	0.29	0.02	180	5.92		
Trib	2663	50yr	1358.0	201.95	206.87	206.59	207.53	0.003447	0.66	7.69	5.14	0.28	0.04	264	7.50		
Trib	2663	100yr	1738.0	201.95	207.31	207.04	207.98	0.003320	0.67	8.03	5.04	0.26	0.03	345	9.33		
Trib	2663	500yr	2966.0	201.95	207.93	207.74	208.92	0.004703	0.99	10.34	6.03	0.31	0.02	492	13.95		
Trib	2591	1yr	213.0	200.00	202.28	202.28	203.26	0.009657	0.97	8.17	7.36	0.18	0.26	29	1.20		
Trib	2591	2yr	331.0	200.00	202.99	202.99	204.21	0.008659	1.22	9.29	8.06	0.21	0.32	41	1.78		
Trib	2591	5yr	522.0	200.00	203.89	203.89	205.44	0.008078	1.56	10.70	8.90	0.27	0.39	59	2.88		
Trib	2591	10yr	713.0	200.00	205.14	205.14	206.03	0.003849	0.89	8.91	5.67	0.25	0.17	126	3.99		
Trib	2591	25yr	1042.0	200.00	205.81	205.81	206.71	0.003755	0.90	9.56	5.74	0.27	0.14	181	5.61		
Trib	2591	50yr	1358.0	200.00	206.21	206.21	207.22	0.004149	1.01	10.51	5.92	0.22	0.18	229	7.09		
Trib	2591	100yr	1738.0	200.00	206.74	206.74	207.69	0.003828	0.94	10.67	5.55	0.29	0.08	313	8.78		
Trib	2591	500yr	2966.0	200.00	207.67	207.67	208.60	0.003820	0.92	11.62	5.65	0.44	0.08	525	13.09		
Trib	2504	1yr	213.0	198.00	201.22		201.32	0.000897	0.10	2.55	2.55	0.09	0.00	83	1.09		
Trib	2504	2yr	331.0	198.00	201.78		201.94	0.001112	0.16	3.19	3.19	0.12	0.00	104	1.63		
Trib	2504	5yr	522.0	198.00	202.44		202.69	0.001668	0.25	4.03	4.03	0.20	0.01	129	2.70		
Trib	2504	10yr	713.0	198.00	202.92		203.26	0.002226	0.34	4.69	4.69	0.29	0.04	152	3.71		
Trib	2504	25yr	1042.0	198.00	203.66		204.12	0.002608	0.45	5.41	5.41	0.39	0.07	193	5.24		
Trib	2504	50yr	1358.0	198.00	204.76	202.63	205.18	0.001740	0.41	5.16	4.98	0.39	0.21	273	6.59		
Trib	2504	100yr	1738.0	198.00	204.71		205.40	0.002981	0.69	6.70	6.48	0.37	0.04	268	8.21		
Trib	2504	500yr	2966.0	198.00	204.97	204.84	206.73	0.007031	1.76	10.71	10.22	0.54	0.24	290	12.29		
Trib	2406	1yr	213.0	198.00	201.12		201.23	0.000951	0.11	3.10	2.42	0.15	0.05	88	0.90		
Trib	2406	2yr	331.0	198.00	201.64		201.82	0.001252	0.18	3.98	3.05	0.17	0.05	109	1.39		
Trib	2406	5yr	522.0	198.00	202.08		202.48	0.002482	0.39	6.06	4.09	0.24	0.02	127	2.40		
Trib	2406	10yr	713.0	198.00	202.24		202.93	0.004180	0.69	8.07	5.19	0.29	0.05	137	3.39		
Trib	2406	25yr	1042.0	198.00	202.46	201.87	203.65	0.006879	1.19	10.72	6.83	0.31	0.23	152	4.85		
Trib	2406	50yr	1358.0	198.00	202.03	201.83	204.57	0.016263	2.54	15.37	10.89	0.37	0.65	125	6.14		
Trib	2406	100yr	1738.0	198.00	203.92	203.92	204.99	0.004985	1.07	11.09	5.67	0.25	0.19	307	7.56		
Trib	2406	500yr	2966.0	198.00	204.98	204.98	205.95	0.004409	0.96	11.68	5.68	0.27	0.10	522	11.37		
Trib	2340	1yr	213.0	198.00	200.39	200.39	201.03	0.010393	0.63	6.44	6.04	0.67	0.02	35	0.80		
Trib	2340	2yr	331.0	198.00	200.92	200.92	201.60	0.008516	0.67	6.85	5.79	0.27	0.09	57	1.27		
Trib	2340	5yr	522.0	198.00	201.61	201.61	202.22	0.005766	0.61	6.91	4.63	0.08	0.15	113	2.22		

HEC-RAS Plan: Existing_2021-6-10 River: Trib Reach: Trib (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Head	Vel Chnl	Vel Total	Frctn Loss	C & E Loss	Flow Area	Volume	Q Weir	Q Culv Group
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft)	(ft/s)	(ft/s)	(ft)	(ft)	(sq ft)	(acre-ft)	(cfs)	(cfs)
Trib	2340	10yr	713.0	198.00	202.07	202.00	202.59	0.004547	0.52	6.84	4.16	0.07	0.13	171	3.15		
Trib	2340	25yr	1042.0	198.00	202.69		203.11	0.003366	0.42	6.65	3.92	0.07	0.10	265	4.53		
Trib	2340	50yr	1358.0	198.00	203.18		203.56	0.002784	0.38	6.57	3.87	0.07	0.08	350	5.78		
Trib	2340	100yr	1738.0	198.00	203.54		203.96	0.002897	0.43	7.08	4.17	0.08	0.08	416	7.00		
Trib	2340	500yr	2966.0	198.00	204.27		204.90	0.003765	0.63	8.92	5.24	0.13	0.11	566	10.53		
Trib	2280	1yr	213.0	196.00	198.20	198.20	199.08	0.011879	0.88	7.52	7.48	0.06	0.23	28	0.76		
Trib	2280	2yr	331.0	196.00	199.85	198.92	200.24	0.002772	0.39	5.23	4.39	0.02	0.09	75	1.17		
Trib	2280	5yr	522.0	196.00	201.65		201.75	0.000566	0.09	3.18	1.75	0.01	0.00	299	1.91		
Trib	2280	10yr	713.0	196.00	202.30		202.39	0.000479	0.08	3.18	1.72	0.01	0.00	414	2.71		
Trib	2280	25yr	1042.0	196.00	202.83		202.94	0.000568	0.11	3.68	2.01	0.02	0.00	518	3.94		
Trib	2280	50yr	1358.0	196.00	203.29		203.41	0.000610	0.12	4.00	2.20	0.02	0.01	617	5.04		
Trib	2280	100yr	1738.0	196.00	203.64		203.79	0.000720	0.15	4.51	2.49	0.03	0.01	698	6.16		
Trib	2280	500yr	2966.0	196.00	204.38		204.66	0.001265	0.27	6.39	3.32	0.05	0.02	893	9.43		
Trib	2243	1yr	213.0	192.73	197.71	194.77	197.81	0.000614	0.10	2.53	2.53			84	0.71		
Trib	2243	2yr	331.0	192.73	200.04	195.45	200.13	0.000275	0.08	2.31	2.20			151	1.07		
Trib	2243	5yr	522.0	192.73	201.65	196.33	201.73	0.000226	0.08	2.47	1.75			299	1.65		
Trib	2243	10yr	713.0	192.73	202.27	197.06	202.37	0.000282	0.11	2.91	1.82			391	2.35		
Trib	2243	25yr	1042.0	192.73	202.76	198.06	202.92	0.000406	0.15	3.64	2.14			488	3.49		
Trib	2243	50yr	1358.0	192.73	203.20	198.91	203.38	0.000486	0.18	4.11	2.32			585	4.51		
Trib	2243	100yr	1738.0	192.73	203.53	199.83	203.76	0.000616	0.23	4.74	2.61			665	5.55		
Trib	2243	500yr	2966.0	192.73	204.13	202.78	204.59	0.001228	0.46	6.98	3.52			842	8.65		
Trib	2215 Morris Dr.	1yr	213.0														213.00
Trib	2215 Morris Dr.	2yr	331.0														331.00
Trib	2215 Morris Dr.	5yr	522.0													20.29	501.71
Trib	2215 Morris Dr.	10yr	713.0													169.09	543.91
Trib	2215 Morris Dr.	25yr	1042.0													465.44	576.56
Trib	2215 Morris Dr.	50yr	1358.0													870.42	487.58
Trib	2215 Morris Dr.	100yr	1738.0													1266.00	472.00
Trib	2215 Morris Dr.	500yr	2966.0													2514.14	451.86
Trib	2191	1yr	213.0	192.33	197.09		197.27	0.001031	0.18	3.44	3.41	0.00	0.02	63	0.64		
Trib	2191	2yr	331.0	192.33	199.07		199.26	0.000632	0.19	3.51	3.33	0.00	0.02	99	0.96		
Trib	2191	5yr	522.0	192.33	199.30		199.73	0.001373	0.43	5.31	5.00	0.01	0.04	104	1.48		
Trib	2191	10yr	713.0	192.33	199.52		200.25	0.002268	0.74	6.98	6.52	0.01	0.07	109	2.09		
Trib	2191	25yr	1042.0	192.33	199.71	198.36	201.18	0.004361	1.47	9.88	9.11	0.02	0.14	114	3.08		
Trib	2191	50yr	1358.0	192.33	199.46	199.46	202.19	0.008474	2.72	13.43	12.55	0.03	0.45	108	3.95		
Trib	2191	100yr	1738.0	192.33	201.61	201.61	202.53	0.002654	0.92	9.10	5.30	0.01	0.02	328	4.86		
Trib	2191	500yr	2966.0	192.33	202.62	202.62	203.50	0.002804	0.88	10.08	5.24	0.02	0.01	566	7.59		
Trib	2185	1yr	213.0	191.50	197.12		197.25	0.000575	0.13	3.01	2.75	0.00	0.01	77	0.63		
Trib	2185	2yr	331.0	191.50	199.10		199.24	0.000403	0.13	3.12	2.59	0.00	0.01	128	0.95		
Trib	2185	5yr	522.0	191.50	199.39		199.68	0.000848	0.29	4.64	3.79	0.00	0.01	138	1.47		
Trib	2185	10yr	713.0	191.50	199.67		200.17	0.001396	0.50	6.11	4.76	0.01	0.01	150	2.07		
Trib	2185	25yr	1042.0	191.50	200.03	197.87	201.02	0.002623	0.99	8.62	6.11	0.01	0.00	171	3.06		
Trib	2185	50yr	1358.0	191.50	200.44	199.09	201.66	0.003257	1.22	9.92	6.26	0.01	0.10	217	3.92		
Trib	2185	100yr	1738.0	191.50	201.26	201.26	202.10	0.002446	0.85	9.14	4.95	0.01	0.01	351	4.81		
Trib	2185	500yr	2966.0	191.50	202.08	202.08	203.03	0.002951	0.95	10.62	5.63	0.01	0.01	526	7.51		
Trib	2180	1yr	213.0	191.19	197.04		197.24	0.001183	0.20	3.60	3.52	0.36	0.18	60	0.62		
Trib	2180	2yr	331.0	191.19	199.05		199.23	0.000678	0.18	3.54	3.03	0.23	0.25	109	0.94		
Trib	2180	5yr	522.0	191.19	199.27		199.66	0.001432	0.40	5.27	4.37	0.37	0.01	119	1.45		
Trib	2180	10yr	713.0	191.19	199.53		200.15	0.002197	0.62	6.71	5.34	0.50	0.00	133	2.05		
Trib	2180	25yr	1042.0	191.19	199.92	198.63	200.92	0.003448	1.01	8.73	6.57	0.67	0.06	159	3.04		
Trib	2180	50yr	1358.0	191.19	200.66	200.66	201.54	0.003070	0.89	8.80	5.36	0.56	0.04	253	3.90		
Trib	2180	100yr	1738.0	191.19	201.16	201.16	201.97	0.002910	0.80	8.94	5.06	0.55	0.01	343	4.77		

HEC-RAS Plan: Existing_2021-6-10 River: Trib Reach: Trib (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Head	Vel Chnl	Vel Total	Frctn Loss	C & E Loss	Flow Area	Volume	Q Weir	Q Culv Group
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft)	(ft/s)	(ft/s)	(ft)	(ft)	(sq ft)	(acre-ft)	(cfs)	(cfs)
Trib	2180	500yr	2966.0	191.19	201.93	201.93	202.84	0.003467	0.91	10.35	5.81	0.62	0.04	510	7.46		
Trib	2132	1yr	213.0	190.71	194.71	194.71	196.70	0.031042	2.00	11.33	11.33	1.05	0.37	19	0.52		
Trib	2132	2yr	331.0	190.71	196.08	196.08	198.75	0.036488	2.68	13.13	13.13	1.01	0.51	25	0.77		
Trib	2132	5yr	522.0	190.71	198.76	198.76	199.29	0.015920	0.53	6.20	5.75	0.53	0.04	91	1.19		
Trib	2132	10yr	713.0	190.71	199.01	199.01	199.65	0.015420	0.64	6.57	6.37	0.36	0.01	112	1.75		
Trib	2132	25yr	1042.0	190.71	199.39	199.39	200.19	0.014024	0.80	6.93	7.10	0.29	0.06	147	2.67		
Trib	2132	50yr	1358.0	190.71	199.85	199.85	200.61	0.010286	0.76	6.59	6.91	0.26	0.03	197	3.34		
Trib	2132	100yr	1738.0	190.71	200.12	200.12	201.02	0.010850	0.89	7.15	7.53	0.28	0.03	231	4.06		
Trib	2132	500yr	2966.0	190.71	200.89	200.89	202.16	0.010967	1.27	8.21	8.98	0.15	0.27	330	6.41		
Trib	2073	1yr	213.0	190.00	192.09	192.09	192.85	0.011643	0.77	7.04	6.98	0.22	0.01	31	0.49		
Trib	2073	2yr	331.0	190.00	192.63	192.63	193.61	0.010023	0.98	7.99	7.77	0.19	0.01	43	0.73		
Trib	2073	5yr	522.0	190.00	193.71	193.36	194.66	0.005747	0.95	7.98	7.47	0.13	0.05	70	1.08		
Trib	2073	10yr	713.0	190.00	194.71	194.29	195.41	0.003293	0.70	7.26	5.58	0.07	0.03	128	1.59		
Trib	2073	25yr	1042.0	190.00	195.61		196.23	0.002543	0.62	7.26	5.35	0.06	0.05	195	2.44		
Trib	2073	50yr	1358.0	190.00	196.22		196.88	0.002451	0.66	7.69	5.49	0.06	0.07	248	3.04		
Trib	2073	100yr	1738.0	190.00	196.82	195.90	197.60	0.002745	0.78	8.70	5.17	0.07	0.07	336	3.68		
Trib	2073	500yr	2966.0	190.00	198.74		199.12	0.001156	0.38	6.75	4.28	0.03	0.11	693	5.72		
Trib	2054	1yr	213.0	188.88	191.60	191.60	192.47	0.011421	0.87	7.48	7.42	1.06	0.03	29	0.48		
Trib	2054	2yr	331.0	188.88	192.23	192.23	193.34	0.009918	1.11	8.51	8.29	0.87	0.08	40	0.71		
Trib	2054	5yr	522.0	188.88	193.08	193.08	194.48	0.008498	1.40	9.65	9.10	0.77	0.12	57	1.06		
Trib	2054	10yr	713.0	188.88	194.30	194.30	195.31	0.004398	1.01	8.59	6.76	0.51	0.00	105	1.54		
Trib	2054	25yr	1042.0	188.88	194.99	194.99	196.12	0.004479	1.13	9.54	7.11	0.49	0.00	147	2.37		
Trib	2054	50yr	1358.0	188.88	195.44	195.44	196.75	0.004902	1.31	10.55	7.72	0.48	0.06	176	2.96		
Trib	2054	100yr	1738.0	188.88	195.93	195.93	197.44	0.005237	1.50	11.54	8.22	0.51	0.07	212	3.57		
Trib	2054	500yr	2966.0	188.88	197.45	197.45	198.97	0.004535	1.52	12.45	8.13	0.40	0.11	365	5.52		
Trib	1962	1yr	213.0	186.02	188.79	188.79	189.57	0.011471	0.77	7.06	7.00	0.94	0.05	30	0.41		
Trib	1962	2yr	331.0	186.02	189.43	189.43	190.26	0.008859	0.83	7.46	6.93	0.79	0.03	48	0.61		
Trib	1962	5yr	522.0	186.02	190.08	190.08	191.06	0.008138	0.98	8.33	7.35	0.73	0.01	71	0.92		
Trib	1962	10yr	713.0	186.02	190.64	190.64	191.68	0.006982	1.04	8.77	7.35	0.63	0.01	97	1.32		
Trib	1962	25yr	1042.0	186.02	191.36	191.36	192.50	0.006313	1.14	9.52	7.54	0.54	0.01	138	2.06		
Trib	1962	50yr	1358.0	186.02	191.99	191.99	193.10	0.005366	1.11	9.68	7.43	0.48	0.03	183	2.57		
Trib	1962	100yr	1738.0	186.02	192.40	192.40	193.69	0.005668	1.29	10.53	8.09	0.47	0.03	215	3.12		
Trib	1962	500yr	2966.0	186.02	193.80	193.80	194.95	0.004111	1.15	10.57	7.29	0.36	0.06	407	4.70		
Trib	1885	1yr	213.0	185.52	187.11	187.11	187.71	0.012875	0.59	6.19	6.19	1.79	0.01	34	0.36		
Trib	1885	2yr	331.0	185.52	187.54	187.54	188.29	0.011948	0.75	6.93	6.93	1.51	0.01	48	0.53		
Trib	1885	5yr	522.0	185.52	188.10	188.10	189.05	0.011023	0.95	7.80	7.80	1.29	0.00	67	0.80		
Trib	1885	10yr	713.0	185.52	188.58	188.58	189.68	0.009509	1.10	8.44	8.29	0.65	0.17	86	1.16		
Trib	1885	25yr	1042.0	185.52	189.30	189.30	190.58	0.007901	1.28	9.20	8.70	0.36	0.29	120	1.83		
Trib	1885	50yr	1358.0	185.52	189.85	189.85	191.29	0.007314	1.44	9.87	9.08	0.39	0.31	150	2.28		
Trib	1885	100yr	1738.0	185.52	190.48	190.48	192.03	0.006534	1.55	10.39	9.21	0.44	0.30	189	2.76		
Trib	1885	500yr	2966.0	185.52	192.08	192.08	193.82	0.005235	1.74	11.50	9.12	0.58	0.18	325	4.04		
Trib	1742	1yr	213.0	182.00	184.04	184.04	184.77	0.012218	0.73	6.85	6.85	0.30	0.15	31	0.25		
Trib	1742	2yr	331.0	182.00	184.61	184.61	185.47	0.009426	0.86	7.51	7.20	0.19	0.20	46	0.38		
Trib	1742	5yr	522.0	182.00	185.31	185.31	186.30	0.007565	0.98	8.22	7.35	0.09	0.26	71	0.57		
Trib	1742	10yr	713.0	182.00	186.63		187.15	0.002677	0.52	6.38	5.04	0.05	0.13	142	0.79		
Trib	1742	25yr	1042.0	182.00	188.10		188.42	0.001237	0.32	5.33	4.06	0.03	0.07	257	1.22		
Trib	1742	50yr	1358.0	182.00	188.53		188.94	0.001442	0.41	6.05	4.65	0.04	0.09	292	1.56		
Trib	1742	100yr	1738.0	182.00	188.89		189.43	0.001770	0.54	6.97	5.40	0.04	0.12	322	1.93		
Trib	1742	500yr	2966.0	182.00	189.51		190.65	0.003311	1.14	10.15	7.96	0.07	0.26	373	2.90		
Trib	1688	1yr	213.0	181.00	183.43	182.50	183.67	0.003090	0.24	3.92	3.92			54	0.20		
Trib	1688	2yr	331.0	181.00	184.38	183.07	184.59	0.001798	0.20	3.68	3.32			100	0.29		

HEC-RAS Plan: Existing_2021-6-10 River: Trib Reach: Trib (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Head	Vel Chnl	Vel Total	Frctn Loss	C & E Loss	Flow Area	Volume	Q Weir	Q Culv Group
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft)	(ft/s)	(ft/s)	(ft)	(ft)	(sq ft)	(acre-ft)	(cfs)	(cfs)
Trib	1688	5yr	522.0	181.00	185.73	183.77	185.85	0.000719	0.12	3.09	2.57			203	0.40		
Trib	1688	10yr	713.0	181.00	186.88	184.47	186.98	0.000418	0.10	2.80	2.29			312	0.51		
Trib	1688	25yr	1042.0	181.00	188.22	185.02	188.32	0.000355	0.10	3.02	2.16			483	0.76		
Trib	1688	50yr	1358.0	181.00	188.69	185.45	188.82	0.000407	0.12	3.39	2.40			566	1.03		
Trib	1688	100yr	1738.0	181.00	189.12	185.88	189.27	0.000476	0.15	3.82	2.68			648	1.32		
Trib	1688	500yr	2966.0	181.00	190.06	186.98	190.32	0.000727	0.26	5.11	3.45			860	2.14		
Trib	1648 Parr Mdw Dr	1yr	213.0														213.00
Trib	1648 Parr Mdw Dr	2yr	331.0														331.00
Trib	1648 Parr Mdw Dr	5yr	522.0														522.00
Trib	1648 Parr Mdw Dr	10yr	713.0														713.00
Trib	1648 Parr Mdw Dr	25yr	1042.0													76.23	965.77
Trib	1648 Parr Mdw Dr	50yr	1358.0													322.85	1035.15
Trib	1648 Parr Mdw Dr	100yr	1738.0													658.69	1079.31
Trib	1648 Parr Mdw Dr	500yr	2966.0													1780.13	1185.87
Trib	1614	1yr	213.0	180.50	182.20	182.20	182.76	0.008888	0.56	6.08	5.56	0.23	0.10	38	0.16		
Trib	1614	2yr	331.0	180.50	182.74	182.74	183.18	0.005752	0.44	5.88	4.38	0.24	0.04	76	0.24		
Trib	1614	5yr	522.0	180.50	183.08	183.08	183.60	0.006183	0.51	6.70	4.88	0.29	0.02	107	0.33		
Trib	1614	10yr	713.0	180.50	183.34	183.34	183.93	0.006638	0.60	7.39	5.42	0.32	0.01	132	0.42		
Trib	1614	25yr	1042.0	180.50	183.74	183.74	184.44	0.006841	0.70	8.20	5.99	0.33	0.00	174	0.55		
Trib	1614	50yr	1358.0	180.50	183.95	183.95	184.84	0.008078	0.89	9.29	6.88	0.37	0.02	197	0.66		
Trib	1614	100yr	1738.0	180.50	184.35	184.35	185.29	0.007527	0.94	9.64	7.12	0.36	0.00	244	0.80		
Trib	1614	500yr	2966.0	180.50	185.19	185.19	186.42	0.007628	1.23	11.08	8.40	0.36	0.01	353	1.19		
Trib	1593	1yr	213.0	181.33	182.15	182.10	182.37	0.012282	0.22	3.74	3.74	1.54	0.00	57	0.14		
Trib	1593	2yr	331.0	181.33	182.31	182.28	182.63	0.013416	0.32	4.56	4.56	1.55	0.00	73	0.18		
Trib	1593	5yr	522.0	181.33	182.53	182.53	182.99	0.013776	0.46	5.47	5.47	1.50	0.01	95	0.24		
Trib	1593	10yr	713.0	181.33	182.74	182.74	183.31	0.012870	0.56	6.03	6.03	1.41	0.01	118	0.30		
Trib	1593	25yr	1042.0	181.33	183.08	183.08	183.79	0.011808	0.71	6.76	6.76	1.30	0.01	154	0.39		
Trib	1593	50yr	1358.0	181.33	183.36	183.36	184.19	0.011217	0.84	7.35	7.35	1.24	0.02	185	0.47		
Trib	1593	100yr	1738.0	181.33	183.66	183.66	184.64	0.010685	0.98	7.93	7.93	1.18	0.03	219	0.56		
Trib	1593	500yr	2966.0	181.33	184.52	184.52	185.86	0.009163	1.34	9.29	9.21	1.04	0.05	322	0.83		
Trib	1484	1yr	213.0	179.99	180.57	180.57	180.83	0.016528	0.26	4.08	4.08			52			
Trib	1484	2yr	331.0	179.99	180.75	180.75	181.09	0.015100	0.34	4.66	4.66			71			
Trib	1484	5yr	522.0	179.99	181.00	181.00	181.44	0.013746	0.44	5.35	5.35			98			
Trib	1484	10yr	713.0	179.99	181.21	181.21	181.75	0.013042	0.54	5.88	5.88			121			
Trib	1484	25yr	1042.0	179.99	181.53	181.53	182.20	0.012125	0.67	6.56	6.56			159			
Trib	1484	50yr	1358.0	179.99	181.80	181.80	182.58	0.011558	0.78	7.07	7.07			192			
Trib	1484	100yr	1738.0	179.99	182.10	182.10	182.99	0.011058	0.89	7.57	7.57			230			
Trib	1484	500yr	2966.0	179.99	182.91	182.91	184.07	0.010106	1.16	8.65	8.65			343			

HEC-RAS Plan: PostProject_2021-6-10 River: Trib Reach: Trib

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Head	Vel Chnl	Vel Total	Frctn Loss	C & E Loss	Flow Area	Volume	Q Weir	Q Culv Group
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft)	(ft/s)	(ft/s)	(ft)	(ft)	(sq ft)	(acre-ft)	(cfs)	(cfs)
Trib	3417	1yr	213.0	206.00	212.14		212.17	0.000112	0.03	1.42	1.35	0.00	0.00	157	2.52		
Trib	3417	2yr	331.0	206.00	212.60		212.66	0.000193	0.06	1.98	1.79	0.01	0.01	185	3.99		
Trib	3417	5yr	522.0	206.00	213.05		213.16	0.000339	0.11	2.77	2.30	0.01	0.02	227	5.81		
Trib	3417	10yr	713.0	206.00	213.36		213.53	0.000490	0.17	3.46	2.72	0.02	0.03	262	7.71		
Trib	3417	25yr	1042.0	206.00	213.80		214.06	0.000720	0.26	4.40	3.26	0.03	0.05	320	10.39		
Trib	3417	50yr	1358.0	206.00	214.07		214.43	0.000975	0.36	5.26	3.79	0.04	0.07	358	13.05		
Trib	3417	100yr	1738.0	206.00	214.33		214.81	0.001291	0.48	6.21	4.38	0.05	0.09	396	15.50		
Trib	3417	500yr	2966.0	206.00	214.92		215.84	0.002335	0.91	8.83	6.04	0.09	0.17	491	22.00		
Trib	3351	1yr	213.0	206.00	212.14		212.16	0.000054	0.01	1.01	0.85	0.00	0.00	250	2.21		
Trib	3351	2yr	331.0	206.00	212.61		212.64	0.000083	0.02	1.33	1.06	0.00	0.00	313	3.62		
Trib	3351	5yr	522.0	206.00	213.09		213.13	0.000133	0.04	1.78	1.37	0.00	0.00	381	5.36		
Trib	3351	10yr	713.0	206.00	213.41		213.47	0.000187	0.06	2.19	1.66	0.01	0.00	430	7.20		
Trib	3351	25yr	1042.0	206.00	213.89		213.98	0.000269	0.09	2.77	2.07	0.01	0.00	503	9.78		
Trib	3351	50yr	1358.0	206.00	214.19		214.33	0.000387	0.14	3.42	2.45	0.01	0.01	554	12.38		
Trib	3351	100yr	1738.0	206.00	214.48		214.67	0.000515	0.19	4.06	2.85	0.02	0.01	611	14.75		
Trib	3351	500yr	2966.0	206.00	215.23		215.58	0.000872	0.35	5.65	3.82	0.03	0.01	777	21.06		
Trib	3322	1yr	213.0	204.98	212.14	207.23	212.16	0.000081	0.02	1.14	1.02			210	2.06		
Trib	3322	2yr	331.0	204.98	212.60	207.83	212.63	0.000123	0.03	1.50	1.26			263	3.42		
Trib	3322	5yr	522.0	204.98	213.07	208.60	213.12	0.000198	0.06	2.03	1.63			320	5.11		
Trib	3322	10yr	713.0	204.98	213.38	209.23	213.47	0.000278	0.08	2.50	1.97			362	6.92		
Trib	3322	25yr	1042.0	204.98	213.84	210.11	213.97	0.000403	0.13	3.17	2.44			428	9.45		
Trib	3322	50yr	1358.0	204.98	214.08	210.88	214.30	0.000661	0.22	4.17	2.89			471	12.01		
Trib	3322	100yr	1738.0	204.98	214.37	211.73	214.65	0.000810	0.27	4.75	3.22			540	14.34		
Trib	3322	500yr	2966.0	204.98	215.13	213.44	215.54	0.001171	0.41	6.15	4.06			730	20.52		
Trib	3299 Oak St.	1yr	213.0													23.31	189.69
Trib	3299 Oak St.	2yr	331.0													137.76	193.24
Trib	3299 Oak St.	5yr	522.0													332.96	189.04
Trib	3299 Oak St.	10yr	713.0													531.47	181.53
Trib	3299 Oak St.	25yr	1042.0													839.66	202.34
Trib	3299 Oak St.	50yr	1358.0													1144.54	213.46
Trib	3299 Oak St.	100yr	1738.0													1510.08	227.93
Trib	3299 Oak St.	500yr	2966.0													2720.03	245.97
Trib	3279	1yr	213.0	204.98	211.07		211.11	0.000232	0.04	1.72	1.56	0.01	0.00	137	2.00		
Trib	3279	2yr	331.0	204.98	211.51		211.58	0.000359	0.08	2.30	1.96	0.01	0.00	169	3.32		
Trib	3279	5yr	522.0	204.98	212.04		212.17	0.000537	0.13	3.04	2.40	0.01	0.00	218	4.95		
Trib	3279	10yr	713.0	204.98	212.47		212.63	0.000649	0.16	3.54	2.66	0.02	0.00	268	6.70		
Trib	3279	25yr	1042.0	204.98	212.74		213.02	0.001085	0.28	4.73	3.42	0.03	0.00	304	9.17		
Trib	3279	50yr	1358.0	204.98	212.93		213.35	0.001597	0.43	5.87	4.02	0.04	0.00	338	11.65		
Trib	3279	100yr	1738.0	204.98	213.08	212.27	213.72	0.002360	0.64	7.26	4.69	0.06	0.03	370	13.90		
Trib	3279	500yr	2966.0	204.98	213.68	213.68	214.67	0.003606	0.99	9.58	5.76	0.09	0.01	515	19.85		
Trib	3253	1yr	213.0	206.00	211.06		211.11	0.000226	0.05	1.73	1.60	0.04	0.01	133	1.92		
Trib	3253	2yr	331.0	206.00	211.49		211.57	0.000357	0.08	2.33	2.04	0.06	0.02	163	3.22		
Trib	3253	5yr	522.0	206.00	212.01		212.15	0.000554	0.14	3.15	2.52	0.10	0.04	207	4.82		
Trib	3253	10yr	713.0	206.00	212.43		212.62	0.000689	0.19	3.72	2.71	0.11	0.03	263	6.54		
Trib	3253	25yr	1042.0	206.00	212.66		212.99	0.001163	0.32	4.98	3.38	0.16	0.02	308	8.99		
Trib	3253	50yr	1358.0	206.00	212.88		213.31	0.001536	0.43	5.88	3.86	0.21	0.02	352	11.45		
Trib	3253	100yr	1738.0	206.00	213.08		213.64	0.001983	0.56	6.84	4.41	0.26	0.01	394	13.67		
Trib	3253	500yr	2966.0	206.00	213.57	213.53	214.52	0.003303	0.95	9.33	5.94	0.36	0.01	499	19.55		
Trib	3182	1yr	213.0	203.93	210.87		211.05	0.003730	0.19	3.46	3.46	0.54	0.21	62	1.76		
Trib	3182	2yr	331.0	203.93	211.18		211.49	0.005428	0.31	4.44	4.44	0.46	0.01	74	3.02		
Trib	3182	5yr	522.0	203.93	211.46		212.01	0.008824	0.55	5.98	5.98	0.66	0.06	87	4.58		
Trib	3182	10yr	713.0	203.93	211.97	211.97	212.47	0.007011	0.50	5.84	4.92	0.59	0.02	145	6.21		

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Head	Vel Chnl	Vel Total	Frctn Loss	C & E Loss	Flow Area	Volume	Q Weir	Q Culv Group
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft)	(ft/s)	(ft/s)	(ft)	(ft)	(sq ft)	(acre-ft)	(cfs)	(cfs)
Trib	3182	25yr	1042.0	203.93	212.30	212.30	212.80	0.006508	0.50	6.22	4.85	0.57	0.01	215	8.55		
Trib	3182	50yr	1358.0	203.93	212.45	212.45	213.08	0.007839	0.63	7.11	5.52	0.63	0.00	246	10.95		
Trib	3182	100yr	1738.0	203.93	212.66	212.66	213.36	0.008234	0.71	7.68	6.00	0.64	0.00	290	13.10		
Trib	3182	500yr	2966.0	203.93	213.23	213.23	214.15	0.008574	0.92	8.91	7.21	0.61	0.01	411	18.79		
Trib	3120	1yr	213.0	203.52	208.04	208.04	210.31	0.039353	2.27	12.08	12.08	0.47	0.58	18	1.70		
Trib	3120	2yr	331.0	203.52	210.73	210.73	211.01	0.011195	0.28	5.57	3.90	0.38	0.03	85	2.91		
Trib	3120	5yr	522.0	203.52	210.94	210.94	211.30	0.013154	0.36	6.04	4.66	0.44	0.04	112	4.44		
Trib	3120	10yr	713.0	203.52	211.11	211.11	211.54	0.014116	0.44	6.25	5.26	0.51	0.06	136	6.01		
Trib	3120	25yr	1042.0	203.52	211.36	211.36	211.92	0.014549	0.56	6.35	5.99	0.56	0.08	174	8.28		
Trib	3120	50yr	1358.0	203.52	211.59	211.59	212.24	0.014082	0.64	6.25	6.44	0.40	0.03	211	10.63		
Trib	3120	100yr	1738.0	203.52	211.85	211.85	212.58	0.013392	0.73	6.09	6.84	0.33	0.00	254	12.72		
Trib	3120	500yr	2966.0	203.52	212.48	212.48	213.49	0.011745	1.01	5.70	8.00	0.36	0.01	371	18.23		
Trib	3066	1yr	213.0	203.19	206.18		206.53	0.003686	0.34	4.71	4.71	0.23	0.00	45	1.66		
Trib	3066	2yr	331.0	203.19	206.68		207.21	0.004751	0.54	5.87	5.87	0.32	0.01	56	2.82		
Trib	3066	5yr	522.0	203.19	207.42		208.18	0.005350	0.76	6.99	6.99	0.40	0.04	75	4.32		
Trib	3066	10yr	713.0	203.19	207.90		208.94	0.006518	1.04	8.18	8.18	0.39	0.01	87	5.87		
Trib	3066	25yr	1042.0	203.19	208.69	208.32	210.09	0.007500	1.40	9.49	9.49	0.28	0.18	110	8.10		
Trib	3066	50yr	1358.0	203.19	209.93	209.93	210.88	0.004410	0.96	8.21	6.56	0.20	0.08	207	10.36		
Trib	3066	100yr	1738.0	203.19	210.52	210.52	211.28	0.003414	0.76	7.85	5.40	0.19	0.00	322	12.36		
Trib	3066	500yr	2966.0	203.19	211.18	211.18	212.16	0.004244	0.98	9.51	6.47	0.24	0.00	459	17.71		
Trib	3013	1yr	213.0	204.00	205.90		206.29	0.005378	0.39	5.00	5.00	0.33	0.01	43	1.61		
Trib	3013	2yr	331.0	204.00	206.20		206.87	0.007983	0.68	6.61	6.61	0.41	0.01	50	2.76		
Trib	3013	5yr	522.0	204.00	206.61	206.61	207.75	0.011071	1.14	8.55	8.55	0.47	0.10	61	4.24		
Trib	3013	10yr	713.0	204.00	207.38	207.16	208.53	0.008355	1.16	8.63	8.62	0.19	0.24	83	5.76		
Trib	3013	25yr	1042.0	204.00	208.82	208.82	209.63	0.003849	0.81	7.53	5.63	0.11	0.16	185	7.92		
Trib	3013	50yr	1358.0	204.00	209.32	209.32	210.00	0.003229	0.68	7.44	4.87	0.08	0.15	279	10.05		
Trib	3013	100yr	1738.0	204.00	209.59	209.59	210.35	0.003579	0.76	8.13	5.22	0.08	0.17	333	11.93		
Trib	3013	500yr	2966.0	204.00	210.26	210.26	211.25	0.004406	0.99	9.83	6.33	0.08	0.21	469	17.11		
Trib	2971	1yr	213.0	203.99	205.42	205.42	205.94	0.013479	0.52	5.79	5.79	0.55	0.01	37	1.57		
Trib	2971	2yr	331.0	203.99	205.80	205.80	206.46	0.012715	0.65	6.49	6.49	0.31	0.08	51	2.71		
Trib	2971	5yr	522.0	203.99	206.31	206.31	207.12	0.011681	0.81	7.22	7.22	0.17	0.15	72	4.17		
Trib	2971	10yr	713.0	203.99	207.73	206.73	208.10	0.003049	0.37	4.87	4.87	0.06	0.06	146	5.64		
Trib	2971	25yr	1042.0	203.99	208.47	207.33	208.74	0.001980	0.28	4.56	3.59	0.05	0.02	290	7.69		
Trib	2971	50yr	1358.0	203.99	209.16	207.81	209.36	0.001166	0.19	4.01	3.12	0.04	0.00	435	9.71		
Trib	2971	100yr	1738.0	203.99	209.58	208.00	209.79	0.001123	0.21	4.22	3.32	0.04	0.00	523	11.53		
Trib	2971	500yr	2966.0	203.99	210.59	209.16	210.87	0.001173	0.29	4.98	4.04	0.04	0.00	735	16.53		
Trib	2928	1yr	213.0	202.00	203.88	203.85	204.46	0.011849	0.57	6.07	6.07	0.43	0.07	35	1.54		
Trib	2928	2yr	331.0	202.00	204.83	204.29	205.23	0.004655	0.40	5.07	5.07	0.29	0.01	65	2.65		
Trib	2928	5yr	522.0	202.00	206.20	204.86	206.51	0.001890	0.31	4.50	4.25	0.18	0.03	123	4.07		
Trib	2928	10yr	713.0	202.00	207.81	205.35	207.99	0.000695	0.18	3.59	2.92	0.06	0.01	244	5.42		
Trib	2928	25yr	1042.0	202.00	208.46	205.91	208.67	0.000759	0.21	4.09	2.78	0.06	0.00	374	7.36		
Trib	2928	50yr	1358.0	202.00	209.13	206.79	209.32	0.000632	0.18	4.03	2.70	0.05	0.00	502	9.25		
Trib	2928	100yr	1738.0	202.00	209.54	207.39	209.75	0.000703	0.21	4.44	2.99	0.05	0.00	580	10.98		
Trib	2928	500yr	2966.0	202.00	210.50	208.92	210.83	0.000929	0.32	5.60	3.86	0.07	0.00	768	15.80		
Trib	2857	1yr	213.0	201.10	203.61	202.73	203.96	0.003679	0.34	4.71	4.71			45	1.47		
Trib	2857	2yr	331.0	201.10	204.47	203.29	204.93	0.003671	0.46	5.46	5.46			61	2.55		
Trib	2857	5yr	522.0	201.10	205.67	204.06	206.29	0.003761	0.62	6.33	6.33			82	3.91		
Trib	2857	10yr	713.0	201.10	207.69	204.75	207.92	0.001119	0.24	4.37	3.01			237	5.01		
Trib	2857	25yr	1042.0	201.10	208.35	206.80	208.60	0.001169	0.25	4.77	3.11			335	6.79		
Trib	2857	50yr	1358.0	201.10	209.06	207.64	209.26	0.000852	0.20	4.35	2.91			466	8.47		
Trib	2857	100yr	1738.0	201.10	209.47	207.88	209.70	0.000903	0.23	4.63	3.18			546	10.08		
Trib	2857	500yr	2966.0	201.10	210.42	208.96	210.76	0.001040	0.34	5.35	3.96			750	14.58		

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Head	Vel Chnl	Vel Total	Frctn Loss	C & E Loss	Flow Area	Volume	Q Weir	Q Culv Group
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft)	(ft/s)	(ft/s)	(ft)	(ft)	(sq ft)	(acre-ft)	(cfs)	(cfs)
Trib	2821 Route 9W	1yr	213.0														213.00
Trib	2821 Route 9W	2yr	331.0														331.00
Trib	2821 Route 9W	5yr	522.0														522.00
Trib	2821 Route 9W	10yr	713.0													0.47	712.53
Trib	2821 Route 9W	25yr	1042.0													215.37	826.63
Trib	2821 Route 9W	50yr	1358.0													660.59	697.41
Trib	2821 Route 9W	100yr	1738.0													1061.71	676.29
Trib	2821 Route 9W	500yr	2966.0													2307.60	658.40
Trib	2775	1yr	213.0	200.50	202.19	202.12	202.92	0.011908	0.74	6.90	6.90	1.42	0.08	31	1.43		
Trib	2775	2yr	331.0	200.50	202.67	202.67	203.74	0.013021	1.07	8.30	8.30	1.43	0.13	40	2.48		
Trib	2775	5yr	522.0	200.50	203.48	203.48	204.84	0.012219	1.36	9.34	9.34	1.33	0.16	56	3.82		
Trib	2775	10yr	713.0	200.50	204.18	204.18	205.73	0.011635	1.55	10.00	10.00	1.20	0.18	71	4.90		
Trib	2775	25yr	1042.0	200.50	205.18	205.18	207.01	0.010870	1.83	10.85	10.85	1.14	0.20	96	6.43		
Trib	2775	50yr	1358.0	200.50	206.83	206.83	207.95	0.005049	1.12	8.77	7.37	0.74	0.02	184	7.88		
Trib	2775	100yr	1738.0	200.50	207.41	207.41	208.48	0.004533	1.07	8.98	6.86	0.70	0.05	253	9.31		
Trib	2775	500yr	2966.0	200.50	208.59	208.59	209.50	0.003627	0.91	9.20	6.26	0.59	0.12	474	13.37		
Trib	2663	1yr	213.0	199.81	200.94	200.94	201.42	0.013619	0.49	5.61	5.61	0.53	0.06	38	1.34		
Trib	2663	2yr	331.0	199.81	201.28	201.28	201.91	0.012507	0.64	6.40	6.40	0.44	0.10	52	2.37		
Trib	2663	5yr	522.0	199.81	201.74	201.74	202.57	0.011496	0.83	7.32	7.32	0.24	0.18	71	3.65		
Trib	2663	10yr	713.0	199.81	202.20	202.14	203.14	0.009970	0.94	7.77	7.77	0.23	0.19	92	4.69		
Trib	2663	25yr	1042.0	199.81	202.80	202.74	203.97	0.009490	1.17	8.68	8.68	0.28	0.22	120	6.16		
Trib	2663	50yr	1358.0	199.81	203.31	203.25	204.66	0.009101	1.35	9.32	9.32	0.31	0.23	146	7.46		
Trib	2663	100yr	1738.0	199.81	203.79	203.79	205.40	0.009332	1.61	10.17	10.17	0.35	0.25	171	8.78		
Trib	2663	500yr	2966.0	199.81	205.25	205.25	207.36	0.008620	2.11	11.66	11.66	0.48	0.17	254	12.47		
Trib	2591	1yr	213.0	197.99	199.66	199.21	199.94	0.004523	0.28	4.23	4.23	0.62	0.03	50	1.26		
Trib	2591	2yr	331.0	197.99	200.28		200.60	0.003578	0.32	4.54	4.54	0.24	0.03	73	2.26		
Trib	2591	5yr	522.0	197.99	201.76		201.99	0.001513	0.24	3.90	3.90	0.10	0.02	134	3.48		
Trib	2591	10yr	713.0	197.99	202.42		202.71	0.001565	0.29	4.34	4.34	0.11	0.02	164	4.48		
Trib	2591	25yr	1042.0	197.99	203.03		203.47	0.002068	0.44	5.35	5.35	0.15	0.03	195	5.89		
Trib	2591	50yr	1358.0	197.99	203.54		204.12	0.002436	0.58	6.12	6.12	0.18	0.04	222	7.16		
Trib	2591	100yr	1738.0	197.99	203.99		204.76	0.002966	0.77	7.04	7.04	0.22	0.04	247	8.43		
Trib	2591	500yr	2966.0	197.99	204.85		206.40	0.005152	1.55	9.99	9.99	0.41	0.05	297	12.01		
Trib	2504	1yr	213.0	197.53	198.74	198.74	199.29	0.013132	0.54	5.92	5.92	0.60	0.09	36	1.18		
Trib	2504	2yr	331.0	197.53	200.11		200.34	0.002241	0.23	3.84	3.84	0.10	0.04	86	2.11		
Trib	2504	5yr	522.0	197.53	201.70		201.87	0.000980	0.17	3.33	3.33	0.06	0.02	157	3.19		
Trib	2504	10yr	713.0	197.53	202.36		202.58	0.001065	0.22	3.76	3.76	0.07	0.03	190	4.13		
Trib	2504	25yr	1042.0	197.53	202.95		203.29	0.001476	0.35	4.72	4.72	0.10	0.04	221	5.48		
Trib	2504	50yr	1358.0	197.53	203.44		203.91	0.001797	0.46	5.46	5.46	0.13	0.04	249	6.69		
Trib	2504	100yr	1738.0	197.53	203.87		204.50	0.002260	0.63	6.36	6.36	0.17	0.06	273	7.91		
Trib	2504	500yr	2966.0	197.53	204.57		205.94	0.004392	1.37	9.39	9.39	0.34	0.11	316	11.40		
Trib	2406	1yr	213.0	195.97	197.94		198.20	0.003508	0.25	4.04	4.04	0.27	0.00	53	1.08		
Trib	2406	2yr	331.0	195.97	200.10		200.20	0.000582	0.10	2.49	2.49	0.03	0.00	133	1.86		
Trib	2406	5yr	522.0	195.97	201.69		201.79	0.000418	0.10	2.52	2.52	0.03	0.00	207	2.78		
Trib	2406	10yr	713.0	195.97	202.34		202.48	0.000511	0.14	2.96	2.96	0.03	0.00	241	3.64		
Trib	2406	25yr	1042.0	195.97	202.93		203.15	0.000773	0.23	3.81	3.81	0.05	0.01	273	4.92		
Trib	2406	50yr	1358.0	195.97	203.42		203.73	0.001001	0.31	4.50	4.50	0.06	0.01	302	6.07		
Trib	2406	100yr	1738.0	195.97	203.83		204.27	0.001318	0.44	5.32	5.32	0.08	0.01	327	7.24		
Trib	2406	500yr	2966.0	195.97	204.48		205.49	0.002784	1.01	8.07	8.07	0.17	0.02	368	10.63		
Trib	2340	1yr	213.0	195.83	197.63		197.93	0.004683	0.30	4.37	4.37	0.03	0.08	49	1.00		
Trib	2340	2yr	331.0	195.83	200.07		200.16	0.000481	0.08	2.30	2.30	0.01	0.02	144	1.65		
Trib	2340	5yr	522.0	195.83	201.67		201.76	0.000352	0.09	2.35	2.35	0.01	0.02	222	2.46		

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Head	Vel Chnl	Vel Total	Frctn Loss	C & E Loss	Flow Area	Volume	Q Weir	Q Culv Group
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft)	(ft/s)	(ft/s)	(ft)	(ft)	(sq ft)	(acre-ft)	(cfs)	(cfs)
Trib	2340	10yr	713.0	195.83	202.32		202.44	0.000435	0.12	2.77	2.77	0.01	0.02	257	3.26		
Trib	2340	25yr	1042.0	195.83	202.90		203.10	0.000665	0.20	3.59	3.59	0.02	0.04	290	4.50		
Trib	2340	50yr	1358.0	195.83	203.38		203.66	0.000868	0.28	4.25	4.25	0.02	0.05	320	5.60		
Trib	2340	100yr	1738.0	195.83	203.78		204.18	0.001155	0.39	5.04	5.04	0.03	0.07	345	6.73		
Trib	2340	500yr	2966.0	195.83	204.36		205.29	0.002518	0.94	7.76	7.75	0.07	0.17	383	10.06		
Trib	2280	1yr	213.0	194.00	197.79		197.82	0.000164	0.03	1.31	1.31	0.01	0.00	162	0.85		
Trib	2280	2yr	331.0	194.00	200.11		200.13	0.000069	0.02	1.14	1.14	0.00	0.00	291	1.35		
Trib	2280	5yr	522.0	194.00	201.71		201.73	0.000074	0.03	1.34	1.34	0.00	0.00	390	2.04		
Trib	2280	10yr	713.0	194.00	202.37		202.41	0.000100	0.04	1.65	1.64	0.00	0.00	433	2.78		
Trib	2280	25yr	1042.0	194.00	202.97		203.04	0.000161	0.08	2.20	2.18	0.01	0.00	478	3.97		
Trib	2280	50yr	1358.0	194.00	203.48		203.59	0.000218	0.11	2.67	2.62	0.01	0.00	519	5.02		
Trib	2280	100yr	1738.0	194.00	203.92		204.08	0.000297	0.16	3.22	3.14	0.01	0.01	554	6.11		
Trib	2280	500yr	2966.0	194.00	204.68		205.06	0.000643	0.38	4.99	4.74	0.02	0.04	626	9.36		
Trib	2243	1yr	213.0	192.73	197.77	194.53	197.81	0.000207	0.04	1.53	1.53			139	0.73		
Trib	2243	2yr	331.0	192.73	200.10	195.03	200.13	0.000083	0.03	1.29	1.21			272	1.11		
Trib	2243	5yr	522.0	192.73	201.70	195.68	201.73	0.000072	0.03	1.44	1.22			428	1.69		
Trib	2243	10yr	713.0	192.73	202.36	196.23	202.41	0.000092	0.04	1.74	1.40			510	2.38		
Trib	2243	25yr	1042.0	192.73	202.97	196.99	203.04	0.000141	0.07	2.26	1.74			597	3.50		
Trib	2243	50yr	1358.0	192.73	203.48	197.64	203.57	0.000181	0.09	2.68	1.99			682	4.50		
Trib	2243	100yr	1738.0	192.73	203.93	198.32	204.06	0.000233	0.13	3.15	2.27			765	5.54		
Trib	2243	500yr	2966.0	192.73	204.75	200.05	205.00	0.000435	0.25	4.56	2.95			1006	8.65		
Trib	2215 Morris Dr.	1yr	213.0														213.00
Trib	2215 Morris Dr.	2yr	331.0														331.00
Trib	2215 Morris Dr.	5yr	522.0													20.43	501.57
Trib	2215 Morris Dr.	10yr	713.0													166.12	546.88
Trib	2215 Morris Dr.	25yr	1042.0													455.38	586.62
Trib	2215 Morris Dr.	50yr	1358.0													832.95	525.05
Trib	2215 Morris Dr.	100yr	1738.0													1234.45	503.56
Trib	2215 Morris Dr.	500yr	2966.0													2469.70	496.30
Trib	2191	1yr	213.0	192.33	197.09		197.27	0.001031	0.18	3.44	3.41	0.00	0.02	63	0.64		
Trib	2191	2yr	331.0	192.33	199.07		199.26	0.000632	0.19	3.51	3.33	0.00	0.02	99	0.96		
Trib	2191	5yr	522.0	192.33	199.30		199.73	0.001373	0.43	5.31	5.00	0.01	0.04	104	1.48		
Trib	2191	10yr	713.0	192.33	199.52		200.25	0.002268	0.74	6.98	6.52	0.01	0.07	109	2.09		
Trib	2191	25yr	1042.0	192.33	199.71	198.36	201.18	0.004361	1.47	9.88	9.11	0.02	0.14	114	3.08		
Trib	2191	50yr	1358.0	192.33	199.46	199.46	202.19	0.008474	2.72	13.43	12.55	0.03	0.45	108	3.95		
Trib	2191	100yr	1738.0	192.33	201.61	201.61	202.53	0.002654	0.92	9.10	5.30	0.01	0.02	328	4.86		
Trib	2191	500yr	2966.0	192.33	202.62	202.62	203.50	0.002804	0.88	10.08	5.24	0.02	0.01	566	7.59		
Trib	2185	1yr	213.0	191.50	197.12		197.25	0.000575	0.13	3.01	2.75	0.00	0.01	77	0.63		
Trib	2185	2yr	331.0	191.50	199.10		199.24	0.000403	0.13	3.12	2.59	0.00	0.01	128	0.95		
Trib	2185	5yr	522.0	191.50	199.39		199.68	0.000848	0.29	4.64	3.79	0.00	0.01	138	1.47		
Trib	2185	10yr	713.0	191.50	199.67		200.17	0.001396	0.50	6.11	4.76	0.01	0.01	150	2.07		
Trib	2185	25yr	1042.0	191.50	200.03	197.87	201.02	0.002623	0.99	8.62	6.11	0.01	0.00	171	3.06		
Trib	2185	50yr	1358.0	191.50	200.44	199.09	201.66	0.003257	1.22	9.92	6.26	0.01	0.10	217	3.92		
Trib	2185	100yr	1738.0	191.50	201.26	201.26	202.10	0.002446	0.85	9.14	4.95	0.01	0.01	351	4.81		
Trib	2185	500yr	2966.0	191.50	202.08	202.08	203.03	0.002951	0.95	10.62	5.63	0.01	0.01	526	7.51		
Trib	2180	1yr	213.0	191.19	197.04		197.24	0.001183	0.20	3.60	3.52	0.36	0.18	60	0.62		
Trib	2180	2yr	331.0	191.19	199.05		199.23	0.000678	0.18	3.54	3.03	0.23	0.25	109	0.94		
Trib	2180	5yr	522.0	191.19	199.27		199.66	0.001432	0.40	5.27	4.37	0.37	0.01	119	1.45		
Trib	2180	10yr	713.0	191.19	199.53		200.15	0.002197	0.62	6.71	5.34	0.50	0.00	133	2.05		
Trib	2180	25yr	1042.0	191.19	199.92	198.63	200.92	0.003448	1.01	8.73	6.57	0.67	0.06	159	3.04		
Trib	2180	50yr	1358.0	191.19	200.66	200.66	201.54	0.003070	0.89	8.80	5.36	0.56	0.04	253	3.90		
Trib	2180	100yr	1738.0	191.19	201.16	201.16	201.97	0.002910	0.80	8.94	5.06	0.55	0.01	343	4.77		

HEC-RAS Plan: PostProject_2021-6-10 River: Trib Reach: Trib (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Head	Vel Chnl	Vel Total	Frctn Loss	C & E Loss	Flow Area	Volume	Q Weir	Q Culv Group
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft)	(ft/s)	(ft/s)	(ft)	(ft)	(sq ft)	(acre-ft)	(cfs)	(cfs)
Trib	2180	500yr	2966.0	191.19	201.93	201.93	202.84	0.003467	0.91	10.35	5.81	0.62	0.04	510	7.46		
Trib	2132	1yr	213.0	190.71	194.71	194.71	196.70	0.031042	2.00	11.33	11.33	1.05	0.37	19	0.52		
Trib	2132	2yr	331.0	190.71	196.08	196.08	198.75	0.036488	2.68	13.13	13.13	1.01	0.51	25	0.77		
Trib	2132	5yr	522.0	190.71	198.76	198.76	199.29	0.015920	0.53	6.20	5.75	0.53	0.04	91	1.19		
Trib	2132	10yr	713.0	190.71	199.01	199.01	199.65	0.015420	0.64	6.57	6.37	0.36	0.01	112	1.75		
Trib	2132	25yr	1042.0	190.71	199.39	199.39	200.19	0.014024	0.80	6.93	7.10	0.29	0.06	147	2.67		
Trib	2132	50yr	1358.0	190.71	199.85	199.85	200.61	0.010286	0.76	6.59	6.91	0.26	0.03	197	3.34		
Trib	2132	100yr	1738.0	190.71	200.12	200.12	201.02	0.010850	0.89	7.15	7.53	0.28	0.03	231	4.06		
Trib	2132	500yr	2966.0	190.71	200.89	200.89	202.16	0.010967	1.27	8.21	8.98	0.15	0.27	330	6.41		
Trib	2073	1yr	213.0	190.00	192.09	192.09	192.85	0.011643	0.77	7.04	6.98	0.22	0.01	31	0.49		
Trib	2073	2yr	331.0	190.00	192.63	192.63	193.61	0.010023	0.98	7.99	7.77	0.19	0.01	43	0.73		
Trib	2073	5yr	522.0	190.00	193.71	193.36	194.66	0.005747	0.95	7.98	7.47	0.13	0.05	70	1.08		
Trib	2073	10yr	713.0	190.00	194.71	194.29	195.41	0.003293	0.70	7.26	5.58	0.07	0.03	128	1.59		
Trib	2073	25yr	1042.0	190.00	195.61		196.23	0.002543	0.62	7.26	5.35	0.06	0.05	195	2.44		
Trib	2073	50yr	1358.0	190.00	196.22		196.88	0.002451	0.66	7.69	5.49	0.06	0.07	248	3.04		
Trib	2073	100yr	1738.0	190.00	196.82	195.90	197.60	0.002745	0.78	8.70	5.17	0.07	0.07	336	3.68		
Trib	2073	500yr	2966.0	190.00	198.74		199.12	0.001156	0.38	6.75	4.28	0.03	0.11	693	5.72		
Trib	2054	1yr	213.0	188.88	191.60	191.60	192.47	0.011421	0.87	7.48	7.42	1.06	0.03	29	0.48		
Trib	2054	2yr	331.0	188.88	192.23	192.23	193.34	0.009918	1.11	8.51	8.29	0.87	0.08	40	0.71		
Trib	2054	5yr	522.0	188.88	193.08	193.08	194.48	0.008498	1.40	9.65	9.10	0.77	0.12	57	1.06		
Trib	2054	10yr	713.0	188.88	194.30	194.30	195.31	0.004398	1.01	8.59	6.76	0.51	0.00	105	1.54		
Trib	2054	25yr	1042.0	188.88	194.99	194.99	196.12	0.004479	1.13	9.54	7.11	0.49	0.00	147	2.37		
Trib	2054	50yr	1358.0	188.88	195.44	195.44	196.75	0.004902	1.31	10.55	7.72	0.48	0.06	176	2.96		
Trib	2054	100yr	1738.0	188.88	195.93	195.93	197.44	0.005237	1.50	11.54	8.22	0.51	0.07	212	3.57		
Trib	2054	500yr	2966.0	188.88	197.45	197.45	198.97	0.004535	1.52	12.45	8.13	0.40	0.11	365	5.52		
Trib	1962	1yr	213.0	186.02	188.79	188.79	189.57	0.011471	0.77	7.06	7.00	0.94	0.05	30	0.41		
Trib	1962	2yr	331.0	186.02	189.43	189.43	190.26	0.008859	0.83	7.46	6.93	0.79	0.03	48	0.61		
Trib	1962	5yr	522.0	186.02	190.08	190.08	191.06	0.008138	0.98	8.33	7.35	0.73	0.01	71	0.92		
Trib	1962	10yr	713.0	186.02	190.64	190.64	191.68	0.006982	1.04	8.77	7.35	0.63	0.01	97	1.32		
Trib	1962	25yr	1042.0	186.02	191.36	191.36	192.50	0.006313	1.14	9.52	7.54	0.54	0.01	138	2.06		
Trib	1962	50yr	1358.0	186.02	191.99	191.99	193.10	0.005366	1.11	9.68	7.43	0.48	0.03	183	2.57		
Trib	1962	100yr	1738.0	186.02	192.40	192.40	193.69	0.005668	1.29	10.53	8.09	0.47	0.03	215	3.12		
Trib	1962	500yr	2966.0	186.02	193.80	193.80	194.95	0.004111	1.15	10.57	7.29	0.36	0.06	407	4.70		
Trib	1885	1yr	213.0	185.52	187.11	187.11	187.71	0.012875	0.59	6.19	6.19	1.79	0.01	34	0.36		
Trib	1885	2yr	331.0	185.52	187.54	187.54	188.29	0.011948	0.75	6.93	6.93	1.51	0.01	48	0.53		
Trib	1885	5yr	522.0	185.52	188.10	188.10	189.05	0.011023	0.95	7.80	7.80	1.29	0.00	67	0.80		
Trib	1885	10yr	713.0	185.52	188.58	188.58	189.68	0.009509	1.10	8.44	8.29	0.65	0.17	86	1.16		
Trib	1885	25yr	1042.0	185.52	189.30	189.30	190.58	0.007901	1.28	9.20	8.70	0.36	0.29	120	1.83		
Trib	1885	50yr	1358.0	185.52	189.85	189.85	191.29	0.007314	1.44	9.87	9.08	0.39	0.31	150	2.28		
Trib	1885	100yr	1738.0	185.52	190.48	190.48	192.03	0.006534	1.55	10.39	9.21	0.44	0.30	189	2.76		
Trib	1885	500yr	2966.0	185.52	192.08	192.08	193.82	0.005235	1.74	11.50	9.12	0.58	0.18	325	4.04		
Trib	1742	1yr	213.0	182.00	184.04	184.04	184.77	0.012218	0.73	6.85	6.85	0.30	0.15	31	0.25		
Trib	1742	2yr	331.0	182.00	184.61	184.61	185.47	0.009426	0.86	7.51	7.20	0.19	0.20	46	0.38		
Trib	1742	5yr	522.0	182.00	185.31	185.31	186.30	0.007565	0.98	8.22	7.35	0.09	0.26	71	0.57		
Trib	1742	10yr	713.0	182.00	186.63		187.15	0.002677	0.52	6.38	5.04	0.05	0.13	142	0.79		
Trib	1742	25yr	1042.0	182.00	188.10		188.42	0.001237	0.32	5.33	4.06	0.03	0.07	257	1.22		
Trib	1742	50yr	1358.0	182.00	188.53		188.94	0.001442	0.41	6.05	4.65	0.04	0.09	292	1.56		
Trib	1742	100yr	1738.0	182.00	188.89		189.43	0.001770	0.54	6.97	5.40	0.04	0.12	322	1.93		
Trib	1742	500yr	2966.0	182.00	189.51		190.65	0.003311	1.14	10.15	7.96	0.07	0.26	373	2.90		
Trib	1688	1yr	213.0	181.00	183.43	182.50	183.67	0.003090	0.24	3.92	3.92			54	0.20		
Trib	1688	2yr	331.0	181.00	184.38	183.07	184.59	0.001798	0.20	3.68	3.32			100	0.29		

HEC-RAS Plan: PostProject_2021-6-10 River: Trib Reach: Trib (Continued)

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Head	Vel Chnl	Vel Total	Frctn Loss	C & E Loss	Flow Area	Volume	Q Weir	Q Culv Group
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft)	(ft/s)	(ft/s)	(ft)	(ft)	(sq ft)	(acre-ft)	(cfs)	(cfs)
Trib	1688	5yr	522.0	181.00	185.73	183.77	185.85	0.000719	0.12	3.09	2.57			203	0.40		
Trib	1688	10yr	713.0	181.00	186.88	184.47	186.98	0.000418	0.10	2.80	2.29			312	0.51		
Trib	1688	25yr	1042.0	181.00	188.22	185.02	188.32	0.000355	0.10	3.02	2.16			483	0.76		
Trib	1688	50yr	1358.0	181.00	188.69	185.45	188.82	0.000407	0.12	3.39	2.40			566	1.03		
Trib	1688	100yr	1738.0	181.00	189.12	185.88	189.27	0.000476	0.15	3.82	2.68			648	1.32		
Trib	1688	500yr	2966.0	181.00	190.06	186.98	190.32	0.000727	0.26	5.11	3.45			860	2.14		
Trib	1648 Parr Mdw Dr	1yr	213.0														213.00
Trib	1648 Parr Mdw Dr	2yr	331.0														331.00
Trib	1648 Parr Mdw Dr	5yr	522.0														522.00
Trib	1648 Parr Mdw Dr	10yr	713.0														713.00
Trib	1648 Parr Mdw Dr	25yr	1042.0													76.23	965.77
Trib	1648 Parr Mdw Dr	50yr	1358.0													322.85	1035.15
Trib	1648 Parr Mdw Dr	100yr	1738.0													658.69	1079.31
Trib	1648 Parr Mdw Dr	500yr	2966.0													1780.13	1185.87
Trib	1614	1yr	213.0	180.50	182.20	182.20	182.76	0.008888	0.56	6.08	5.56	0.23	0.10	38	0.16		
Trib	1614	2yr	331.0	180.50	182.74	182.74	183.18	0.005752	0.44	5.88	4.38	0.24	0.04	76	0.24		
Trib	1614	5yr	522.0	180.50	183.08	183.08	183.60	0.006183	0.51	6.70	4.88	0.29	0.02	107	0.33		
Trib	1614	10yr	713.0	180.50	183.34	183.34	183.93	0.006638	0.60	7.39	5.42	0.32	0.01	132	0.42		
Trib	1614	25yr	1042.0	180.50	183.74	183.74	184.44	0.006841	0.70	8.20	5.99	0.33	0.00	174	0.55		
Trib	1614	50yr	1358.0	180.50	183.95	183.95	184.84	0.008078	0.89	9.29	6.88	0.37	0.02	197	0.66		
Trib	1614	100yr	1738.0	180.50	184.35	184.35	185.29	0.007527	0.94	9.64	7.12	0.36	0.00	244	0.80		
Trib	1614	500yr	2966.0	180.50	185.19	185.19	186.42	0.007628	1.23	11.08	8.40	0.36	0.01	353	1.19		
Trib	1593	1yr	213.0	181.33	182.15	182.10	182.37	0.012282	0.22	3.74	3.74	1.54	0.00	57	0.14		
Trib	1593	2yr	331.0	181.33	182.31	182.28	182.63	0.013416	0.32	4.56	4.56	1.55	0.00	73	0.18		
Trib	1593	5yr	522.0	181.33	182.53	182.53	182.99	0.013776	0.46	5.47	5.47	1.50	0.01	95	0.24		
Trib	1593	10yr	713.0	181.33	182.74	182.74	183.31	0.012870	0.56	6.03	6.03	1.41	0.01	118	0.30		
Trib	1593	25yr	1042.0	181.33	183.08	183.08	183.79	0.011809	0.71	6.76	6.76	1.30	0.01	154	0.39		
Trib	1593	50yr	1358.0	181.33	183.36	183.36	184.19	0.011217	0.84	7.35	7.35	1.24	0.02	185	0.47		
Trib	1593	100yr	1738.0	181.33	183.66	183.66	184.64	0.010685	0.98	7.93	7.93	1.18	0.03	219	0.56		
Trib	1593	500yr	2966.0	181.33	184.52	184.52	185.86	0.009163	1.34	9.29	9.21	1.04	0.05	322	0.83		
Trib	1484	1yr	213.0	179.99	180.57	180.57	180.83	0.016528	0.26	4.08	4.08			52			
Trib	1484	2yr	331.0	179.99	180.75	180.75	181.09	0.015100	0.34	4.66	4.66			71			
Trib	1484	5yr	522.0	179.99	181.00	181.00	181.44	0.013746	0.44	5.35	5.35			98			
Trib	1484	10yr	713.0	179.99	181.21	181.21	181.75	0.013042	0.54	5.88	5.88			121			
Trib	1484	25yr	1042.0	179.99	181.53	181.53	182.20	0.012123	0.67	6.56	6.56			159			
Trib	1484	50yr	1358.0	179.99	181.80	181.80	182.58	0.011558	0.78	7.07	7.07			192			
Trib	1484	100yr	1738.0	179.99	182.10	182.10	182.99	0.011058	0.89	7.57	7.57			230			
Trib	1484	500yr	2966.0	179.99	182.91	182.91	184.07	0.010106	1.16	8.65	8.65			343			

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HEC-HMS Summary Hydrologic Output

Project: Overloook_Pond
Simulation Run: 1 year
Simulation Start: 18 March 2021, 24:00
Simulation End: 19 March 2021, 24:00

HMS Version: 4.8
Executed: 03 June 2021, 18:30

Global Parameter Summary - Subbasin

Area (ft²)

Element Name	Area (ft²)
Subbasin - 1	2.07

Downstream

Element Name	Downstream
Subbasin - 1	Sink - 1

Loss Rate: Scs

Element Name	Percent Impervious Area	Curve Number
Subbasin - 1	0	75

Transform: Scs

Element Name	Lag	Unitgraph Type
Subbasin - 1	96.7	Standard

Global Results Summary

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Subbasin - 1	2.07	213.41	19Mar2021, 14:00	0.68
Sink - 1	2.07	213.41	19Mar2021, 14:00	0.68

Subbasin: Subbasin-1

Area (ft^2) : 2.07
Downstream : Sink - 1

Loss Rate: Scs

Percent Impervious Area	0
Curve Number	75

Transform: Scs

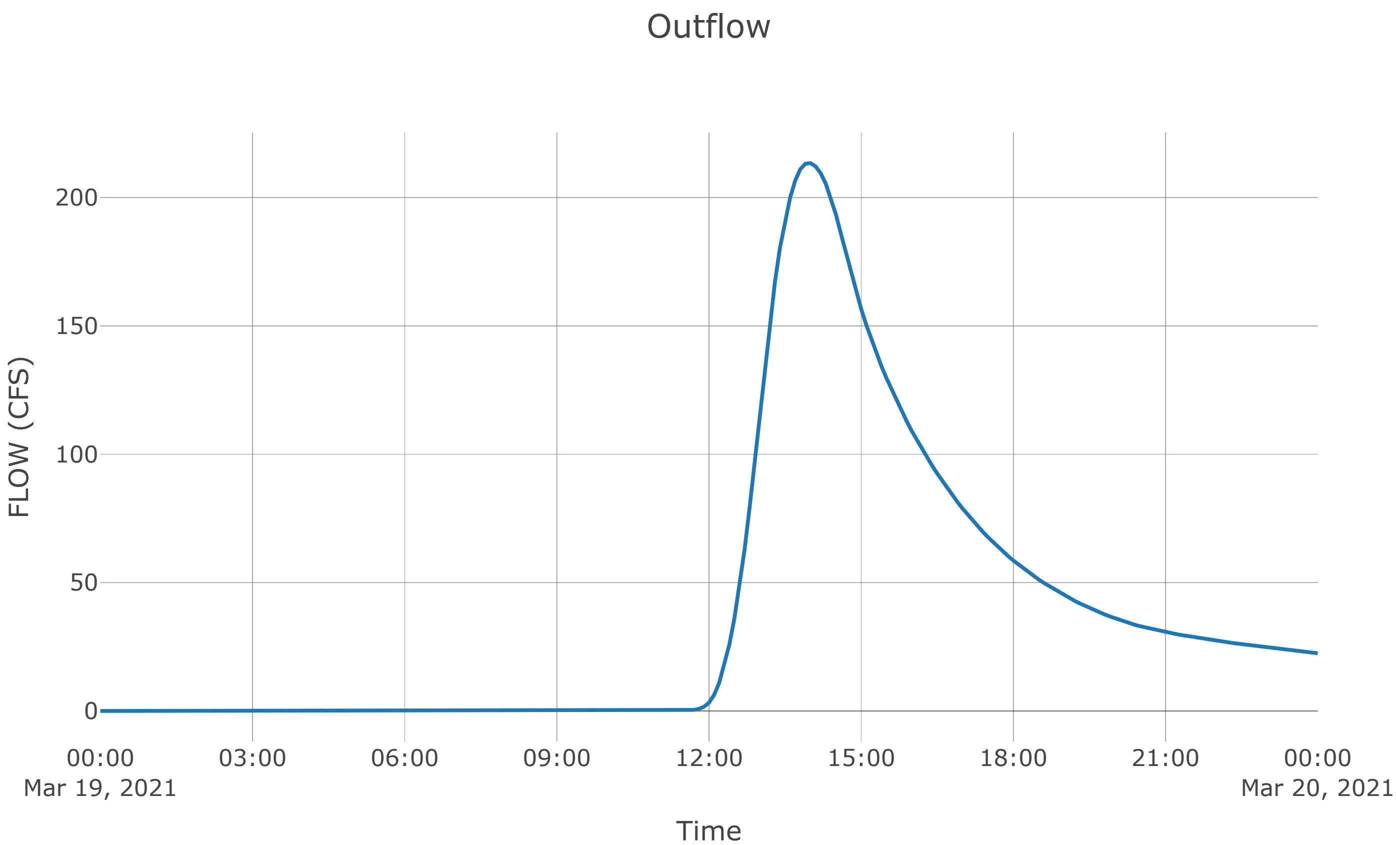
Lag	96.7
Unitgraph Type	Standard

Results: Subbasin-1

Peak Discharge (CFS)	213.41
Time of Peak Discharge	19Mar2021, 14:00
Volume (IN)	0.68
Precipitation Volume (AC - FT)	288.14
Loss Volume (AC - FT)	209.13
Excess Volume (AC - FT)	79.01
Direct Runoff Volume (AC - FT)	75.42
Baseflow Volume (AC - FT)	0

Sink: Sink-1

Results: Sink-1	
Peak Discharge (CFS)	213.41
Time of Peak Discharge	19Mar2021, 14:00
Volume (IN)	0.68



Project: Overloook_Pond
Simulation Run: 2 year
Simulation Start: 18 March 2021, 24:00
Simulation End: 19 March 2021, 24:00

HMS Version: 4.8
Executed: 25 May 2021, 17:00

Global Parameter Summary - Subbasin

Area (ft^2)

Element Name	Area (ft^2)
Subbasin - 1	2.07

Downstream

Element Name	Downstream
Subbasin - 1	Sink - 1

Loss Rate: Scs

Element Name	Percent Impervious Area	Curve Number
Subbasin - 1	0	75

Transform: Scs

Element Name	Lag	Unitgraph Type
Subbasin - 1	96.7	Standard

Global Results Summary

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Subbasin - 1	2.07	331.18	19Mar2021, 13:54	1.02
Sink - 1	2.07	331.18	19Mar2021, 13:54	1.02

Subbasin: Subbasin-1

Area (ft^2) : 2.07
Downstream : Sink - 1

Loss Rate: Scs

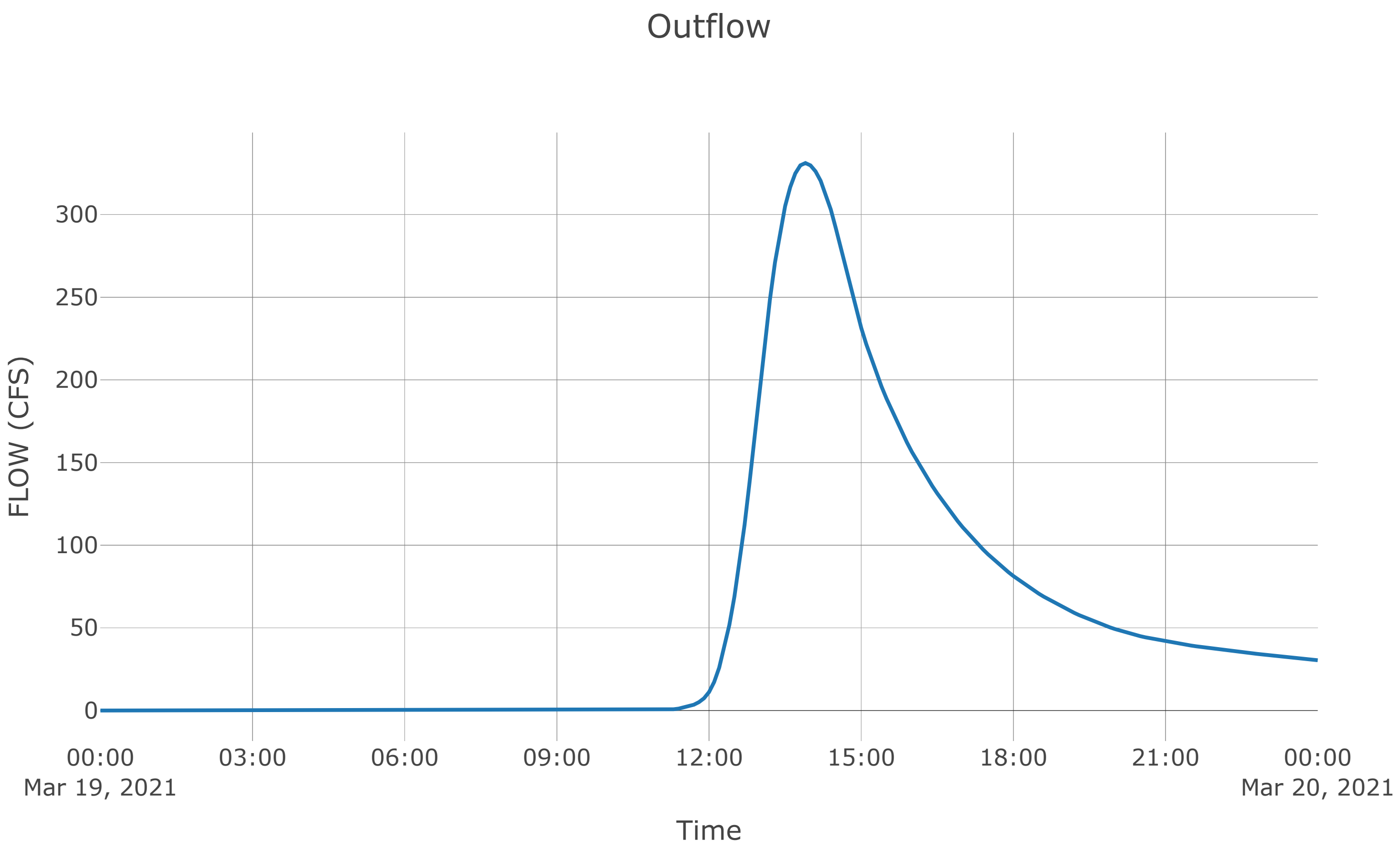
Percent Impervious Area	0
Curve Number	75

Transform: Scs

Lag	96.7
Unitgraph Type	Standard

Results: Subbasin-1

Peak Discharge (CFS)	331.18
Time of Peak Discharge	19Mar2021, 13:54
Volume (IN)	1.02
Precipitation Volume (AC - FT)	347.76
Loss Volume (AC - FT)	230.71
Excess Volume (AC - FT)	117.05
Direct Runoff Volume (AC - FT)	112.19
Baseflow Volume (AC - FT)	0


Outflow
FLOW (CFS)
300
250
200
150
100
50
0
00:00
Mar 19, 2021
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
Mar 20, 2021
Time

Project: Overloook_Pond
Simulation Run: 5 year
Simulation Start: 18 March 2021, 24:00
Simulation End: 19 March 2021, 24:00

HMS Version: 4.8
Executed: 25 May 2021, 17:00

Global Parameter Summary - Subbasin

Area (ft^2)

Element Name	Area (ft^2)
Subbasin - 1	2.07

Downstream

Element Name	Downstream
Subbasin - 1	Sink - 1

Loss Rate: Scs

Element Name	Percent Impervious Area	Curve Number
Subbasin - 1	0	75

Transform: Scs

Element Name	Lag	Unitgraph Type
Subbasin - 1	96.7	Standard

Global Results Summary

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Subbasin - 1	2.07	521.54	19Mar2021, 13:48	1.55
Sink - 1	2.07	521.54	19Mar2021, 13:48	1.55

Subbasin: Subbasin-1

Area (ft^2) : 2.07
Downstream : Sink - 1

Loss Rate: Scs

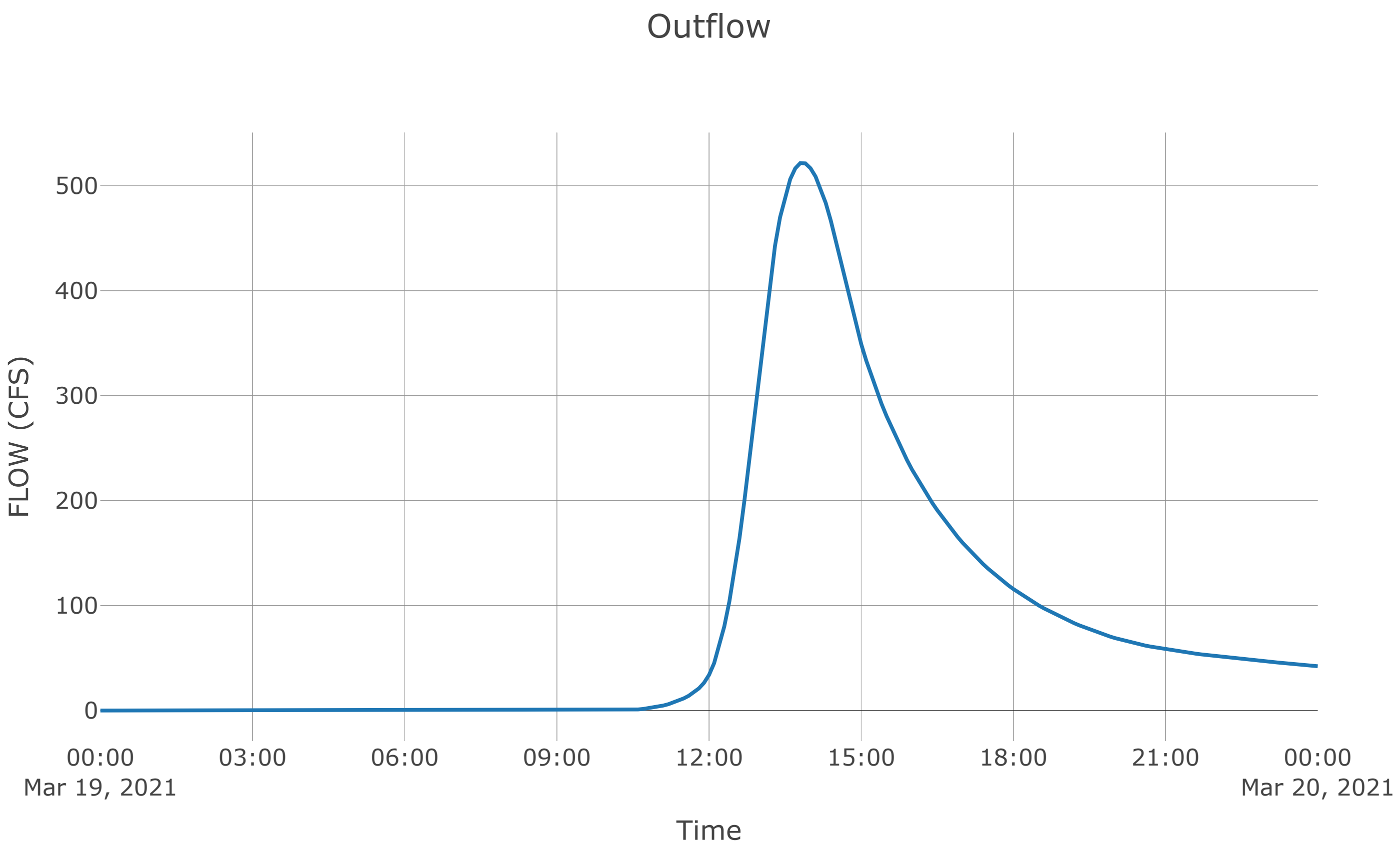
Percent Impervious Area	0
Curve Number	75

Transform: Scs

Lag	96.7
Unitgraph Type	Standard

Results: Subbasin-1

Peak Discharge (CFS)	521.54
Time of Peak Discharge	19Mar2021, 13:48
Volume (IN)	1.55
Precipitation Volume (AC - FT)	433.87
Loss Volume (AC - FT)	255.65
Excess Volume (AC - FT)	178.22
Direct Runoff Volume (AC - FT)	171.49
Baseflow Volume (AC - FT)	0



Outflow
FLOW (CFS)
500
400
300
200
100
0
00:00
Mar 19, 2021
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
Mar 20, 2021
Time

Project: Overloook_Pond
Simulation Run: 10 year
Simulation Start: 18 March 2021, 24:00
Simulation End: 19 March 2021, 24:00

HMS Version: 4.8
Executed: 25 May 2021, 17:00

Global Parameter Summary - Subbasin

Area (ft^2)

Element Name	Area (ft^2)
Subbasin - 1	2.07

Downstream

Element Name	Downstream
Subbasin - 1	Sink - 1

Loss Rate: Scs

Element Name	Percent Impervious Area	Curve Number
Subbasin - 1	0	75

Transform: Scs

Element Name	Lag	Unitgraph Type
Subbasin - 1	96.7	Standard

Global Results Summary

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Subbasin - 1	2.07	712.75	19Mar2021, 13:48	2.09
Sink - 1	2.07	712.75	19Mar2021, 13:48	2.09

Subbasin: Subbasin-1

Area (ft^2) : 2.07
Downstream : Sink - 1

Loss Rate: Scs

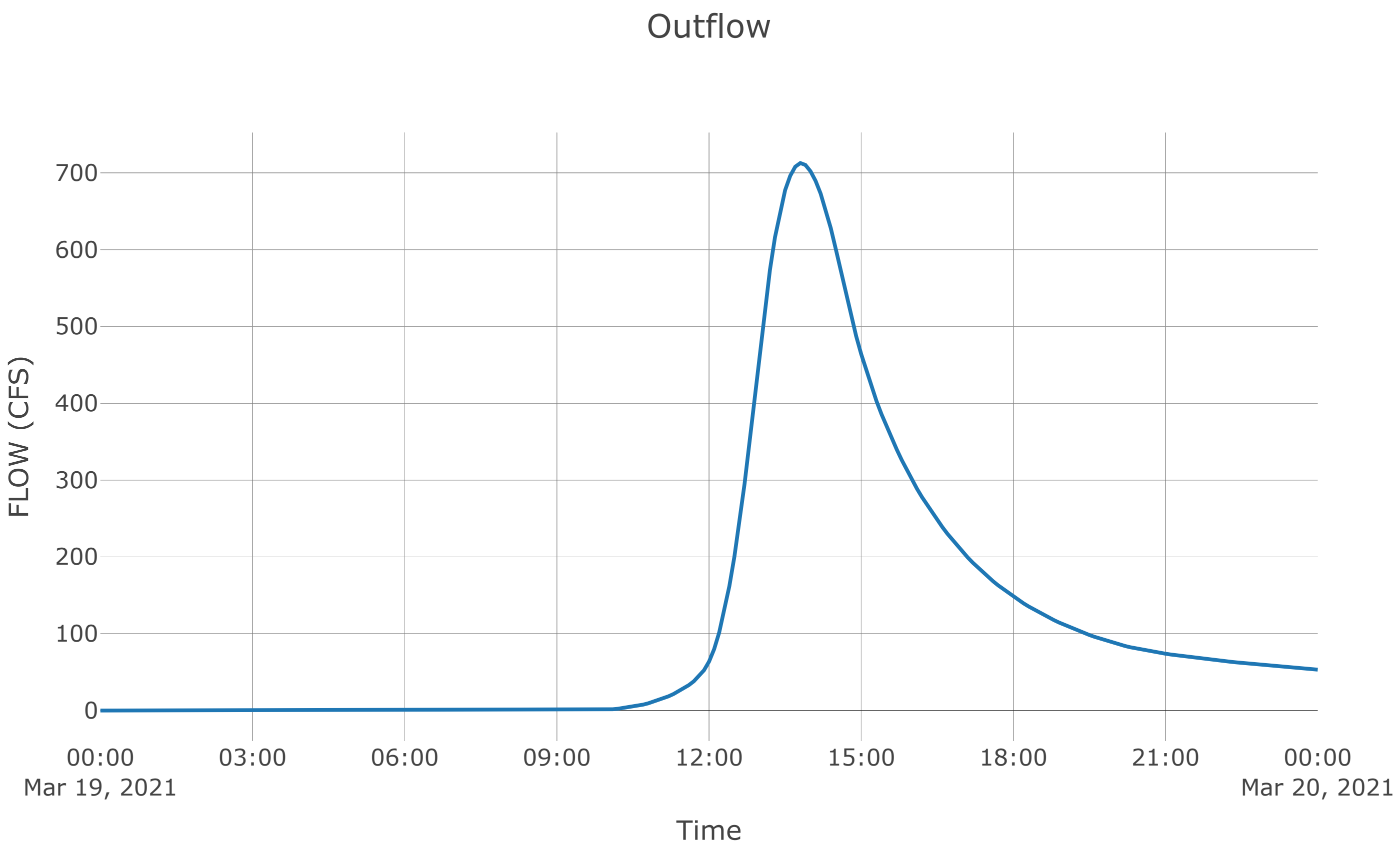
Percent Impervious Area	0
Curve Number	75

Transform: Scs

Lag	96.7
Unitgraph Type	Standard

Results: Subbasin-1

Peak Discharge (CFS)	712.75
Time of Peak Discharge	19Mar2021, 13:48
Volume (IN)	2.09
Precipitation Volume (AC - FT)	513.36
Loss Volume (AC - FT)	273.95
Excess Volume (AC - FT)	239.41
Direct Runoff Volume (AC - FT)	230.92
Baseflow Volume (AC - FT)	0



Outflow
FLOW (CFS)
700
600
500
400
300
200
100
0
00:00
Mar 19, 2021
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
Mar 20, 2021
Time

Project: Overloook_Pond
Simulation Run: 25 year
Simulation Start: 18 March 2021, 24:00
Simulation End: 19 March 2021, 24:00

HMS Version: 4.8
Executed: 25 May 2021, 17:00

Global Parameter Summary - Subbasin

Area (ft^2)

Element Name	Area (ft^2)
Subbasin - 1	2.07

Downstream

Element Name	Downstream
Subbasin - 1	Sink - 1

Loss Rate: Scs

Element Name	Percent Impervious Area	Curve Number
Subbasin - 1	0	75

Transform: Scs

Element Name	Lag	Unitgraph Type
Subbasin - 1	96.7	Standard

Global Results Summary

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Subbasin - 1	2.07	1041.65	19Mar2021, 13:48	3.03
Sink - 1	2.07	1041.65	19Mar2021, 13:48	3.03

Subbasin: Subbasin-1

Area (ft^2) : 2.07
Downstream : Sink - 1

Loss Rate: Scs

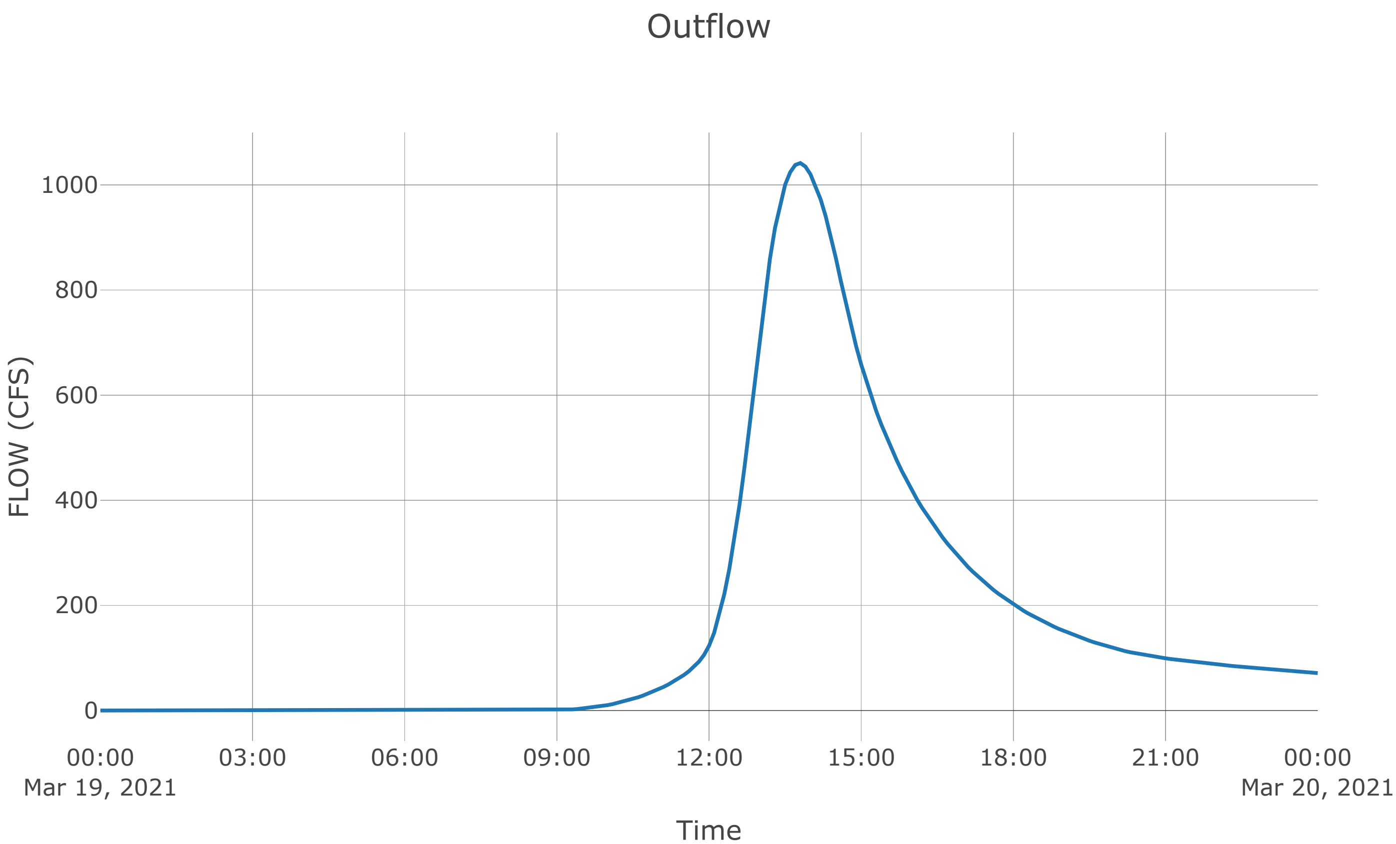
Percent Impervious Area	0
Curve Number	75

Transform: Scs

Lag	96.7
Unitgraph Type	Standard

Results: Subbasin-1

Peak Discharge (CFS)	1041.65
Time of Peak Discharge	19Mar2021, 13:48
Volume (IN)	3.03
Precipitation Volume (AC - FT)	642.53
Loss Volume (AC - FT)	297.06
Excess Volume (AC - FT)	345.47
Direct Runoff Volume (AC - FT)	334.11
Baseflow Volume (AC - FT)	0


Outflow
FLOW (CFS)
1000
800
600
400
200
0
00:00
Mar 19, 2021
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
Mar 20, 2021
Time

Project: Overloook_Pond
Simulation Run: 50 year
Simulation Start: 18 March 2021, 24:00
Simulation End: 19 March 2021, 24:00

HMS Version: 4.8
Executed: 25 May 2021, 17:00

Global Parameter Summary - Subbasin

Area (ft^2)

Element Name	Area (ft^2)
Subbasin - 1	2.07

Downstream

Element Name	Downstream
Subbasin - 1	Sink - 1

Loss Rate: Scs

Element Name	Percent Impervious Area	Curve Number
Subbasin - 1	0	75

Transform: Scs

Element Name	Lag	Unitgraph Type
Subbasin - 1	96.7	Standard

Global Results Summary

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Subbasin - 1	2.07	1357.56	19Mar2021, 13:48	3.93
Sink - 1	2.07	1357.56	19Mar2021, 13:48	3.93

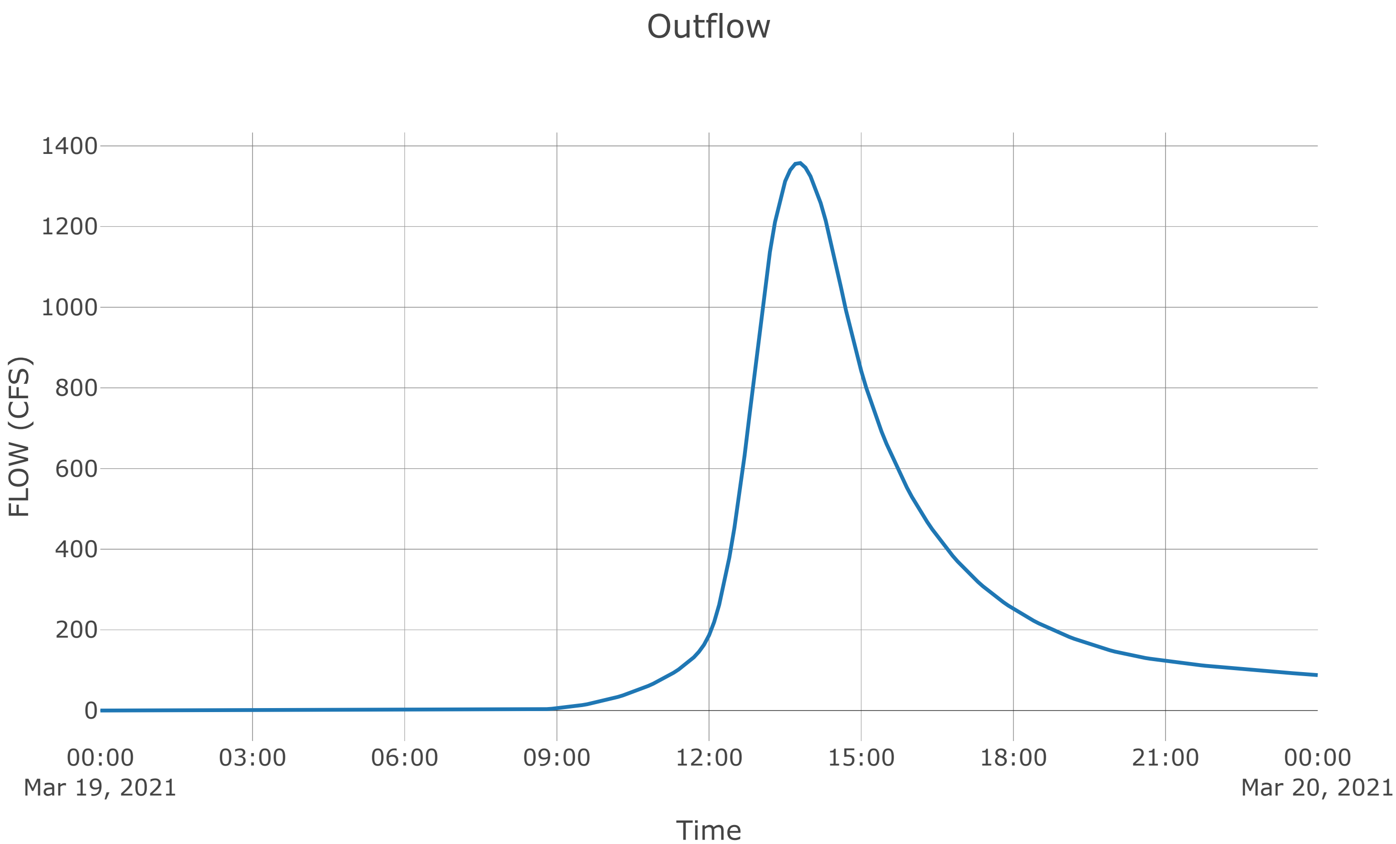
Subbasin: Subbasin-1

Area (ft^2) : 2.07
Downstream : Sink - 1

Loss Rate: Scs	
Percent Impervious Area	0
Curve Number	75

Transform: Scs	
Lag	96.7
Unitgraph Type	Standard

Results: Subbasin-1	
Peak Discharge (CFS)	1357.56
Time of Peak Discharge	19Mar2021, 13:48
Volume (IN)	3.93
Precipitation Volume (AC - FT)	761.76
Loss Volume (AC - FT)	313.38
Excess Volume (AC - FT)	448.38
Direct Runoff Volume (AC - FT)	434.38
Baseflow Volume (AC - FT)	0


Outflow
FLOW (CFS)
1400
1200
1000
800
600
400
200
0
00:00
Mar 19, 2021
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
Mar 20, 2021
Time

Project: Overloook_Pond
Simulation Run: 100-yr
Simulation Start: 18 March 2021, 24:00
Simulation End: 19 March 2021, 24:00

HMS Version: 4.8
Executed: 25 May 2021, 17:00

Global Parameter Summary - Subbasin

Area (ft^2)

Element Name	Area (ft^2)
Subbasin - 1	2.07

Downstream

Element Name	Downstream
Subbasin - 1	Sink - 1

Loss Rate: Scs

Element Name	Percent Impervious Area	Curve Number
Subbasin - 1	0	75

Transform: Scs

Element Name	Lag	Unitgraph Type
Subbasin - 1	96.7	Standard

Global Results Summary

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Subbasin - 1	2.07	1737.98	19Mar2021, 13:42	5.04
Sink - 1	2.07	1737.98	19Mar2021, 13:42	5.04

Subbasin: Subbasin-1

Area (ft^2) : 2.07
Downstream : Sink - 1

Loss Rate: Scs

Percent Impervious Area	0
Curve Number	75

Transform: Scs

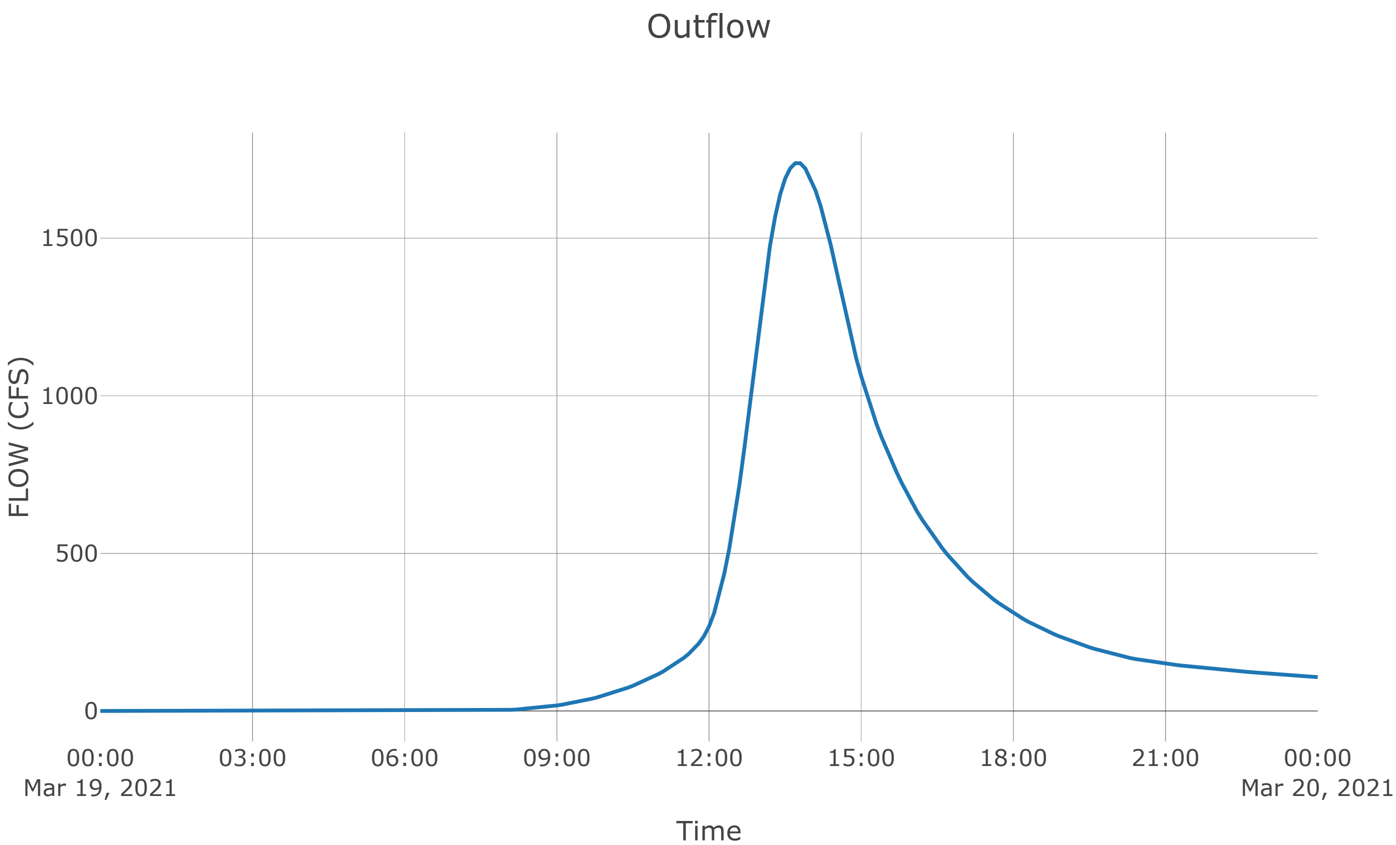
Lag	96.7
Unitgraph Type	Standard

Results: Subbasin-1

Peak Discharge (CFS)	1737.98
Time of Peak Discharge	19Mar2021, 13:42
Volume (IN)	5.04
Precipitation Volume (AC - FT)	901.97
Loss Volume (AC - FT)	328.4
Excess Volume (AC - FT)	573.56
Direct Runoff Volume (AC - FT)	556.47
Baseflow Volume (AC - FT)	0

Sink: Sink-1

Results: Sink-1	
Peak Discharge (CFS)	1737.98
Time of Peak Discharge	19Mar2021, 13:42
Volume (IN)	5.04



Project: Overloook_Pond
Simulation Run: 500-yr
Simulation Start: 18 March 2021, 24:00
Simulation End: 19 March 2021, 24:00

HMS Version: 4.8
Executed: 25 May 2021, 17:00

Global Parameter Summary - Subbasin

Area (ft²)

Element Name	Area (ft²)
Subbasin - 1	2.07

Downstream

Element Name	Downstream
Subbasin - 1	Sink - 1

Loss Rate: Scs

Element Name	Percent Impervious Area	Curve Number
Subbasin - 1	0	75

Transform: Scs

Element Name	Lag	Unitgraph Type
Subbasin - 1	96.7	Standard

Global Results Summary

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Subbasin - 1	2.07	2965.65	19Mar2021, 13:42	8.67
Sink - 1	2.07	2965.65	19Mar2021, 13:42	8.67

Subbasin: Subbasin-1

Area (ft^2) : 2.07
Downstream : Sink - 1

Loss Rate: Scs

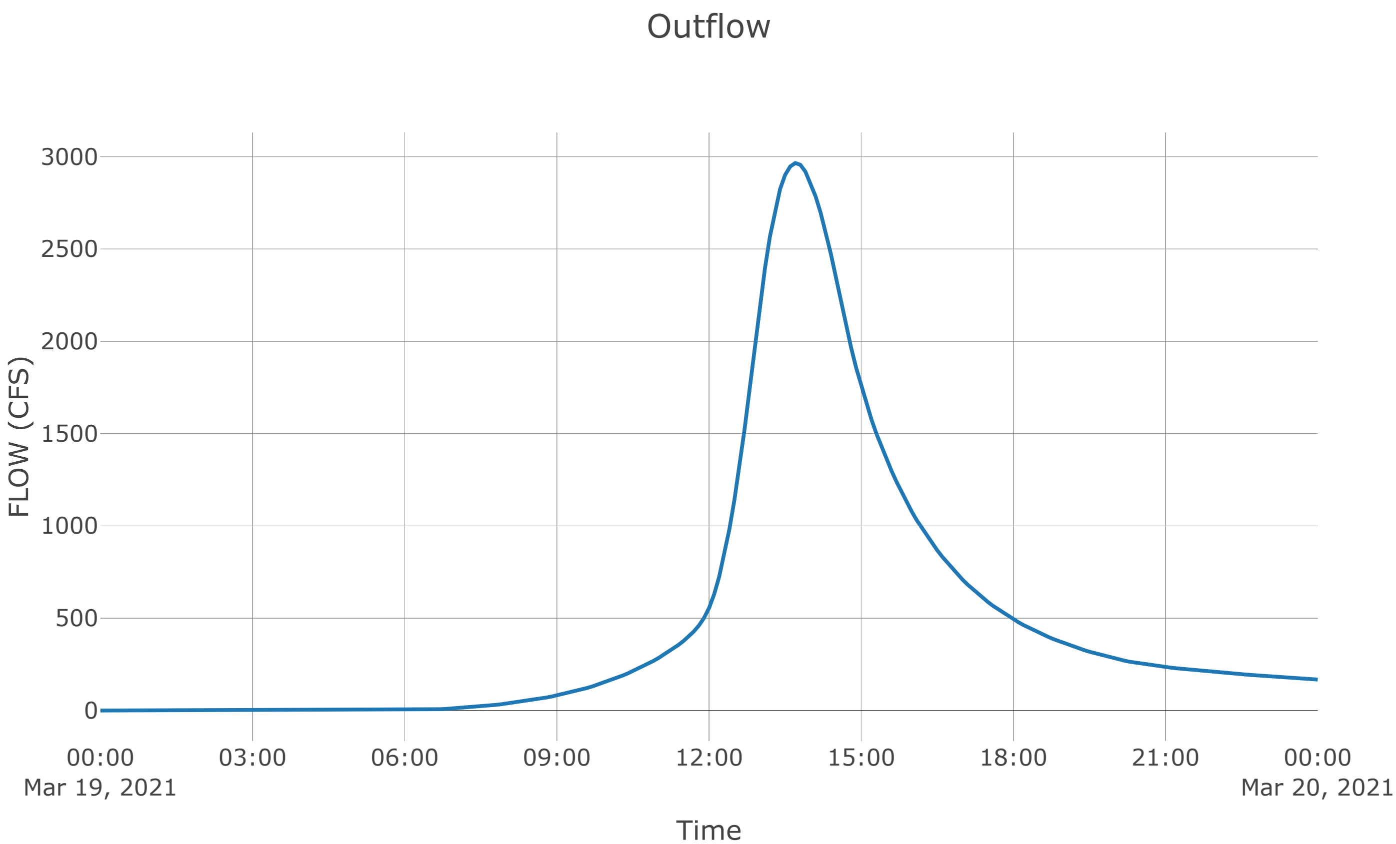
Percent Impervious Area	0
Curve Number	75

Transform: Scs

Lag	96.7
Unitgraph Type	Standard

Results: Subbasin-1

Peak Discharge (CFS)	2965.65
Time of Peak Discharge	19Mar2021, 13:42
Volume (IN)	8.67
Precipitation Volume (AC - FT)	1342.46
Loss Volume (AC - FT)	358.87
Excess Volume (AC - FT)	983.6
Direct Runoff Volume (AC - FT)	956.89
Baseflow Volume (AC - FT)	0


Outflow
FLOW (CFS)
3000
2500
2000
1500
1000
500
0
00:00
Mar 19, 2021
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
Mar 20, 2021
Time

LJA Leonard Jackson Associates Consulting Engineers

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Overtopping Analysis

Overlook Farms
6/15/2021

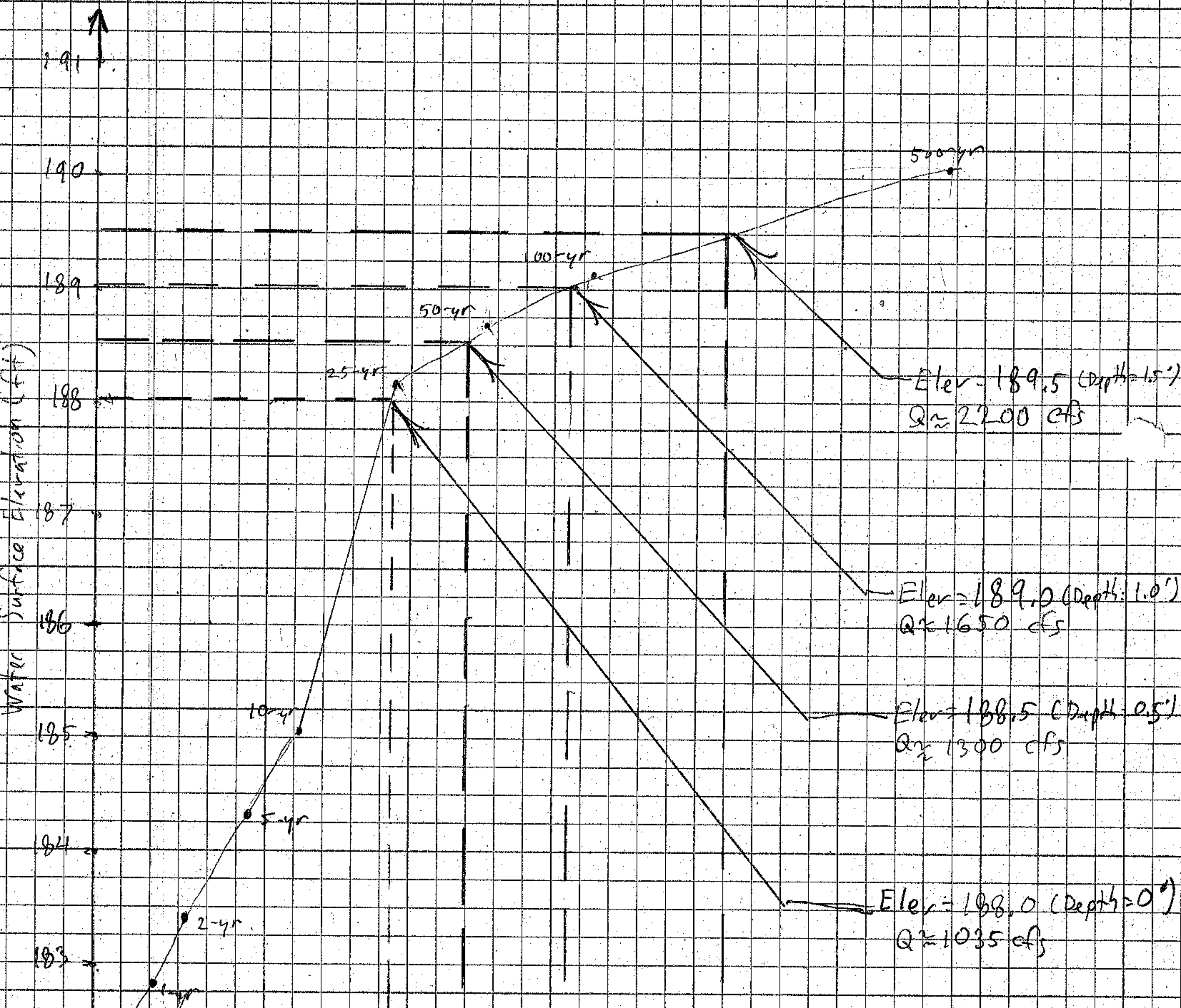
Table 1

Duration and Depth of overtopping at Parr Meadow Drive

Frequency (Year)	Water Surface Elevation (ft)	Low Point on Road (ft)	Max Depth (ft)	6 Inch Depth Duration (Hours)	1 Foot Depth Duration (Hours)	1.5 Foot Depth Duration (Hours)
500	190.06	188.00	2.06	3	2.3	1.5
100	189.12	188.00	1.12	1.5	0.6	0
50	188.69	188.00	0.69	0.75	0	0
25	188.22	188.00	0.22	0	0	0
10	185.05	188.00	0.00	0	0	0
5	184.28	188.00	0.00	0	0	0
2	183.41	188.00	0.00	0	0	0
1	182.80	188.00	0.00	0	0	0

Harr Meadow Drive Elevation Vs. Discharge

Freq	Discharge	Elevation
1	219	182.80
2	331	183.41
5	522	184.28
10	713	185.05
25	1042	188.22
50	1358	188.69
100	1738	189.12
500	2966	190.06

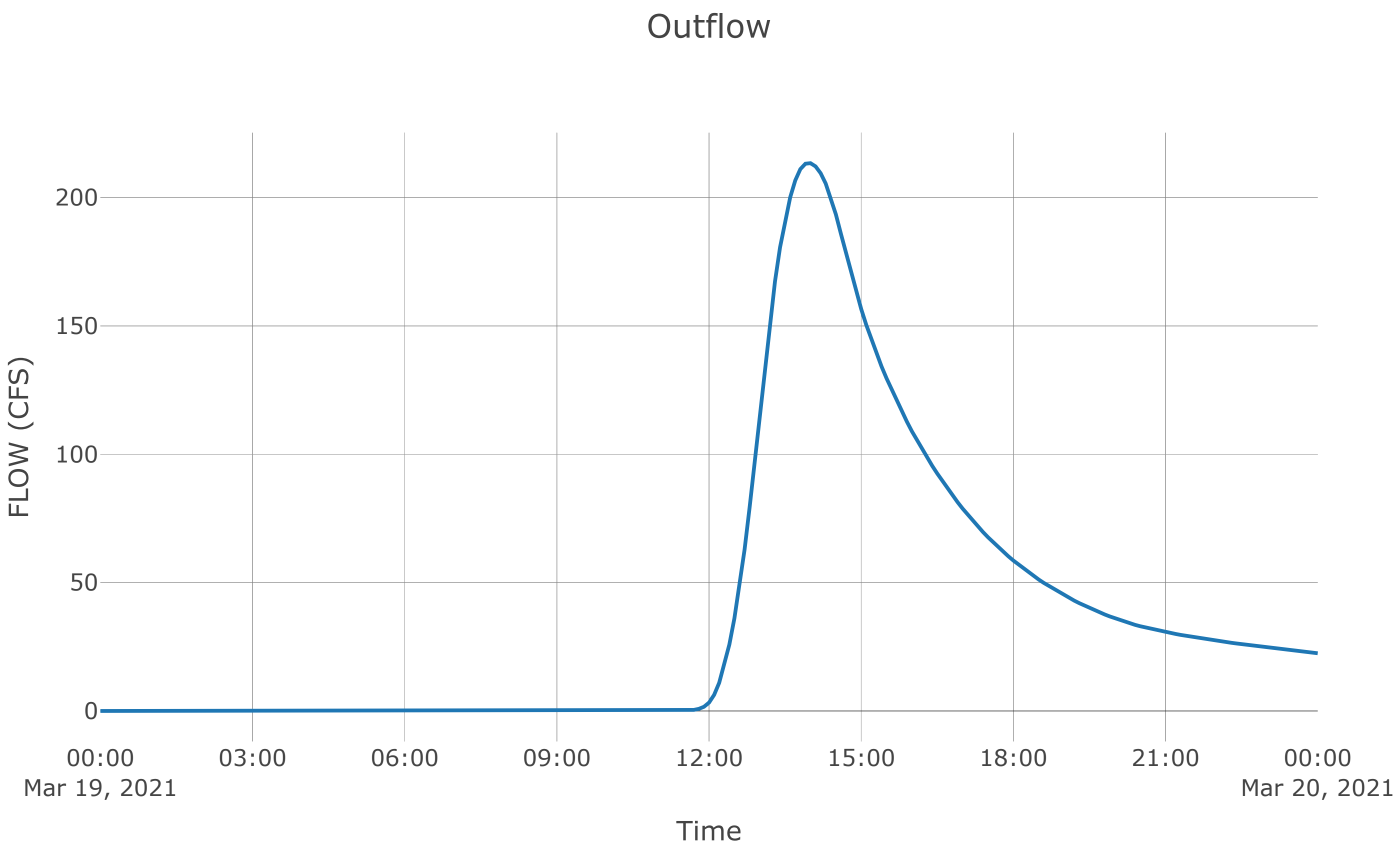


Sink: Sink-1

1 YEAR FREQUENCY

Results: Sink-1

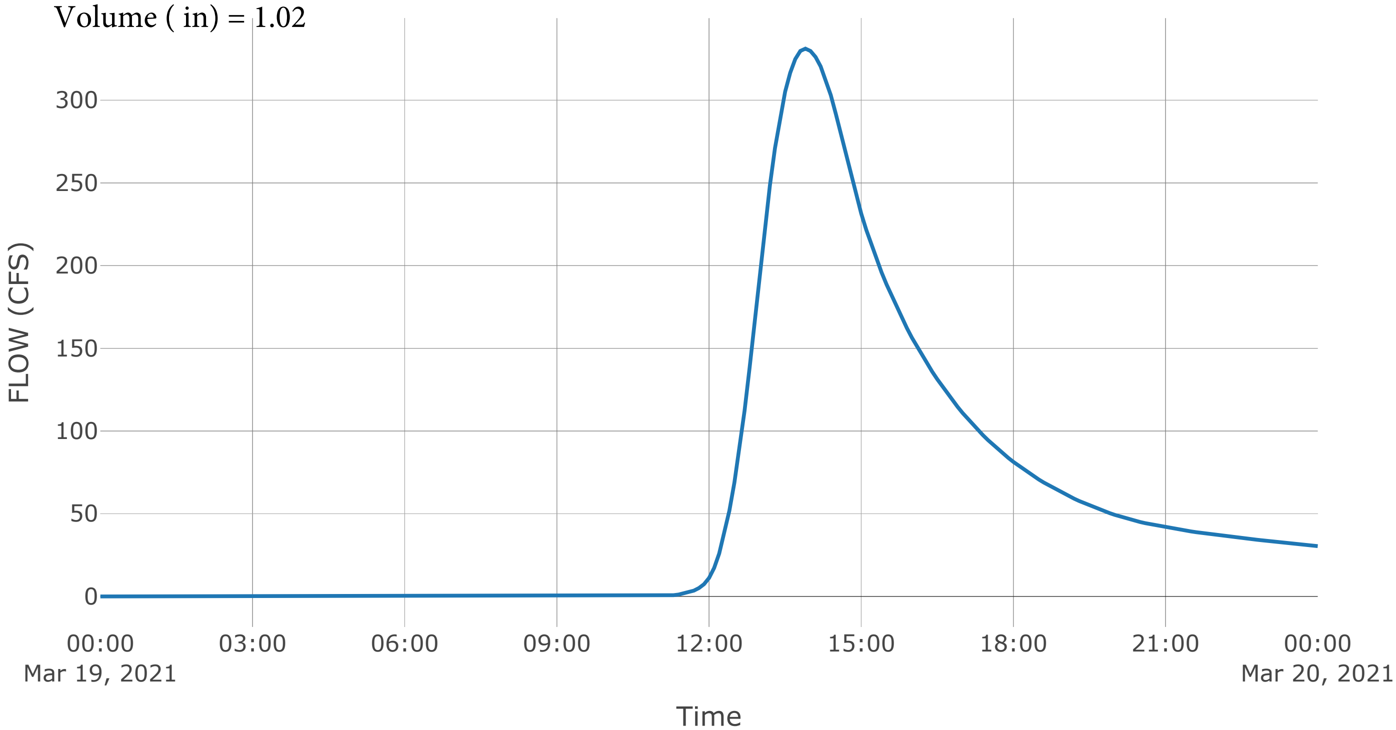
Peak Discharge (CFS)	213.41
Time of Peak Discharge	19Mar2021, 14:00
Volume (IN)	0.68



2 YEAR FREQUENCY

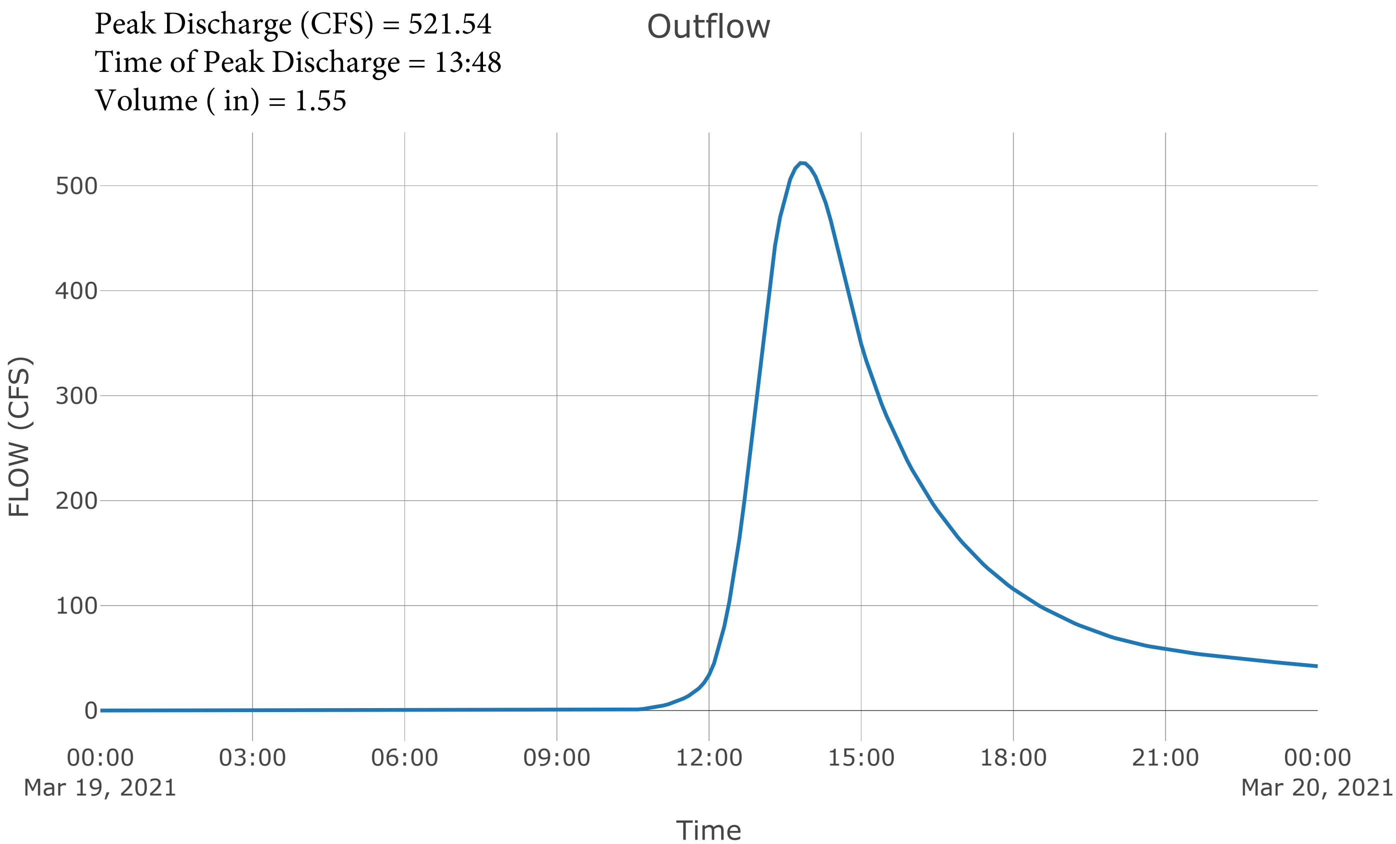
Outflow

Peak Discharge(CFS) = 331.18
Time of Peak Discharge = 13:54
Volume (in) = 1.02



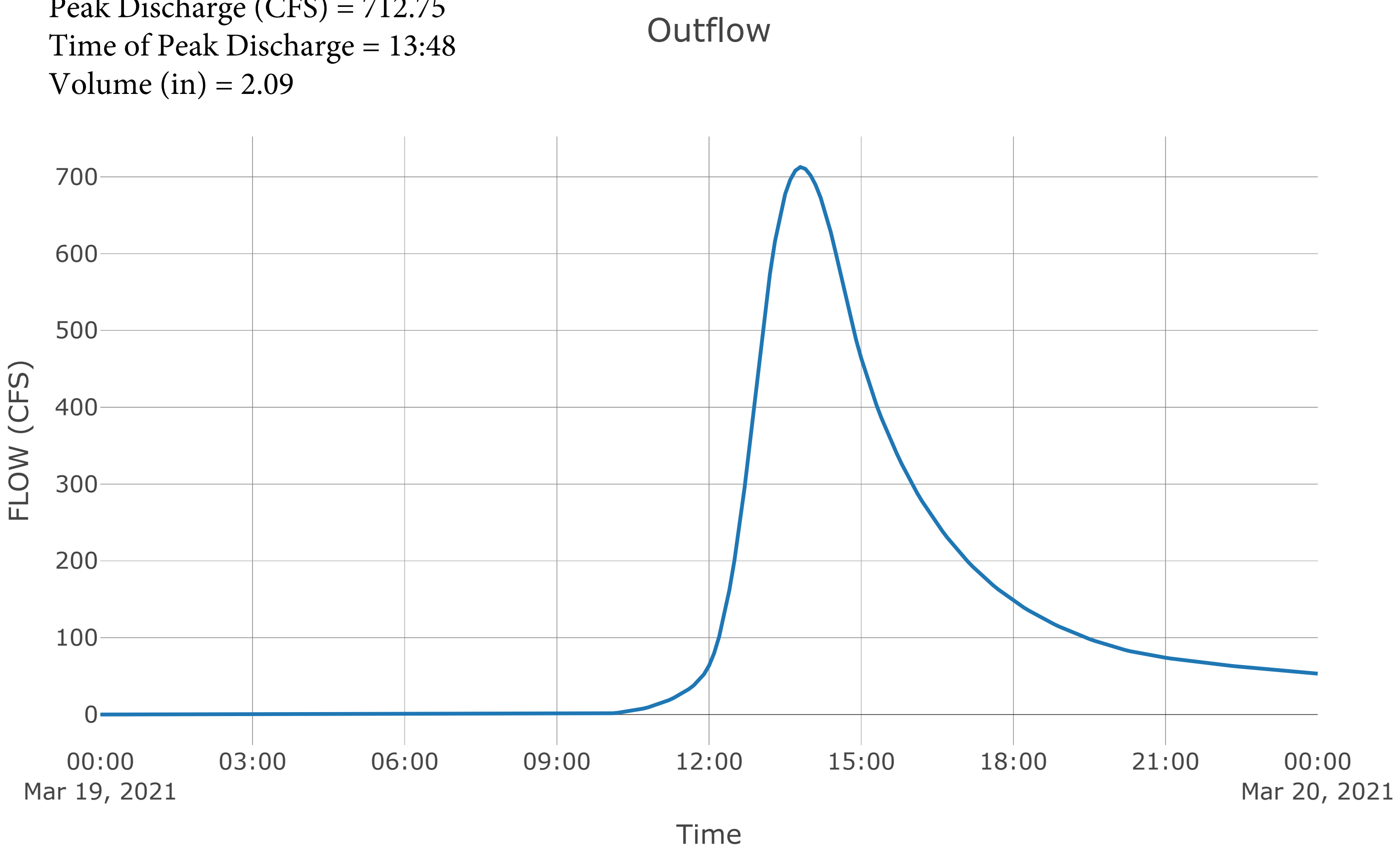
5 YEAR FREQUENCY

Peak Discharge (CFS) = 521.54
Time of Peak Discharge = 13:48
Volume (in) = 1.55



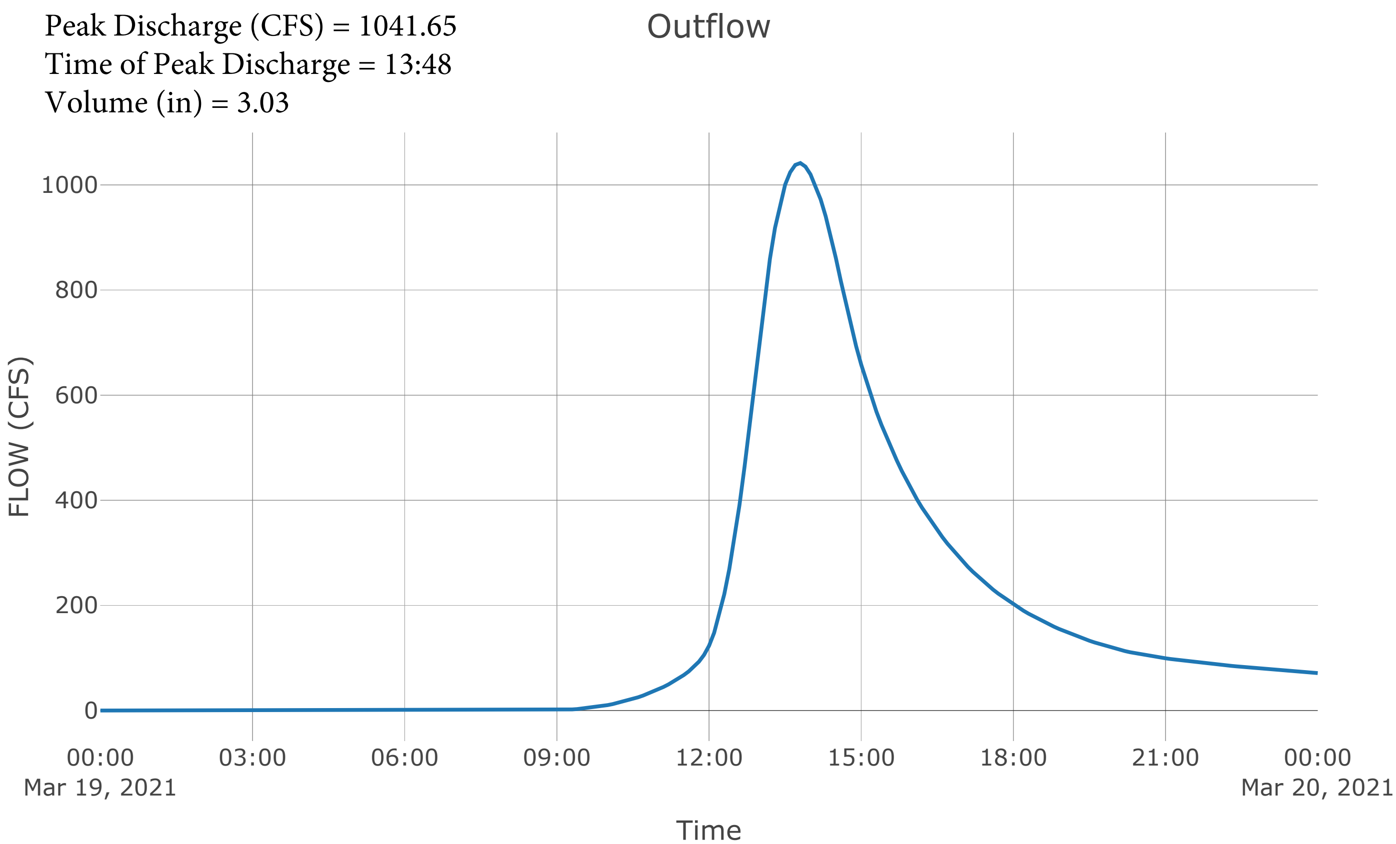
Peak Discharge (CFS) = 712.75
Time of Peak Discharge = 13:48
Volume (in) = 2.09

10 YEAR FREQUENCY



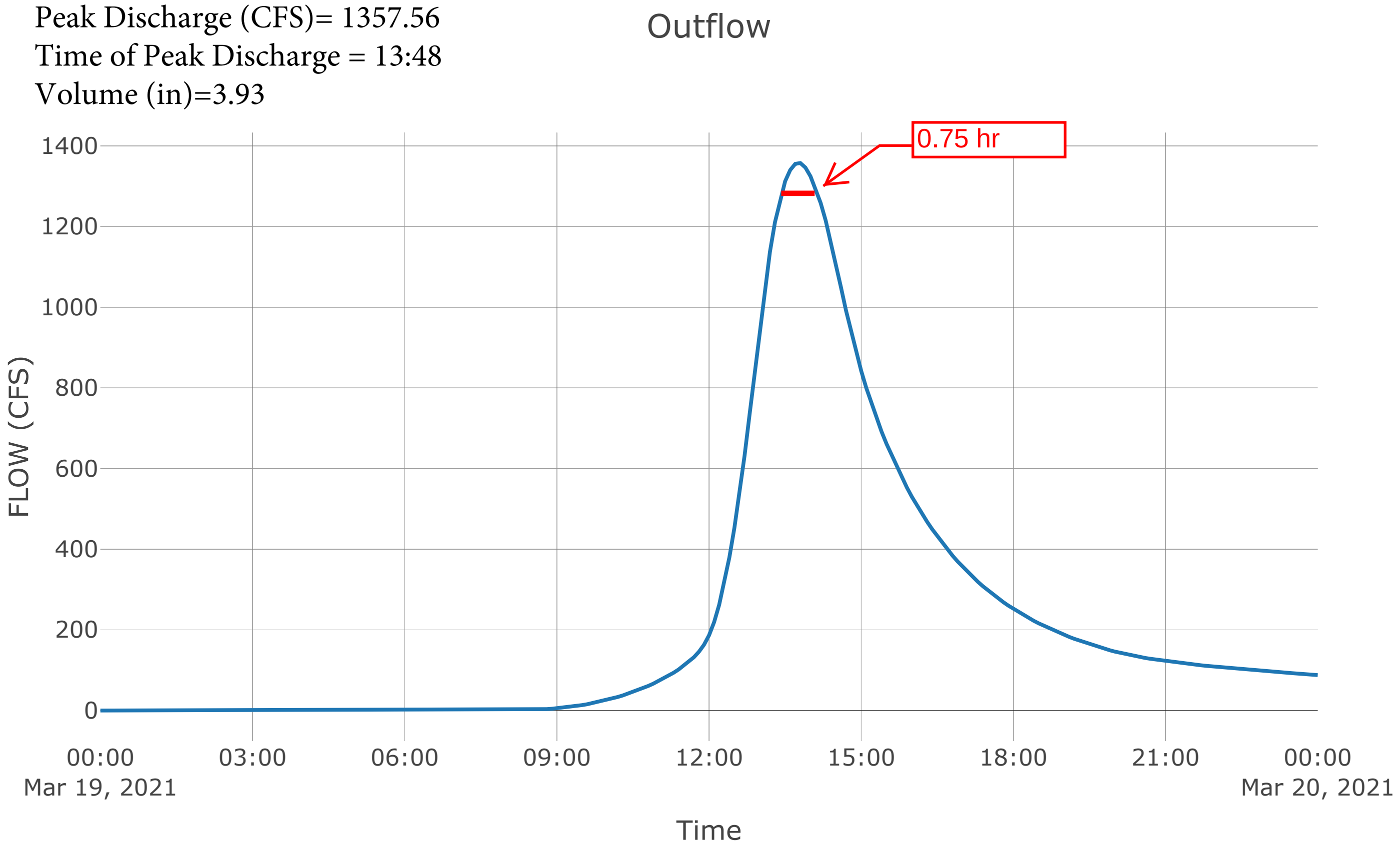
25 YEAR FREQUENCY

Peak Discharge (CFS) = 1041.65
Time of Peak Discharge = 13:48
Volume (in) = 3.03



50 YEAR FREQUENCY

Peak Discharge (CFS)= 1357.56
Time of Peak Discharge = 13:48
Volume (in)=3.93

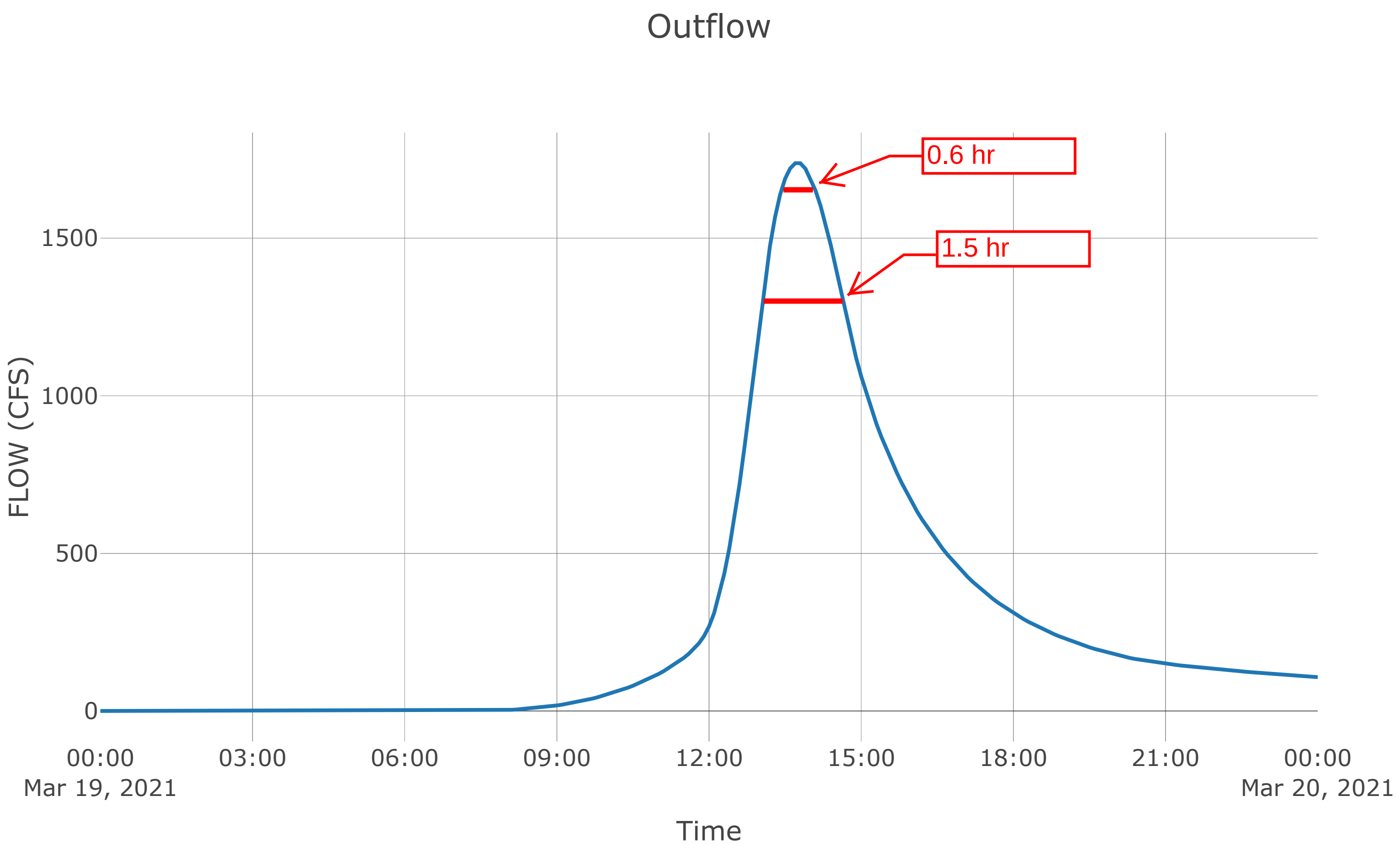


Sink: Sink-1

100 YEAR FREQUENCY

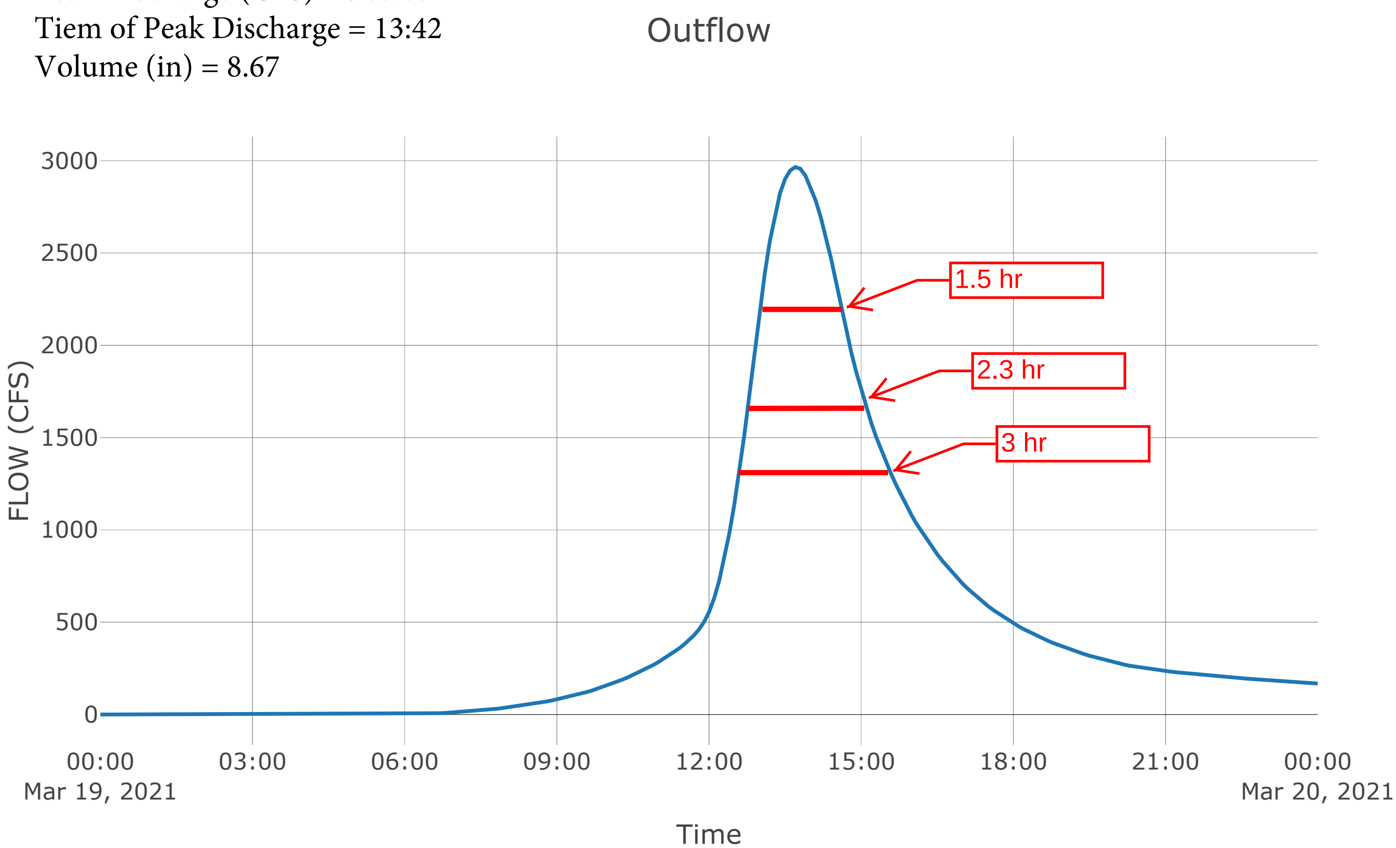
Results: Sink-1

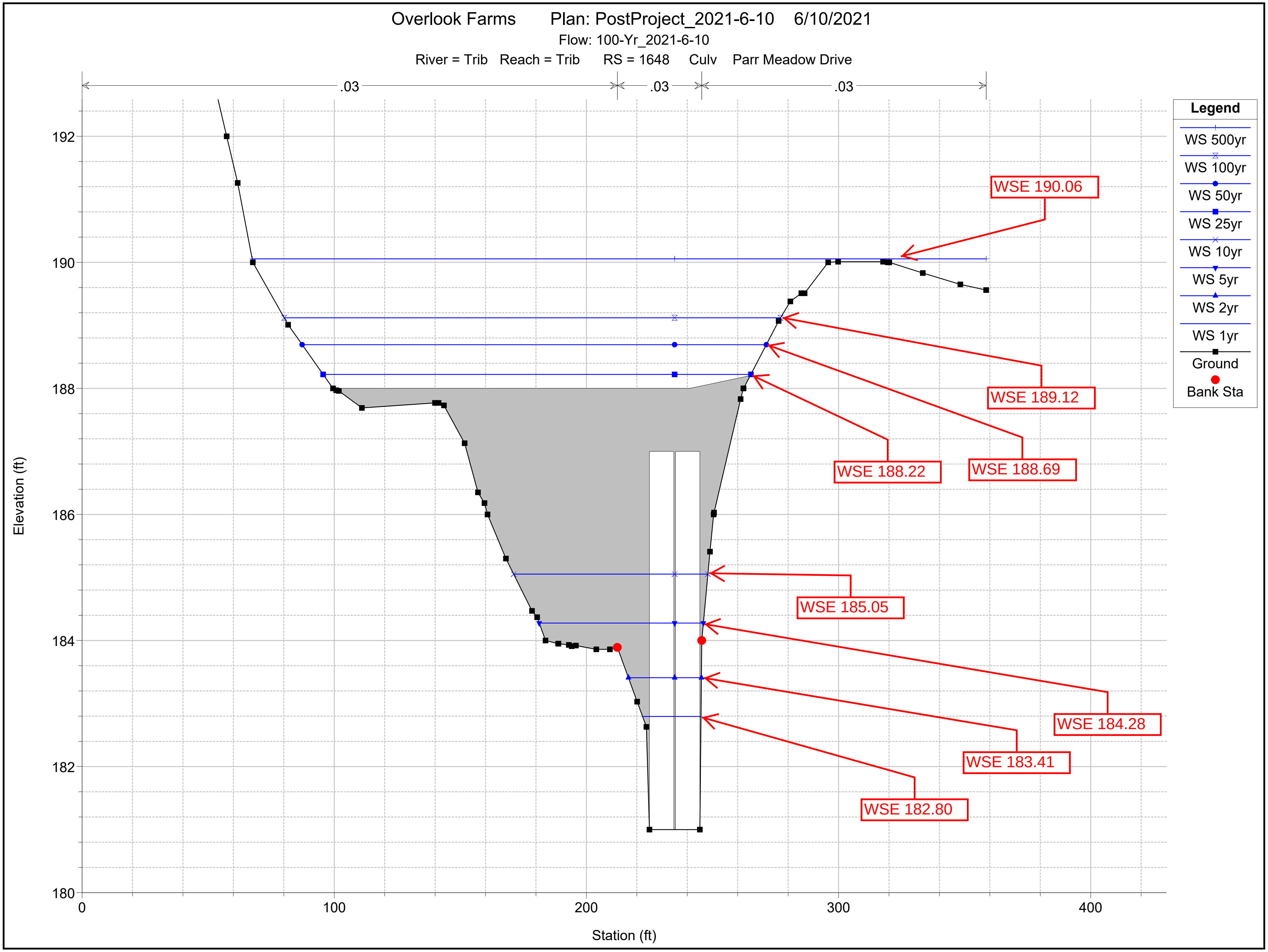
Peak Discharge (CFS)	1737.98
Time of Peak Discharge	19Mar2021, 13:42
Volume (IN)	5.04



Peak Discharge (CFS)=2965.65
Tiem of Peak Discharge = 13:42
Volume (in) = 8.67

500 YEAR FREQUENCY





1 in Horiz. = 50 ft 1 in Vert. = 2 ft

Overlook Farms
6/15/2021

Table 2

Duration and Depth of overtopping at Route 9W

Frequency (Year)	**Water Surface Elevation (ft)**	**Low Point on Road (ft)**	**Max Depth (ft)**	**6 Inch Depth Duration (Hours)**	**1 Foot Depth Duration (Hours)**	**1.5 Foot Depth Duration (Hours)**
500	210.42	207.90	2.52	3.5	3	2.25
100	209.47	207.90	1.57	2.1	1.6	0.5
50	209.06	207.90	1.16	1.4	0.7	0
25	208.35	207.90	0.45	0	0	0
10	207.91	207.90	0.01	0	0	0
5	204.07	207.90	0.00	0	0	0
2	203.29	207.90	0.00	0	0	0
1	202.73	207.90	0.00	0	0	0

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JOB

SHEET NO. OF

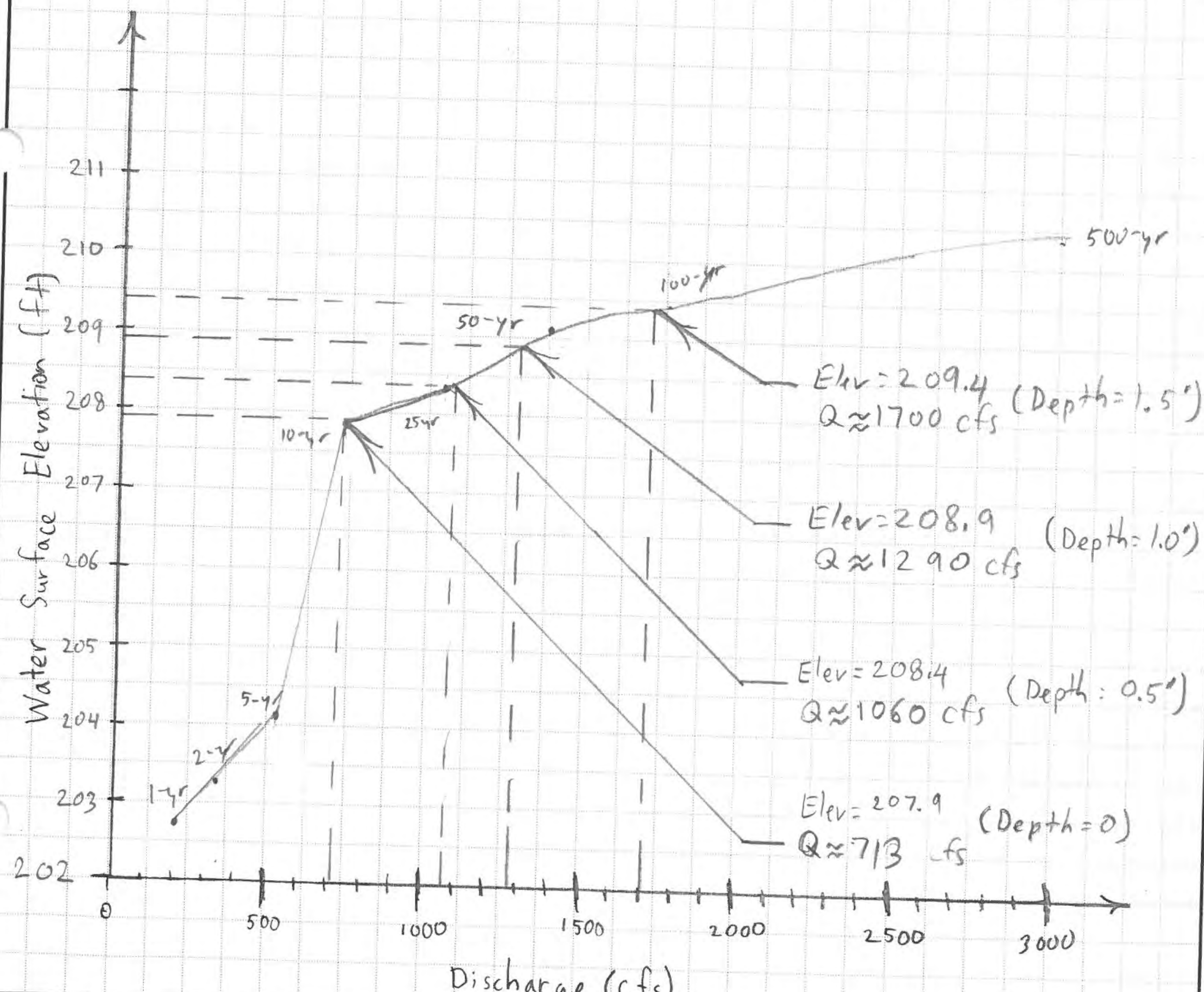
CALCULATED BY DATE

CHECKED BY DATE

SCALE

Elevation Vs Discharge at Route 9W

Frequency	Discharge	Elevation
1	213	202.73
2	331	203.29
5	522	204.07
10	713	207.91
25	1042	208.35
50	1358	209.06
100	1738	209.47
500	2966	210.42

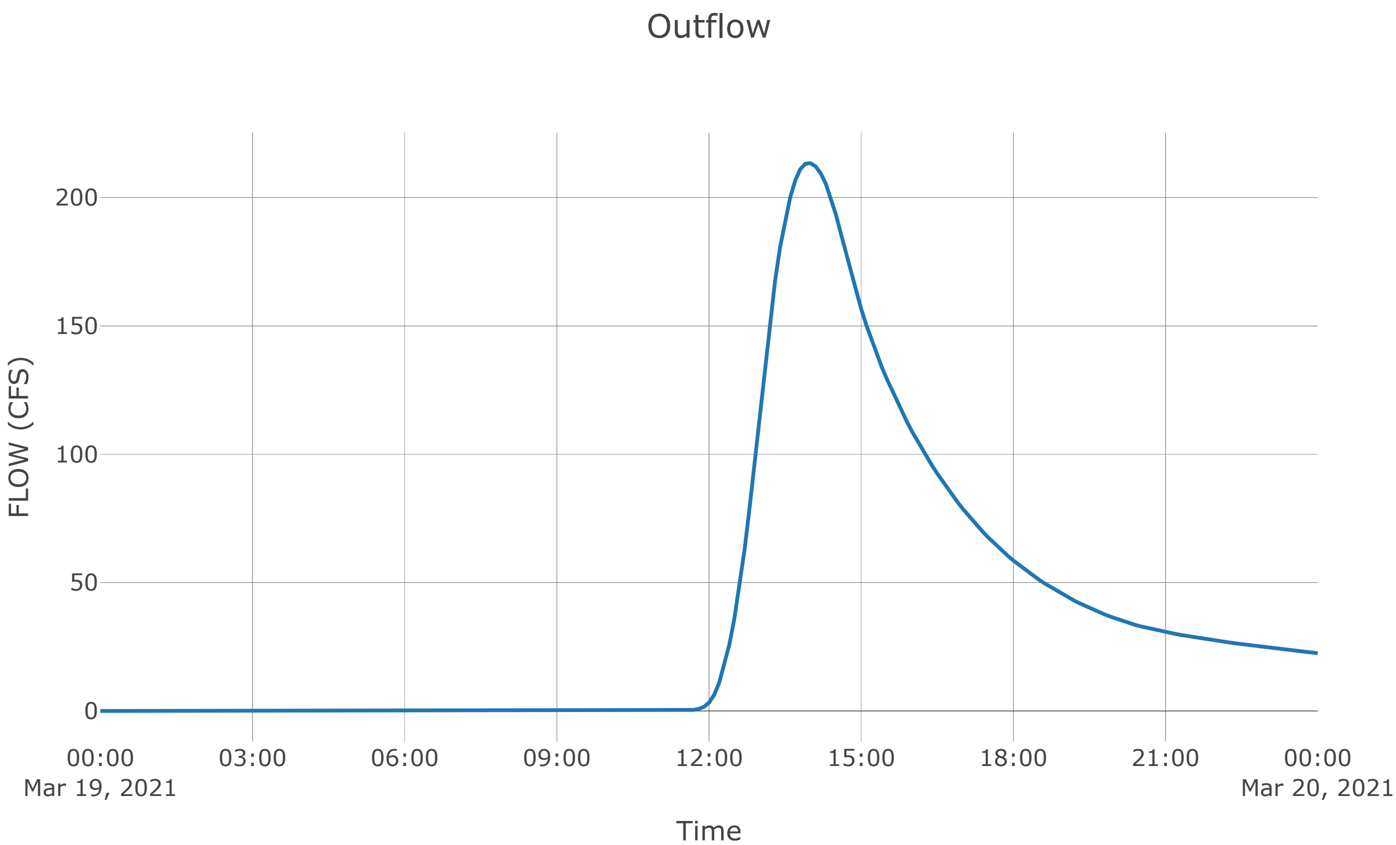


Sink: Sink-1

1 YEAR FREQUENCY

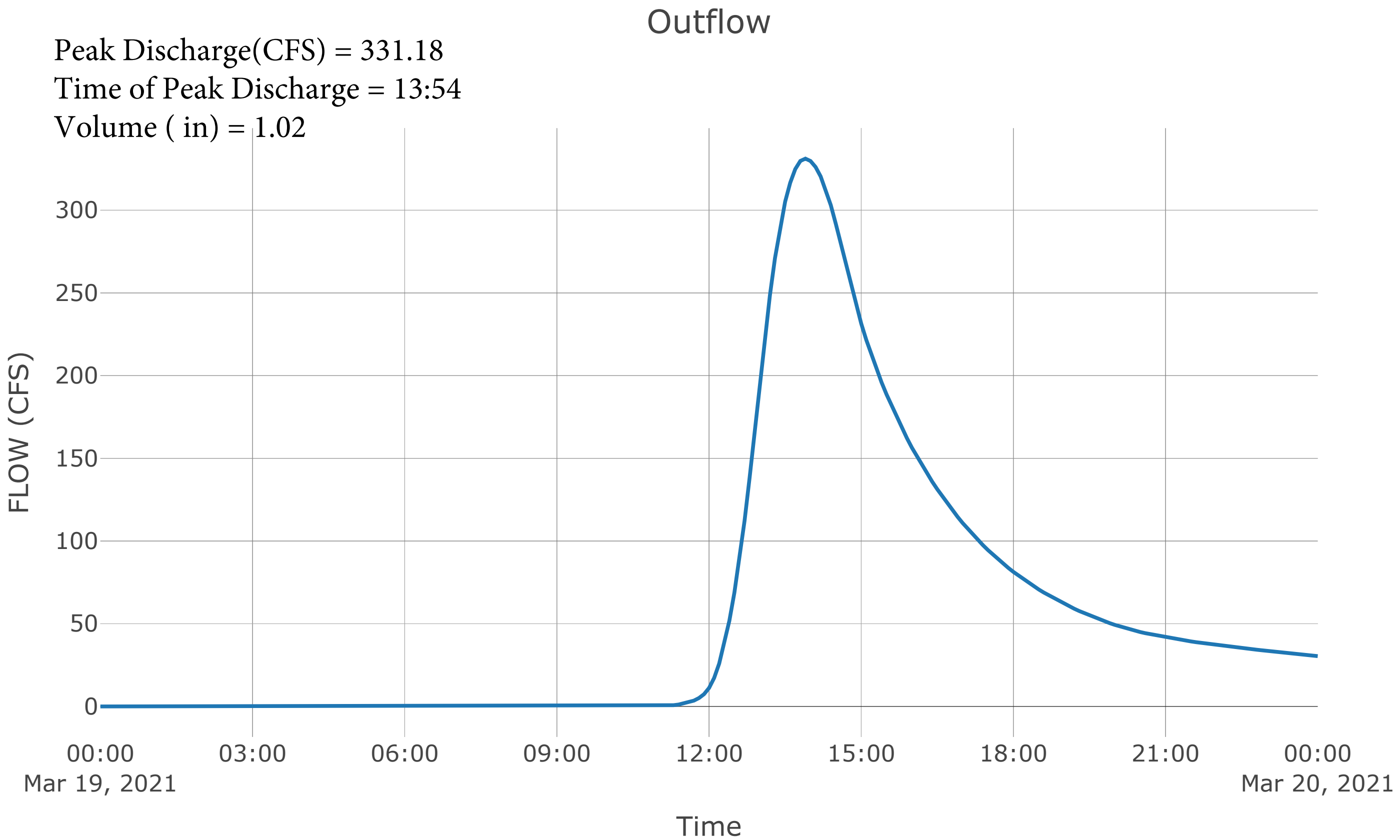
Results: Sink-1

Peak Discharge (CFS)	213.41
Time of Peak Discharge	19Mar2021, 14:00
Volume (IN)	0.68



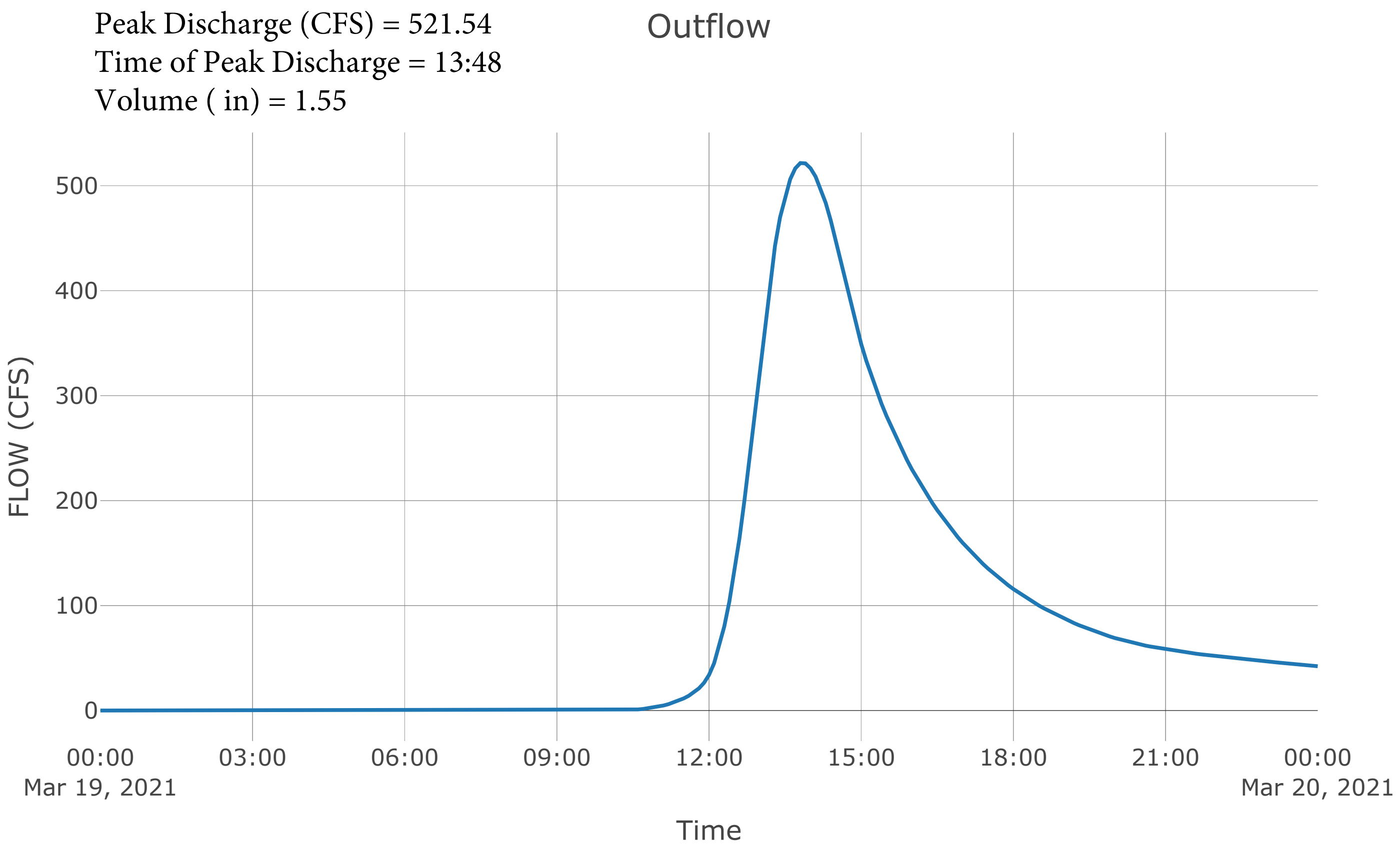
2 YEAR FREQUENCY

Peak Discharge(CFS) = 331.18
Time of Peak Discharge = 13:54
Volume (in) = 1.02



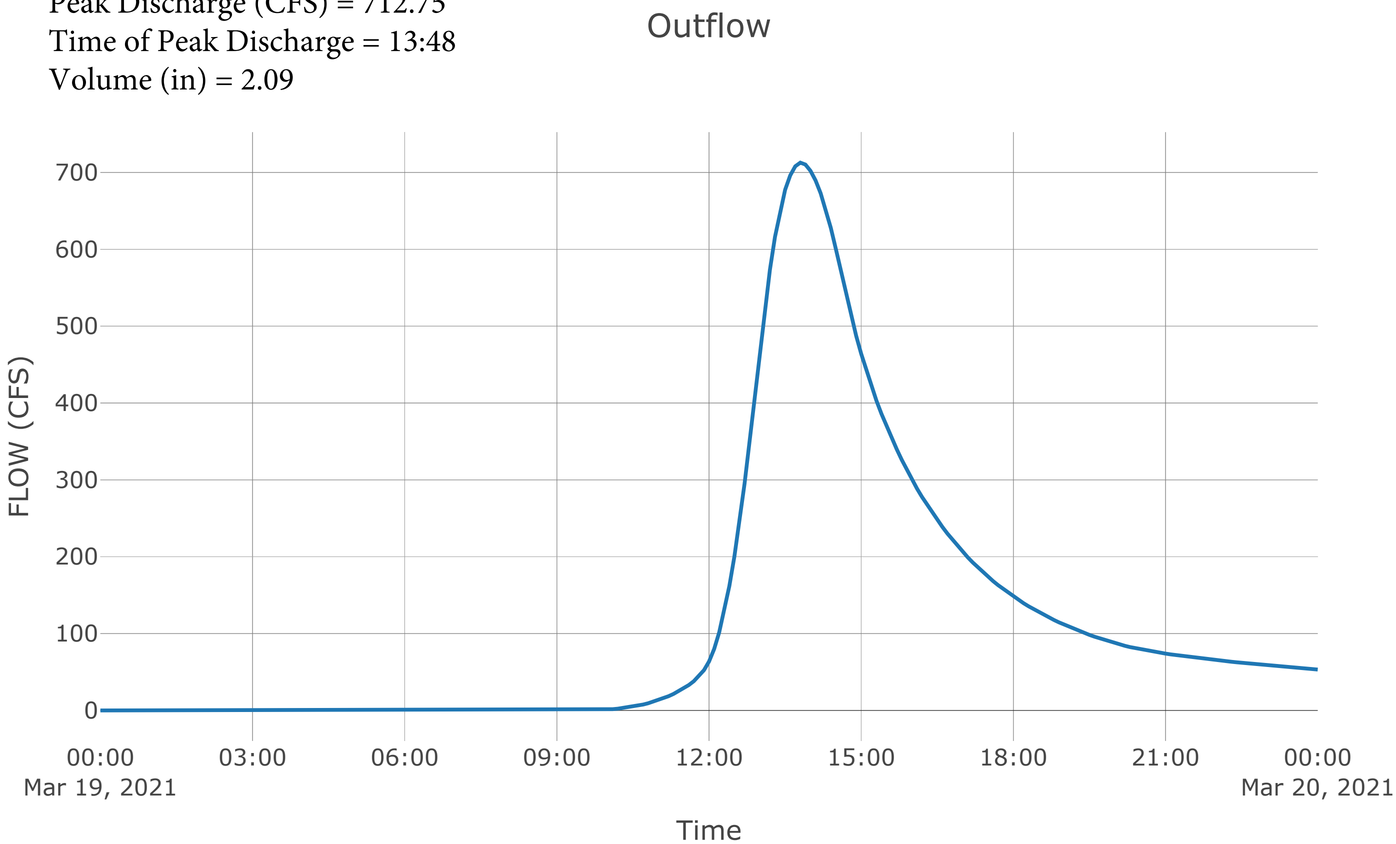
5 YEAR FREQUENCY

Peak Discharge (CFS) = 521.54
Time of Peak Discharge = 13:48
Volume (in) = 1.55



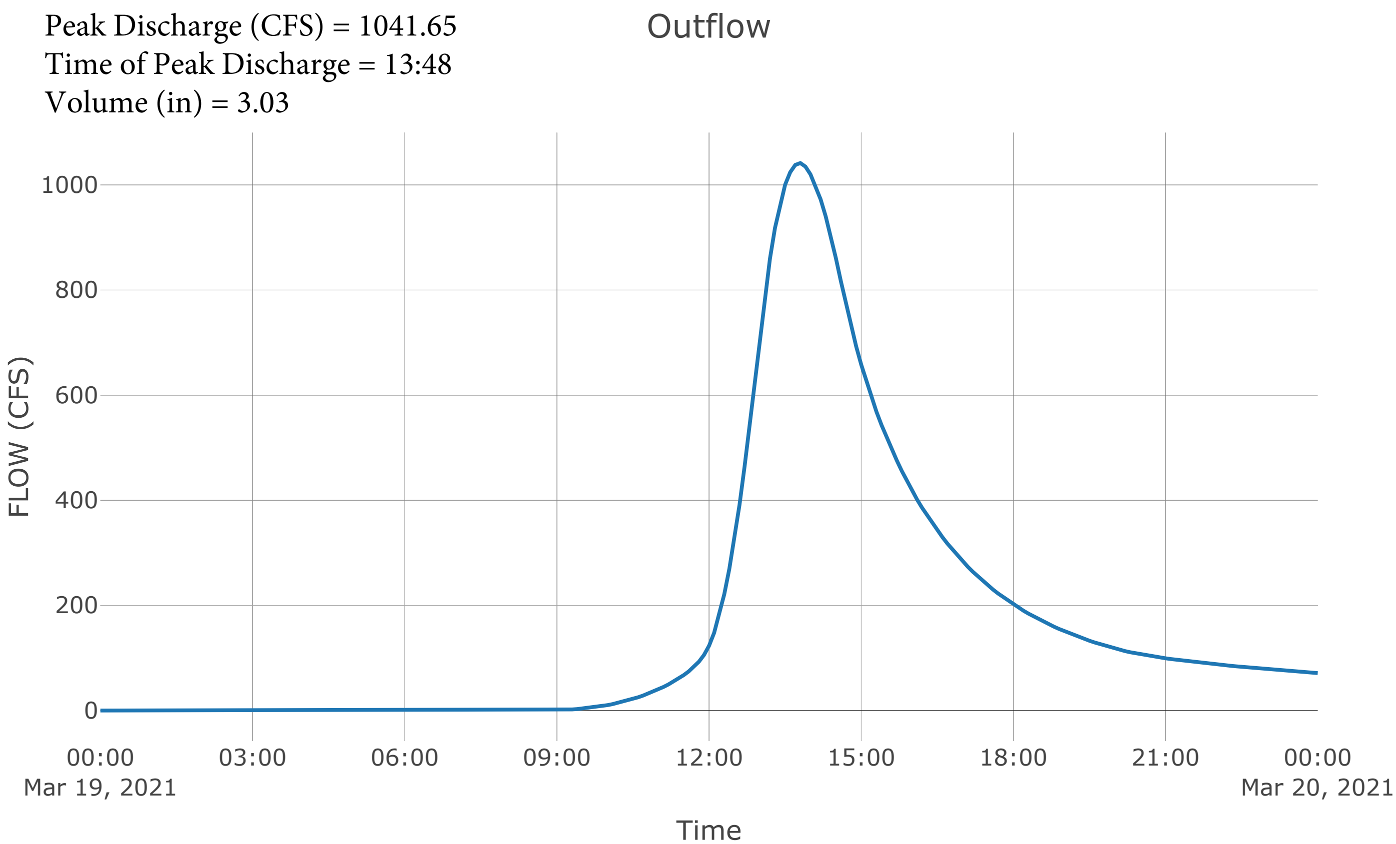
Peak Discharge (CFS) = 712.75
Time of Peak Discharge = 13:48
Volume (in) = 2.09

10 YEAR FREQUENCY



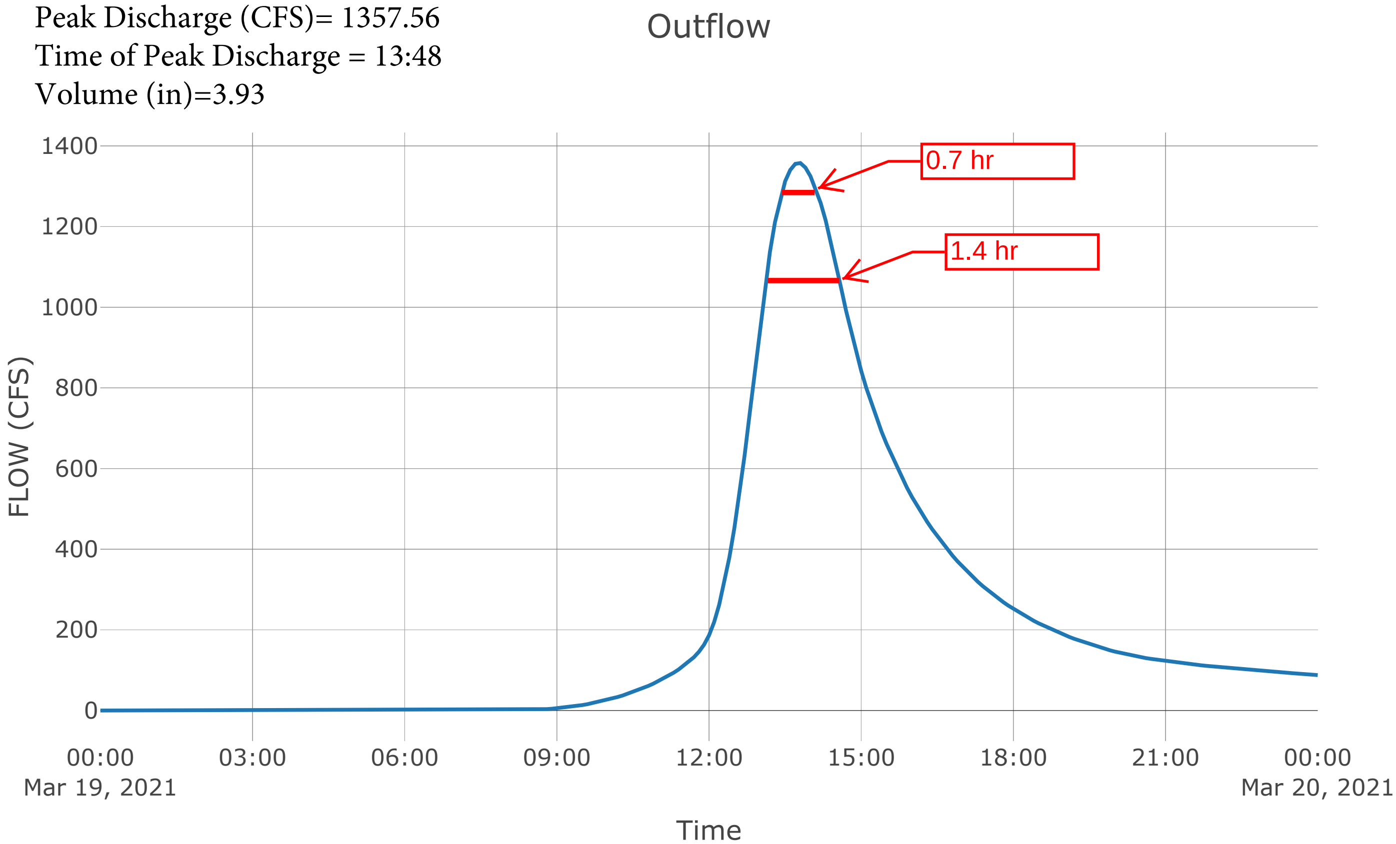
25 YEAR FREQUENCY

Peak Discharge (CFS) = 1041.65
Time of Peak Discharge = 13:48
Volume (in) = 3.03



50 YEAR FREQUENCY

Peak Discharge (CFS)= 1357.56
Time of Peak Discharge = 13:48
Volume (in)=3.93

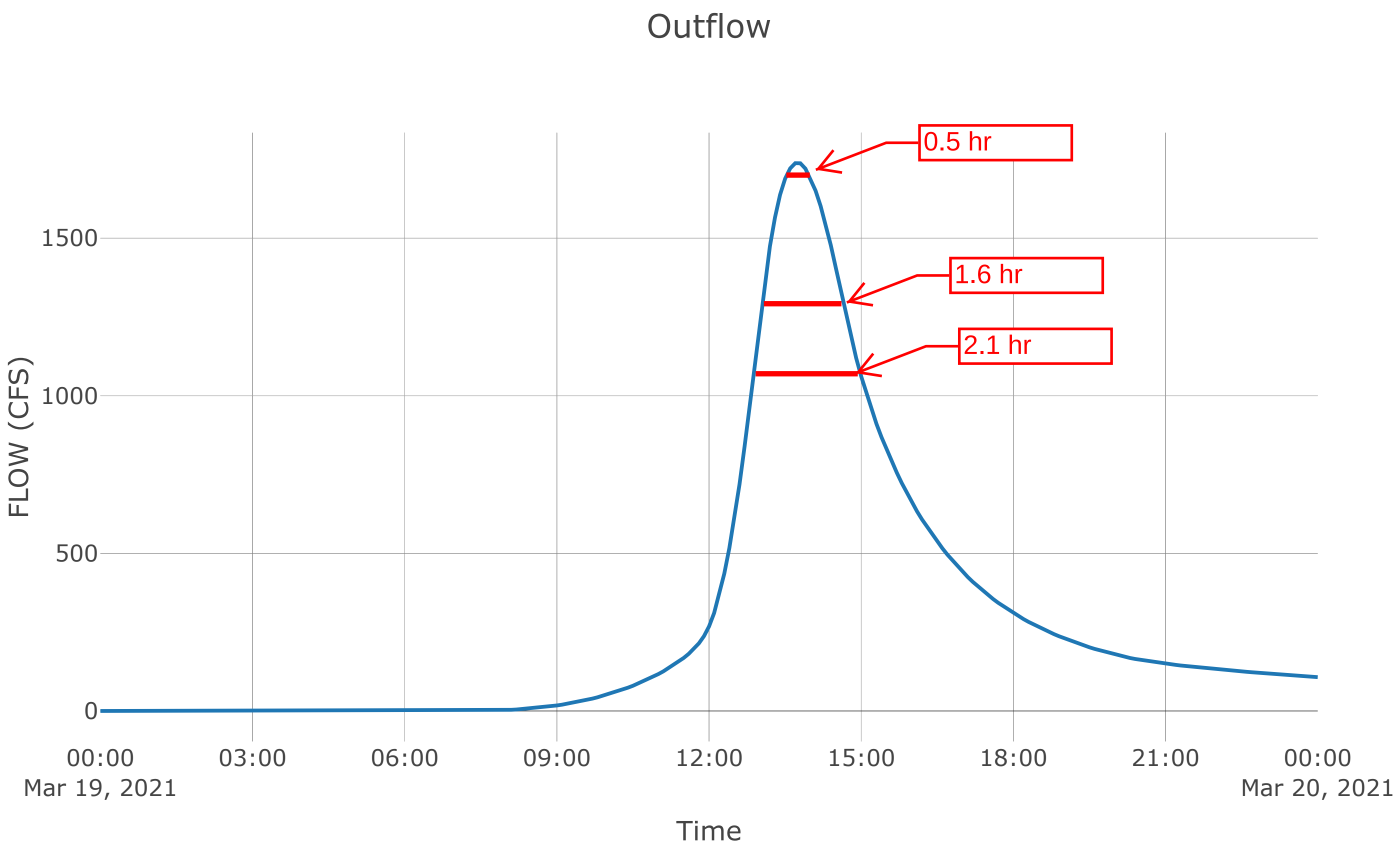


Sink: Sink-1

100 YEAR FREQUENCY

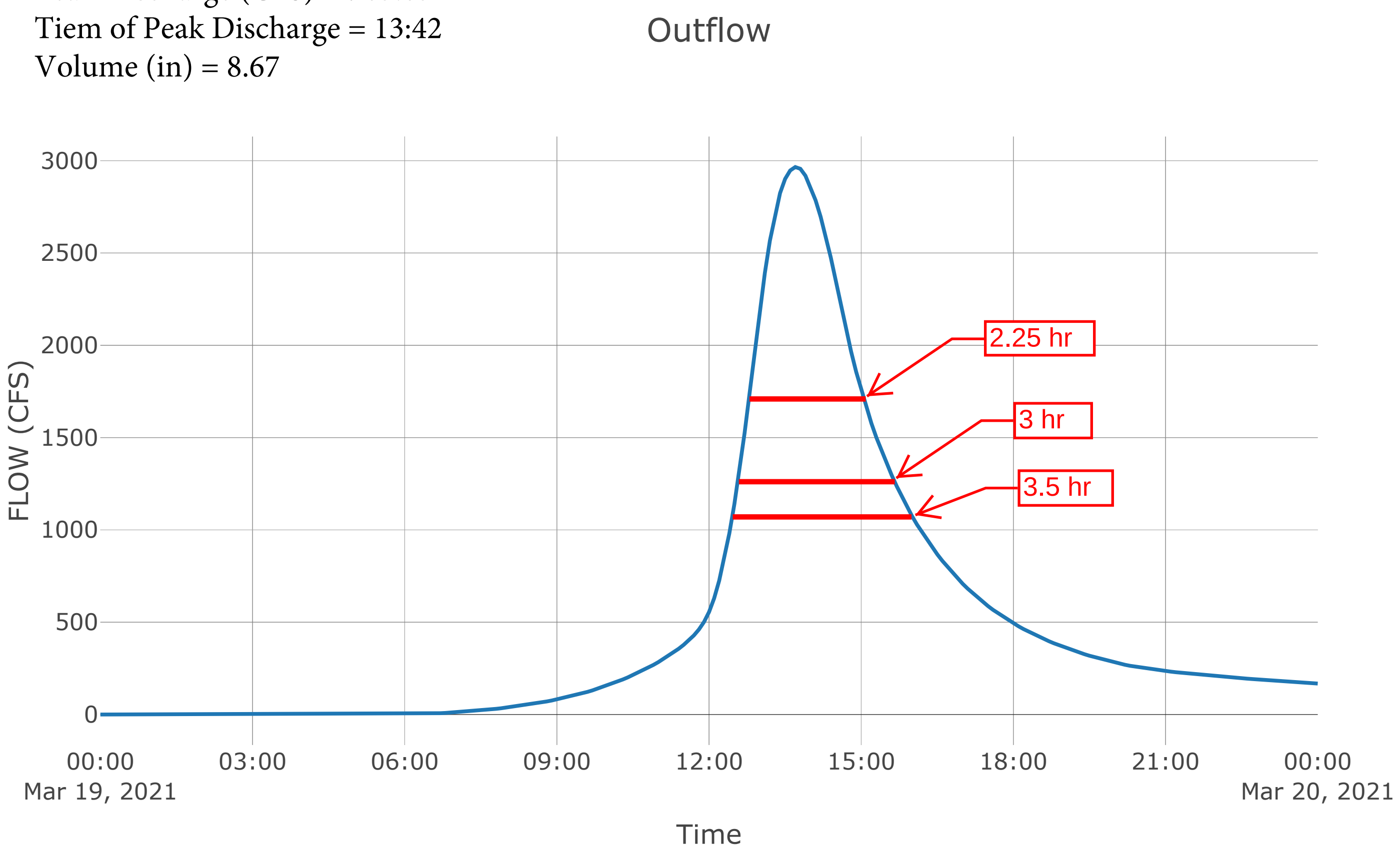
Results: Sink-1

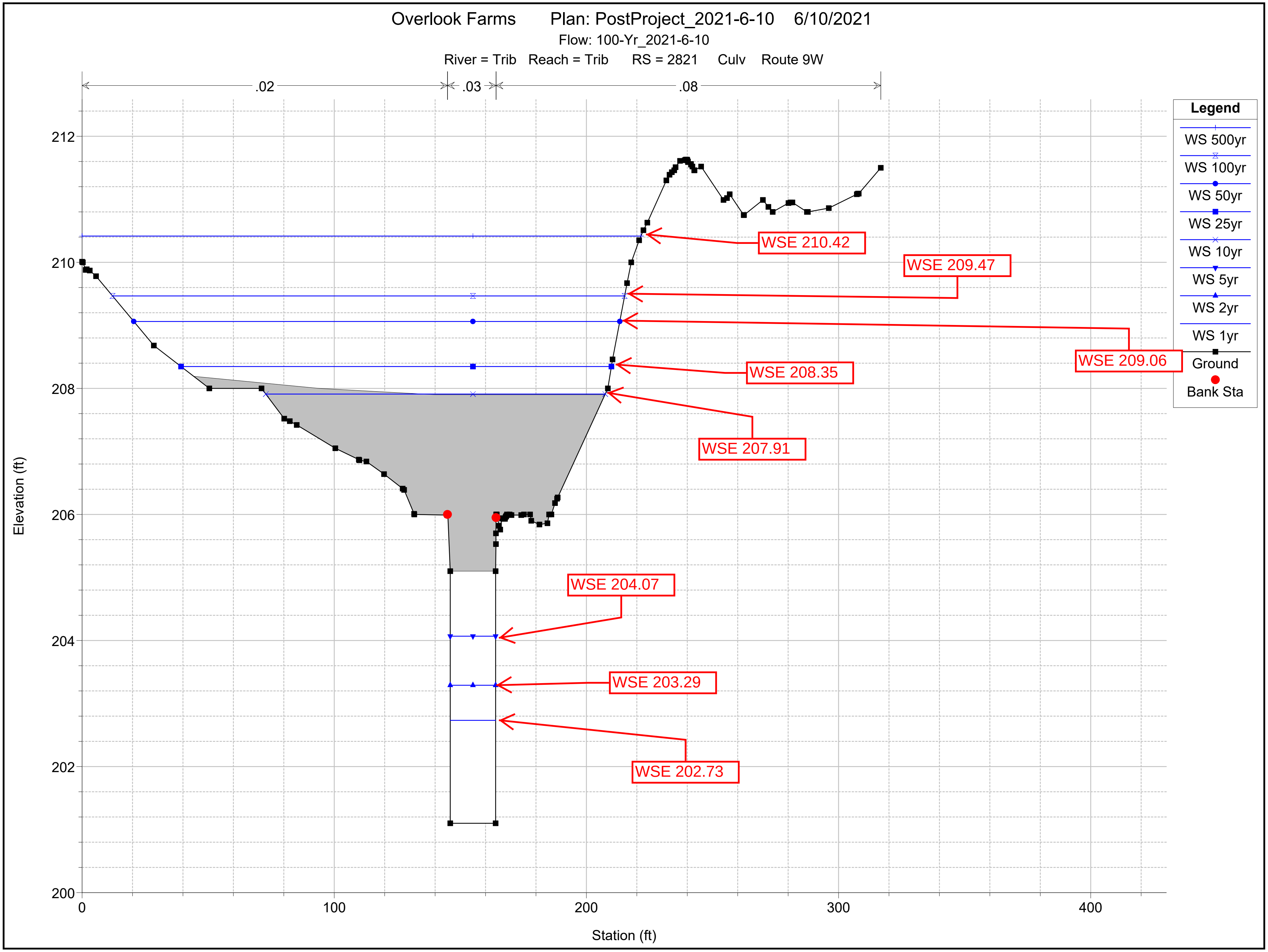
Peak Discharge (CFS)	1737.98
Time of Peak Discharge	19Mar2021, 13:42
Volume (IN)	5.04



Peak Discharge (CFS)=2965.65
Tiem of Peak Discharge = 13:42
Volume (in) = 8.67

500 YEAR FREQUENCY





1 in Horiz. = 50 ft 1 in Vert. = 2 ft

Overlook Farms
6/15/2021

Duration and Depth of overtopping at Morris Drive

Frequency (Year)	Water Surface Elevation (ft)	Low Point on Road (ft)	Max Depth (ft)	6 Inch Depth Duration (Hours)	1 Foot Depth Duration (Hours)	1.5 Foot Depth Duration (Hours)
500	204.75	201.30	3.45	5.5	4.8	3.9
100	203.93	201.30	2.63	3.9	3.25	2.4
50	203.48	201.30	2.18	3.4	2.6	1.8
25	202.97	201.30	1.67	2.6	1.9	0.9
10	202.36	201.30	1.06	1.5	0.375	0
5	201.70	201.30	0.40	0	0	0
2	198.73	201.30	0.00	0	0	0
1	197.11	201.30	0.00	0	0	0

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Pomona, New York 10970
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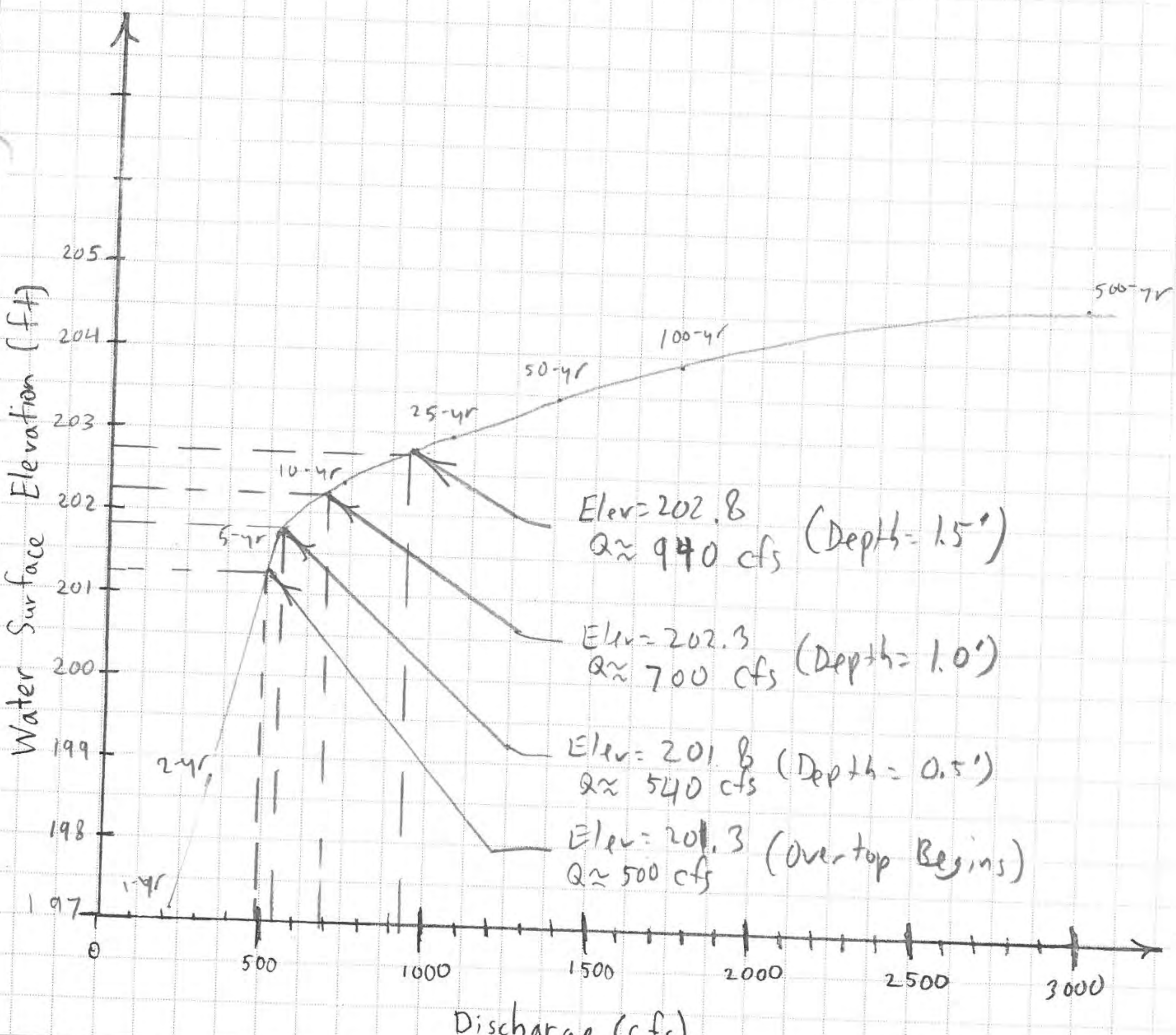
FAX (845) 354-4401

JOB
SHEET NO. OF
CALCULATED BY DATE
CHECKED BY DATE
SCALE

Elevation Vs Discharge at Morris Drive

Frequency	Discharge	Elevation
1	213	197.11
2	331	198.73
5	522	201.70
10	713	202.36
25	1042	202.97
50	1358	203.48
100	1738	203.93
500	2966	204.75

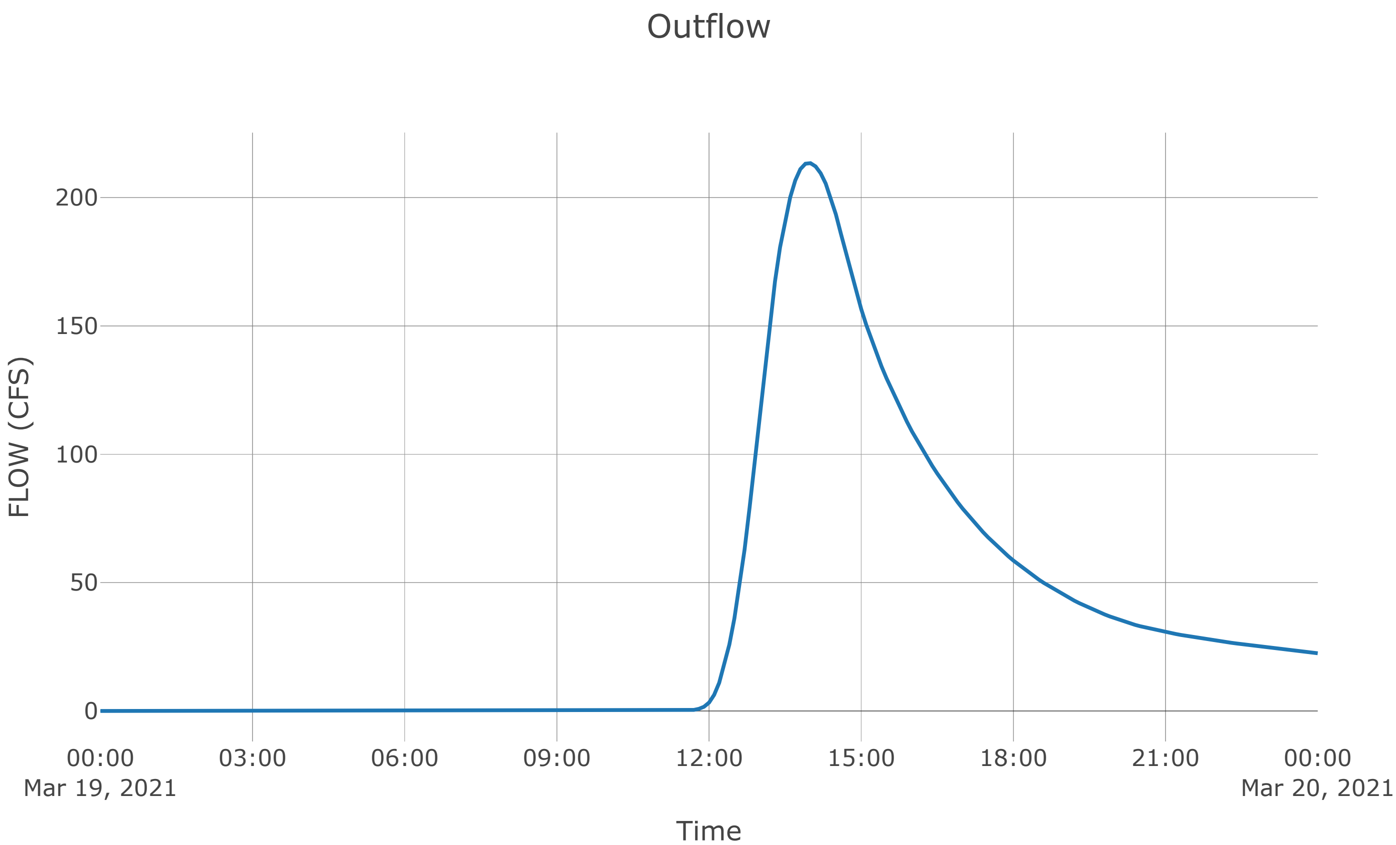


Sink: Sink-1

1 YEAR FREQUENCY

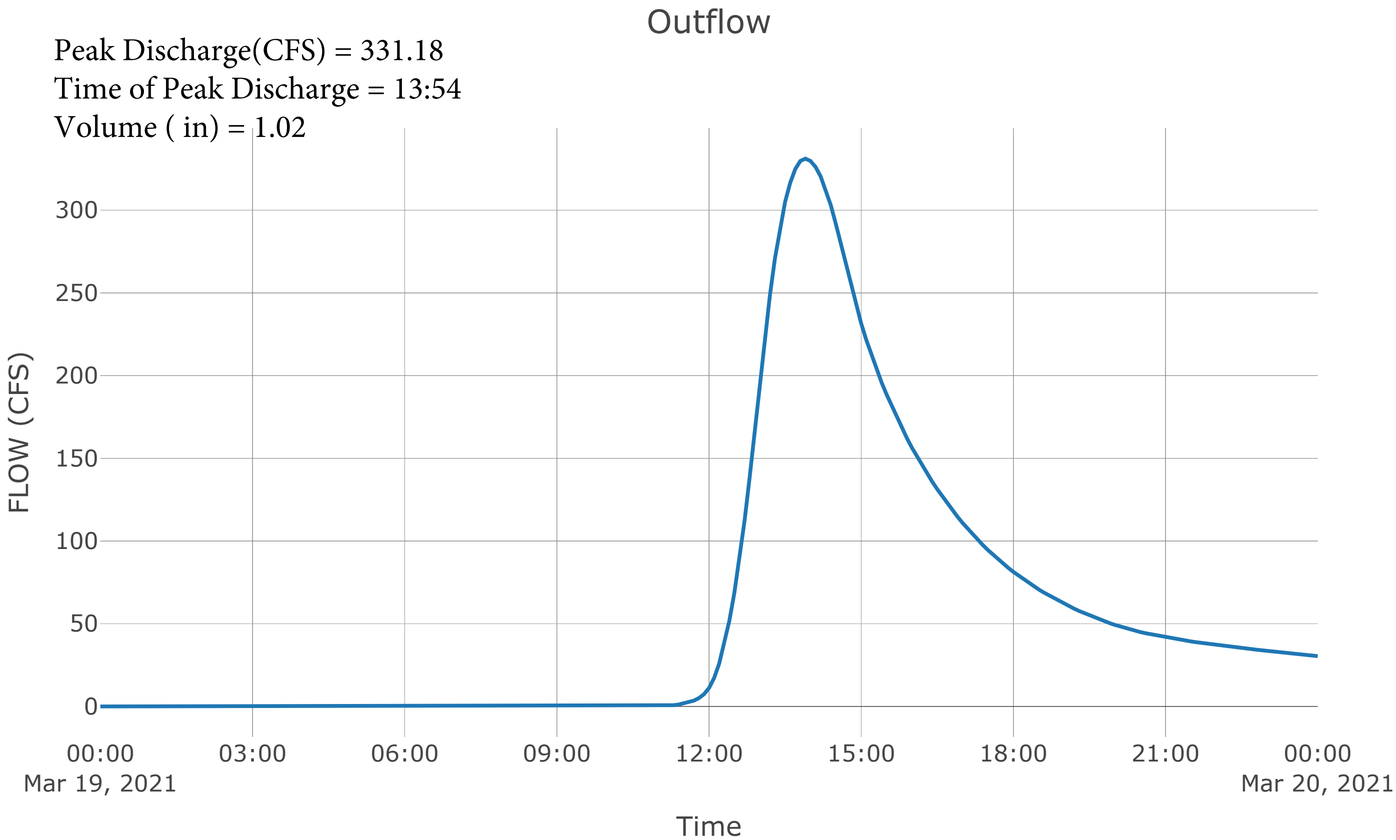
Results: Sink-1

Peak Discharge (CFS)	213.41
Time of Peak Discharge	19Mar2021, 14:00
Volume (IN)	0.68



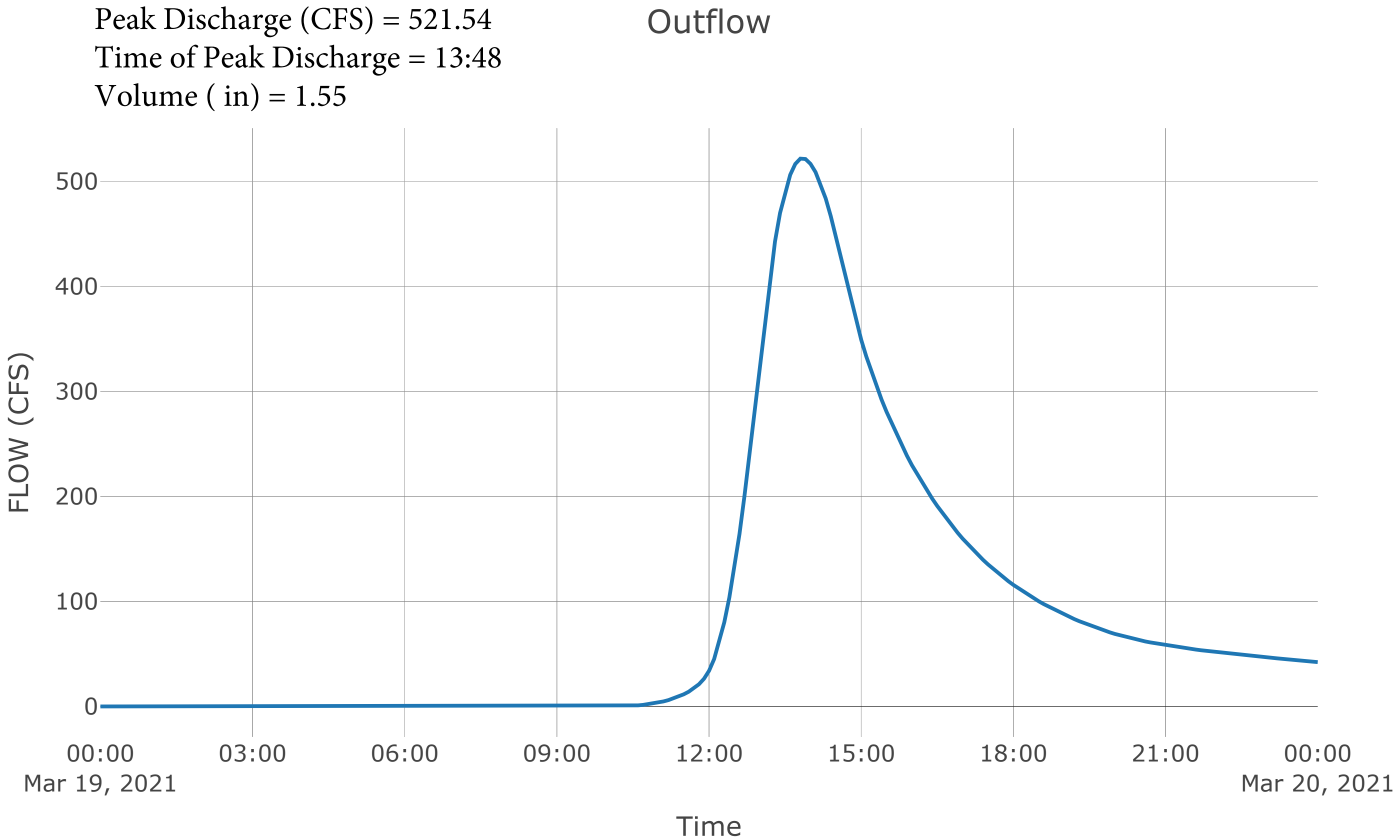
2 YEAR FREQUENCY

Peak Discharge(CFS) = 331.18
Time of Peak Discharge = 13:54
Volume (in) = 1.02



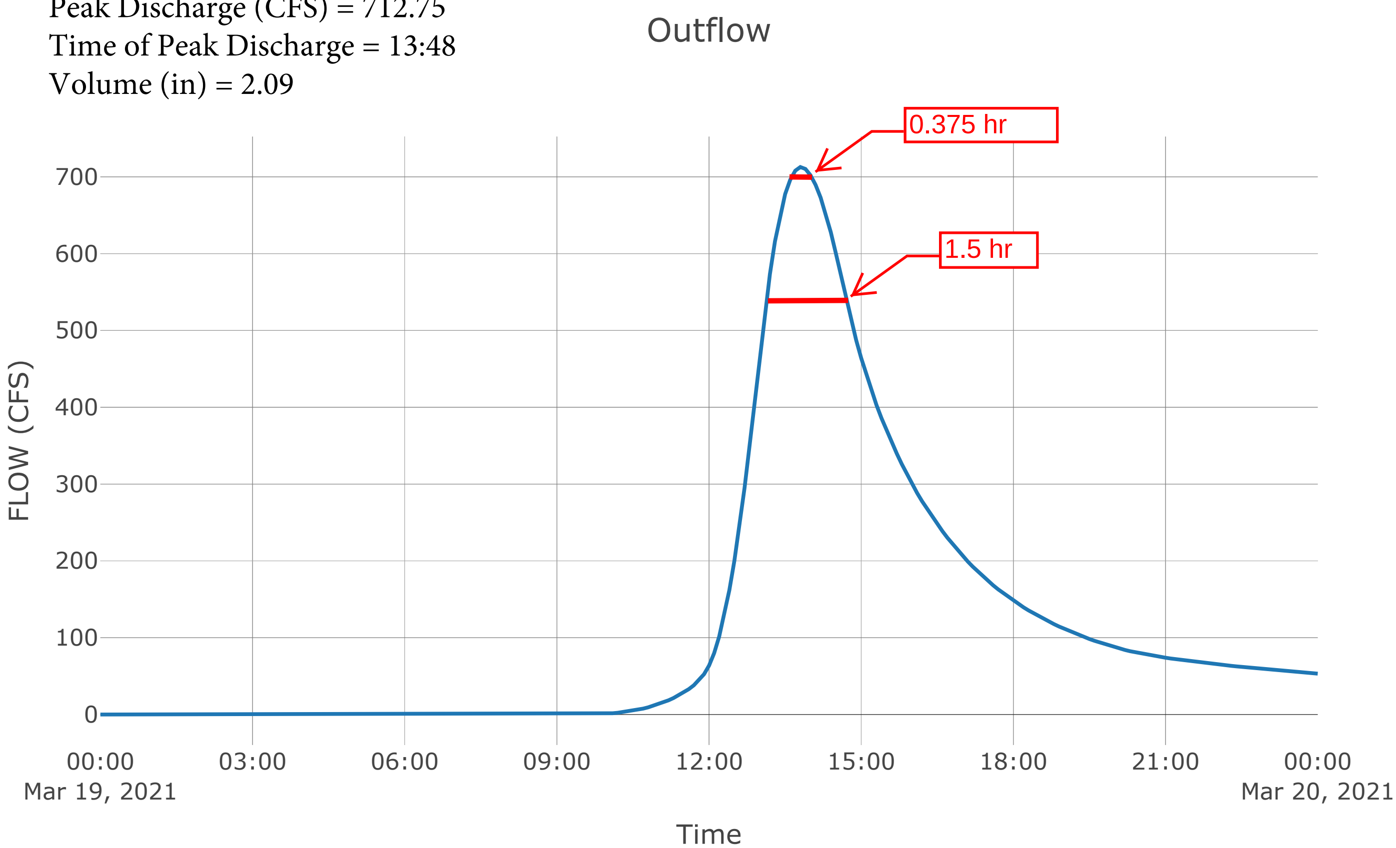
5 YEAR FREQUENCY

Peak Discharge (CFS) = 521.54
Time of Peak Discharge = 13:48
Volume (in) = 1.55



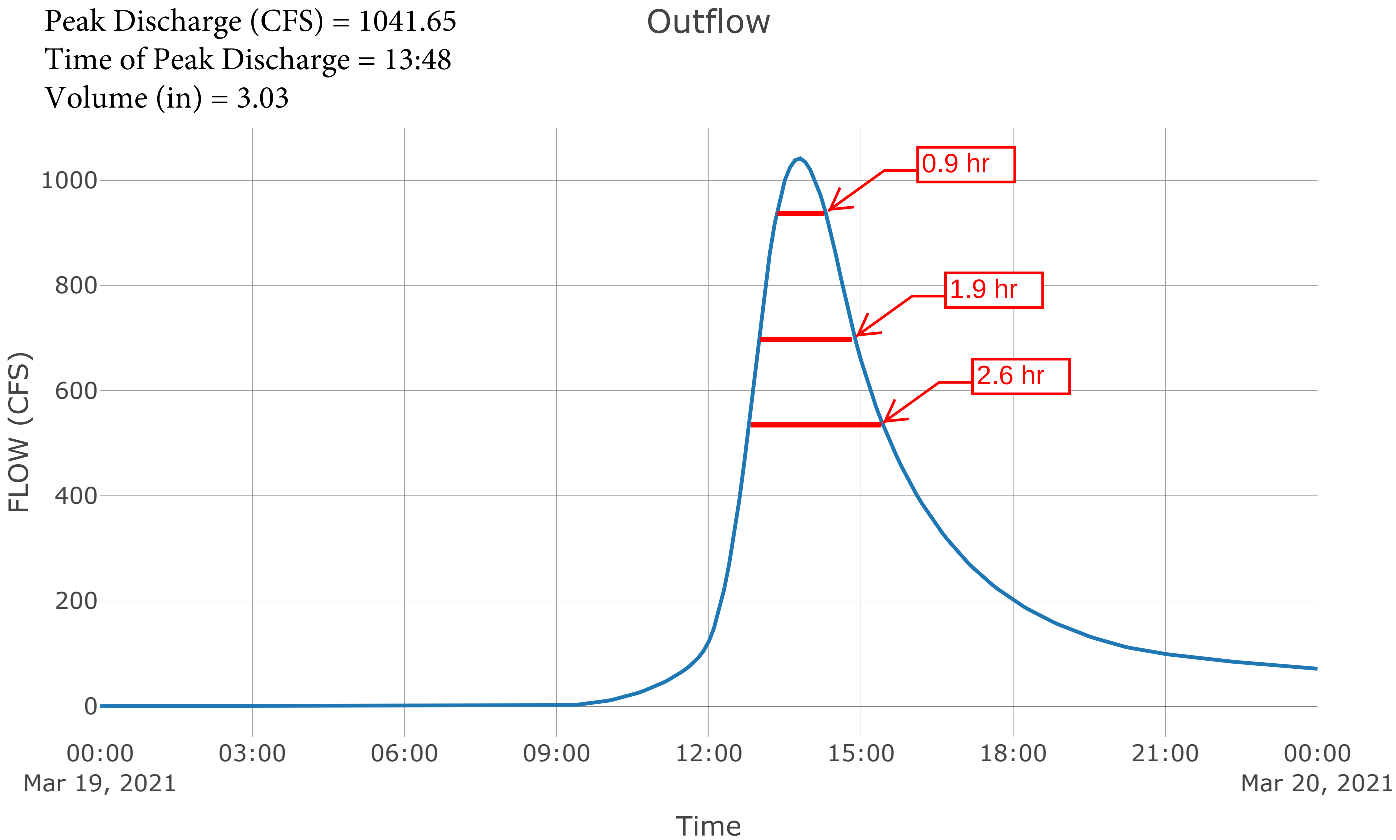
Peak Discharge (CFS) = 712.75
Time of Peak Discharge = 13:48
Volume (in) = 2.09

10 YEAR FREQUENCY



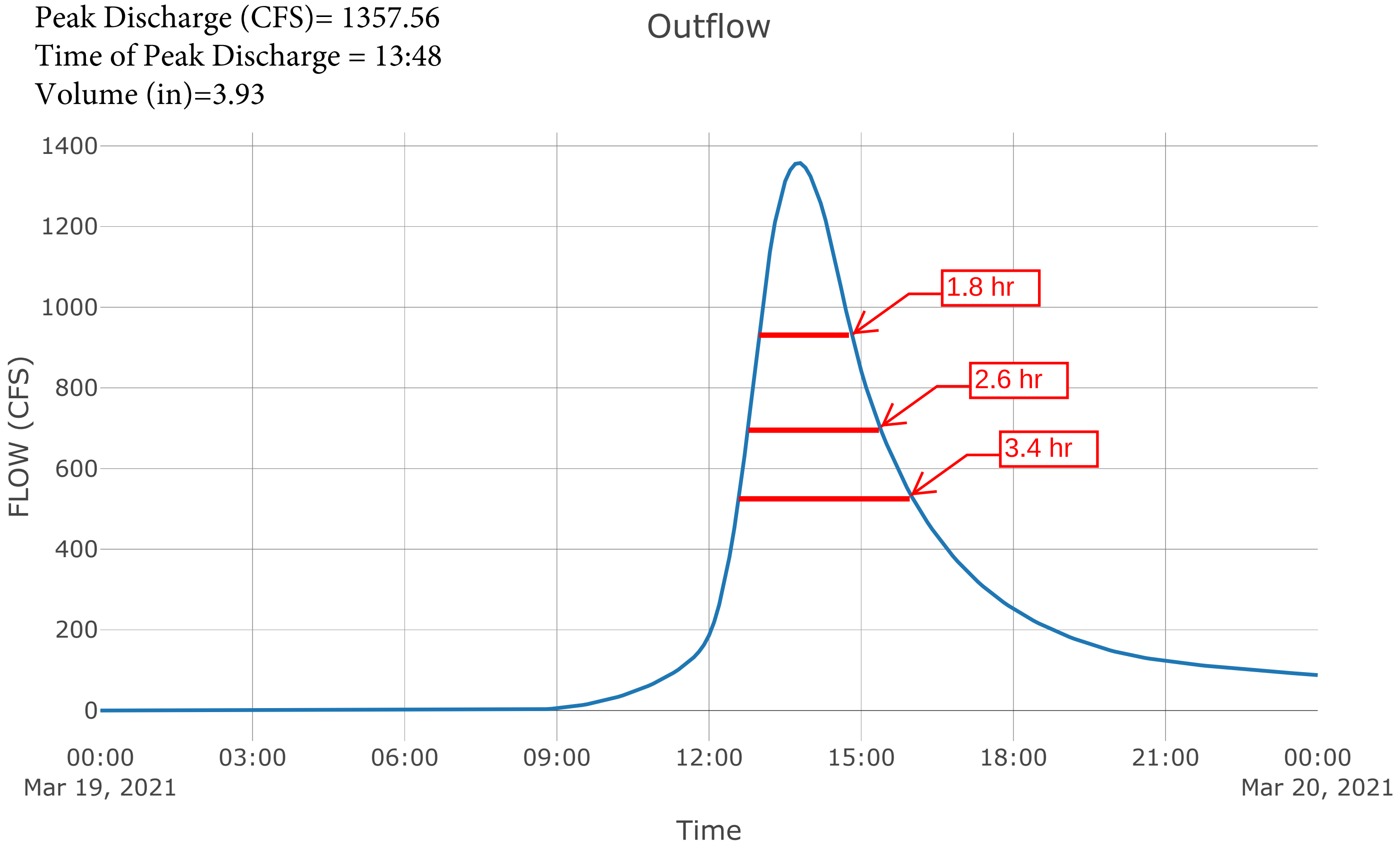
25 YEAR FREQUENCY

Peak Discharge (CFS) = 1041.65
Time of Peak Discharge = 13:48
Volume (in) = 3.03



50 YEAR FREQUENCY

Peak Discharge (CFS)= 1357.56
Time of Peak Discharge = 13:48
Volume (in)=3.93

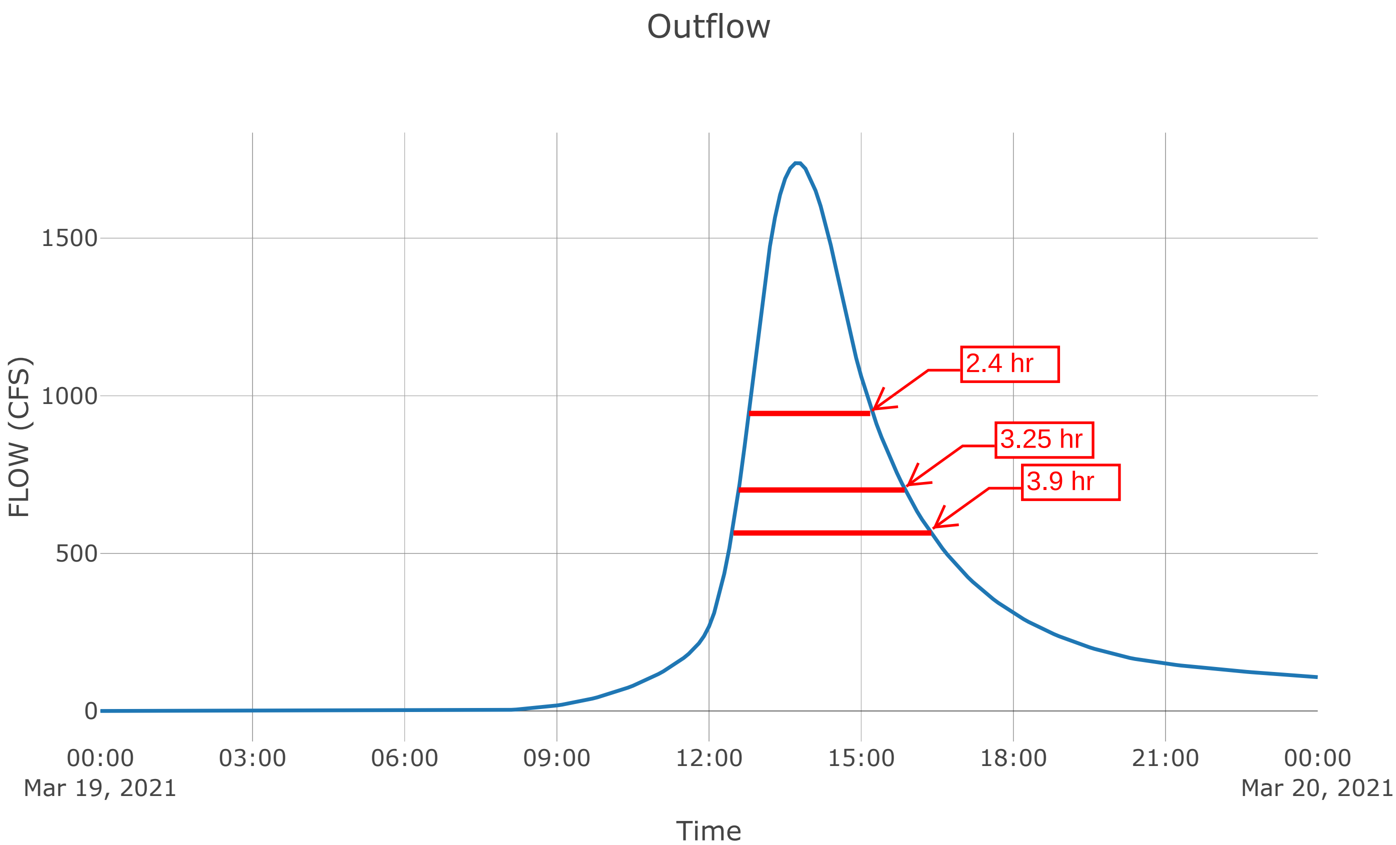


Sink: Sink-1

100 YEAR FREQUENCY

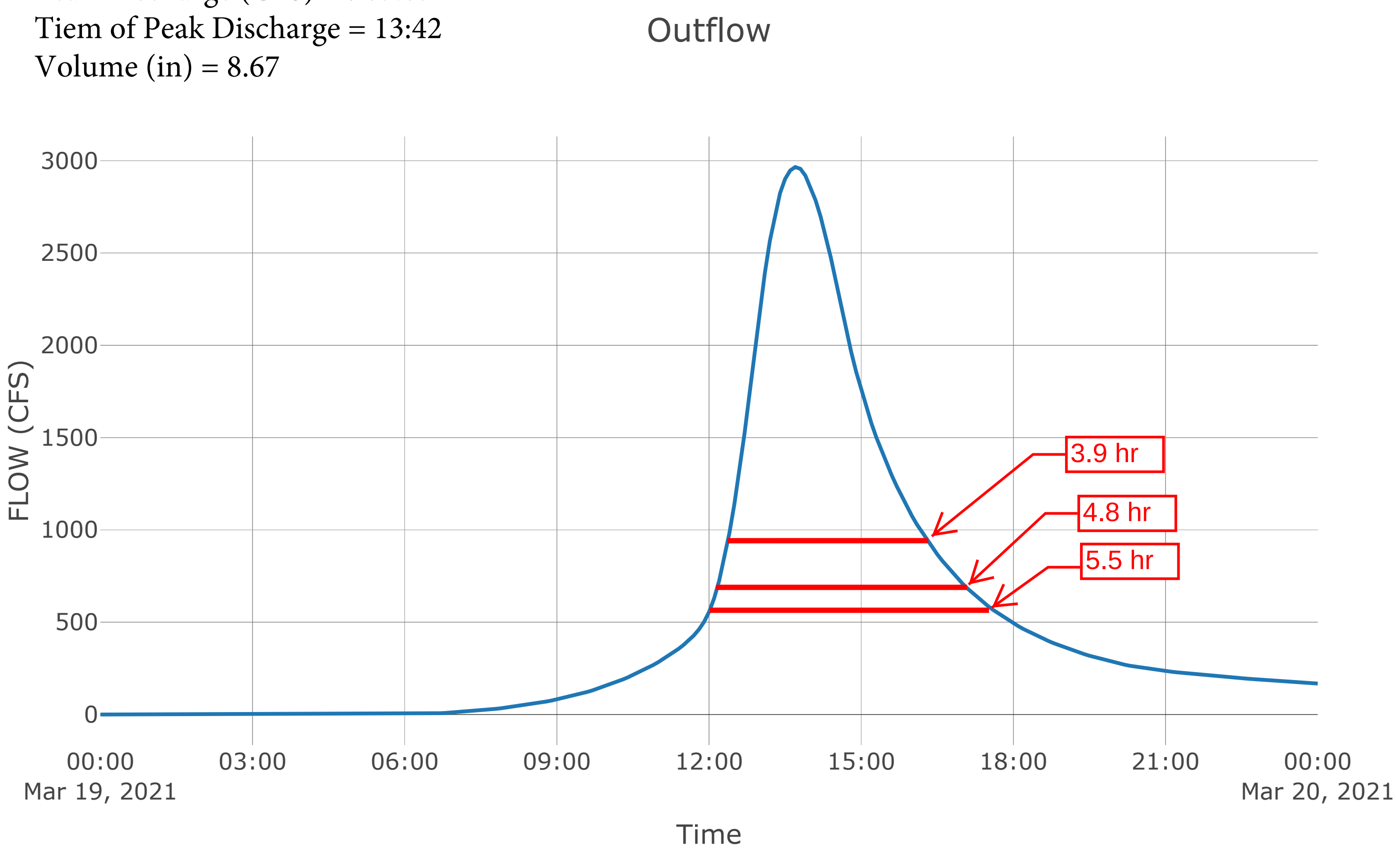
Results: Sink-1

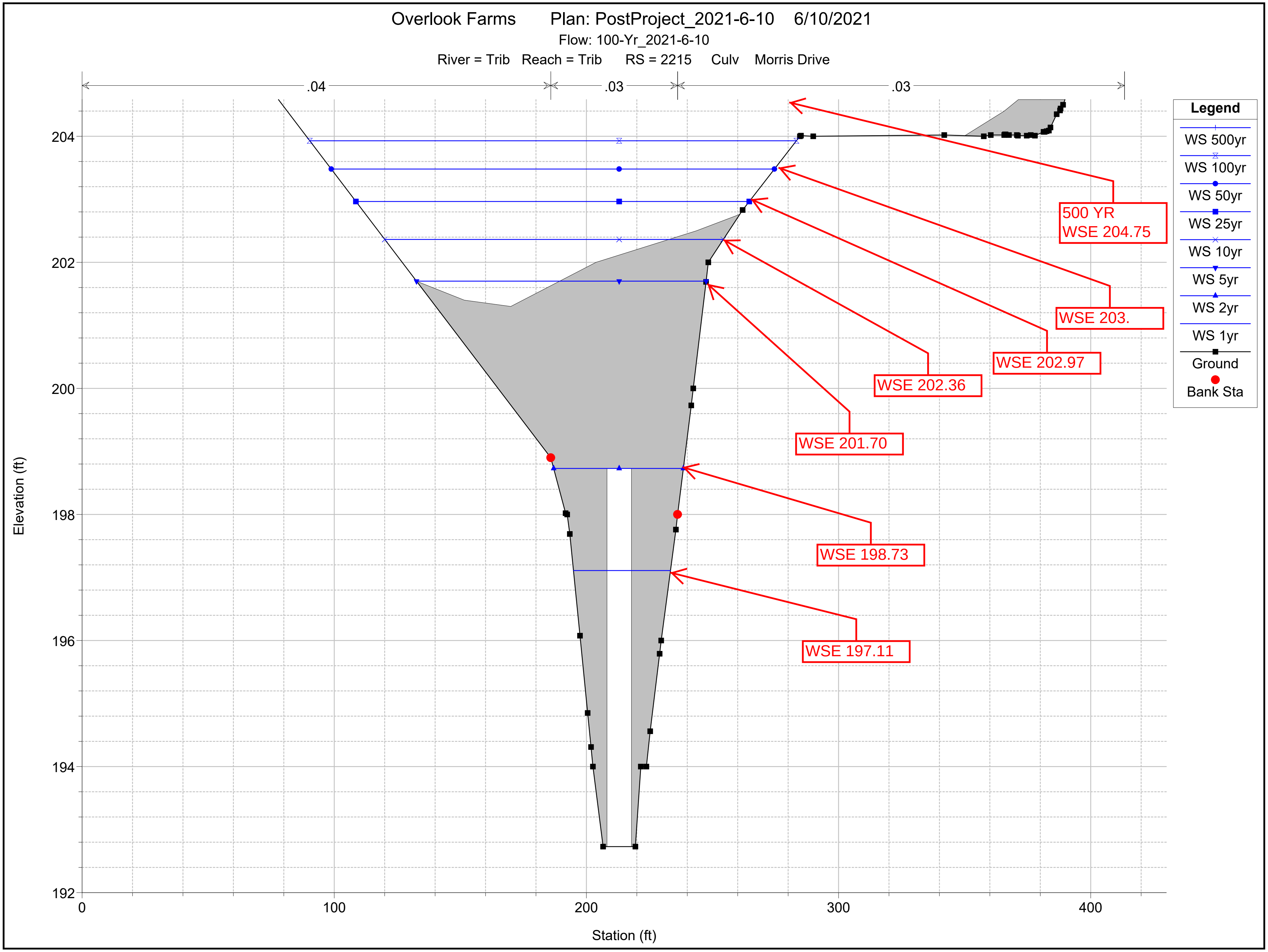
Peak Discharge (CFS)	1737.98
Time of Peak Discharge	19Mar2021, 13:42
Volume (IN)	5.04



Peak Discharge (CFS)=2965.65
Tiem of Peak Discharge = 13:42
Volume (in) = 8.67

500 YEAR FREQUENCY





1 in Horiz. = 50 ft 1 in Vert. = 2 ft

Downstream Hydrologic Effect Routing Analysis

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(845) 354-4382 FAX (845) 354-4401

JOB OVERLOOK FARM
SHEET NO. 1 OF 1
CALCULATED BY RS DATE 6/15/21
CHECKED BY DATE
SCALE

100 year DISCHARGE RATE = 1737.98 cfs

Ex CONDITIONS DISCHARGE ROUTING = 1735.1 cfs

DEV. CONDITIONS DISCHARE ROUTING = 1737.3 cfs

Difference Δ = 1737.3 - 1735.1 = 2.2 cfs

Storage Vs Discharge Routing Table

Storm Frequency (year)	Q (cfs	Storage Existing Conditions (acre/feet)	Storage Developed Conditions (acre/feet)
0 year	0	0	0
1 year	213	2.06	1.96
2 year	331	2.86	3.14
5 year	522	4.44	4.54
10 year	713	6.03	5.96
25 year	1042	8.2	7.76
50 year	1358	10.28	9.78
100 year	1738	12.57	11.52
500 year	2966	17.85	15.91

Project: Overlook_Farm EXISTING CONDITIONS
Simulation Run: 100-yr STORAGE VS DISCHARGE
ROUTING
Simulation Start: 18 March 2021, 24:00
Simulation End: 19 March 2021, 24:00

HMS Version: 4.8
Executed: 15 June 2021, 12:49

Global Parameter Summary - Subbasin

Area (ft²)

Element Name	Area (ft²)
Subbasin - 1	2.07

Downstream

Element Name	Downstream
Subbasin - 1	Reservoir - 1

Loss Rate: Scs

Element Name	Percent Impervious Area	Curve Number
Subbasin - 1	0	75

Transform: Scs

Element Name	Lag	Unitgraph Type
Subbasin - 1	96.7	Standard

Global Results Summary

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Subbasin - 1	2.07	1737.98	19Mar2021, 13:42	5.04
Reservoir - 1	2.07	1735.1	19Mar2021, 13:48	5.03
Sink - 1	2.07	1735.1	19Mar2021, 13:48	5.03

Project: Overlook_Farm DEVELOPED CONDITIONS
Simulation Run: 100-yr STORAGE VS DISCHARGE ROUTING.
Simulation Start: 18 March 2021, 24:00
Simulation End: 19 March 2021, 24:00

HMS Version: 4.8
Executed: 15 June 2021, 13:05

Global Parameter Summary - Subbasin

Area (ft²)

Element Name	Area (ft²)
Subbasin - 1	2.07

Downstream

Element Name	Downstream
Subbasin - 1	Reservoir - 1

Loss Rate: Scs

Element Name	Percent Impervious Area	Curve Number
Subbasin - 1	0	75

Transform: Scs

Element Name	Lag	Unitgraph Type
Subbasin - 1	96.7	Standard

Global Results Summary

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Subbasin - 1	2.07	1737.98	19Mar2021, 13:42	5.04
Reservoir - 1	2.07	1737.34	19Mar2021, 13:48	5.03
Sink - 1	2.07	1737.34	19Mar2021, 13:48	5.03

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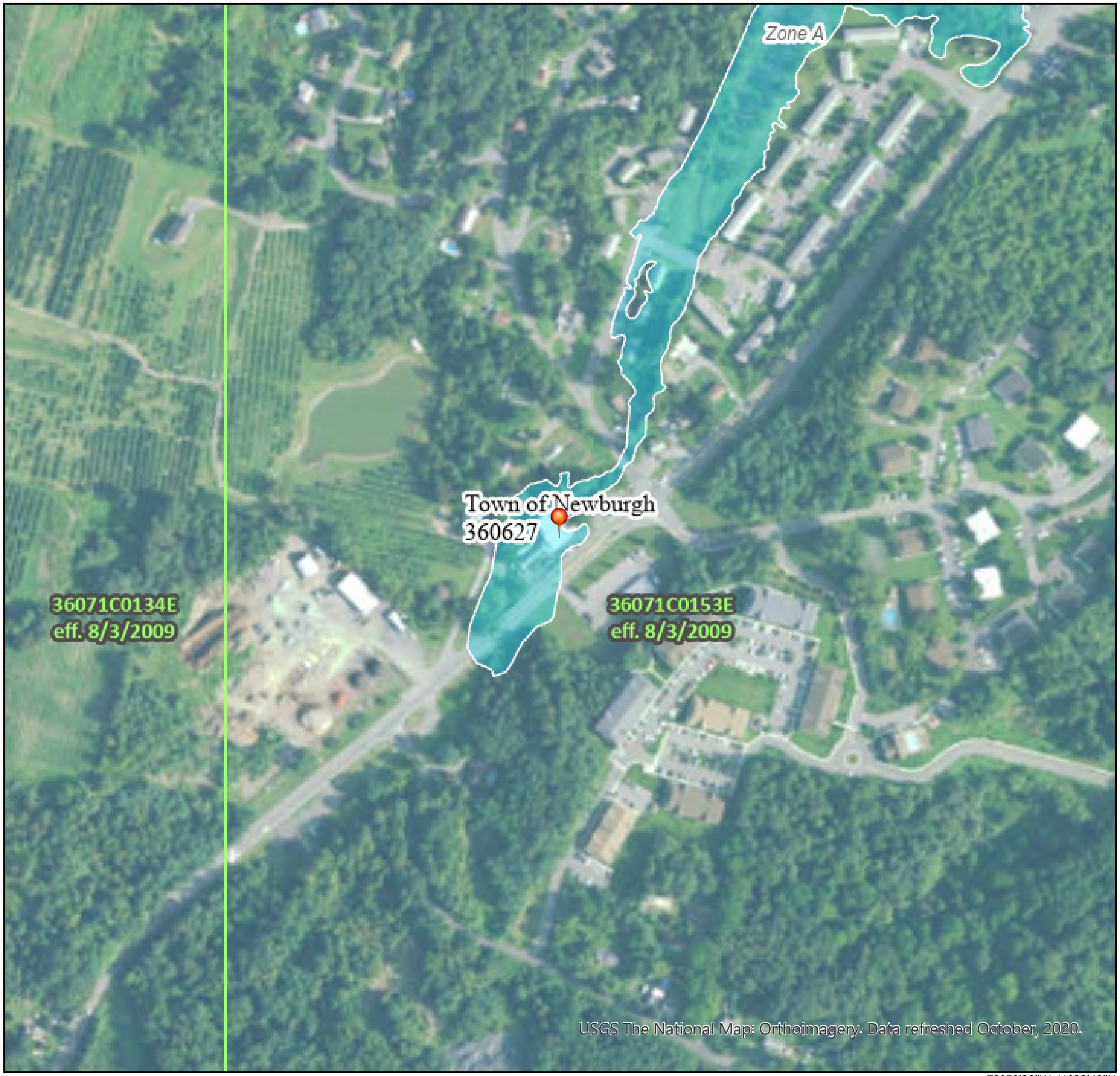
FIRMETTE

National Flood Hazard Layer FIRMette

FEMA

74°0'7"W 41°34'15"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

73°59'30"W 41°33'48"N

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/20/2020 at 9:45 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

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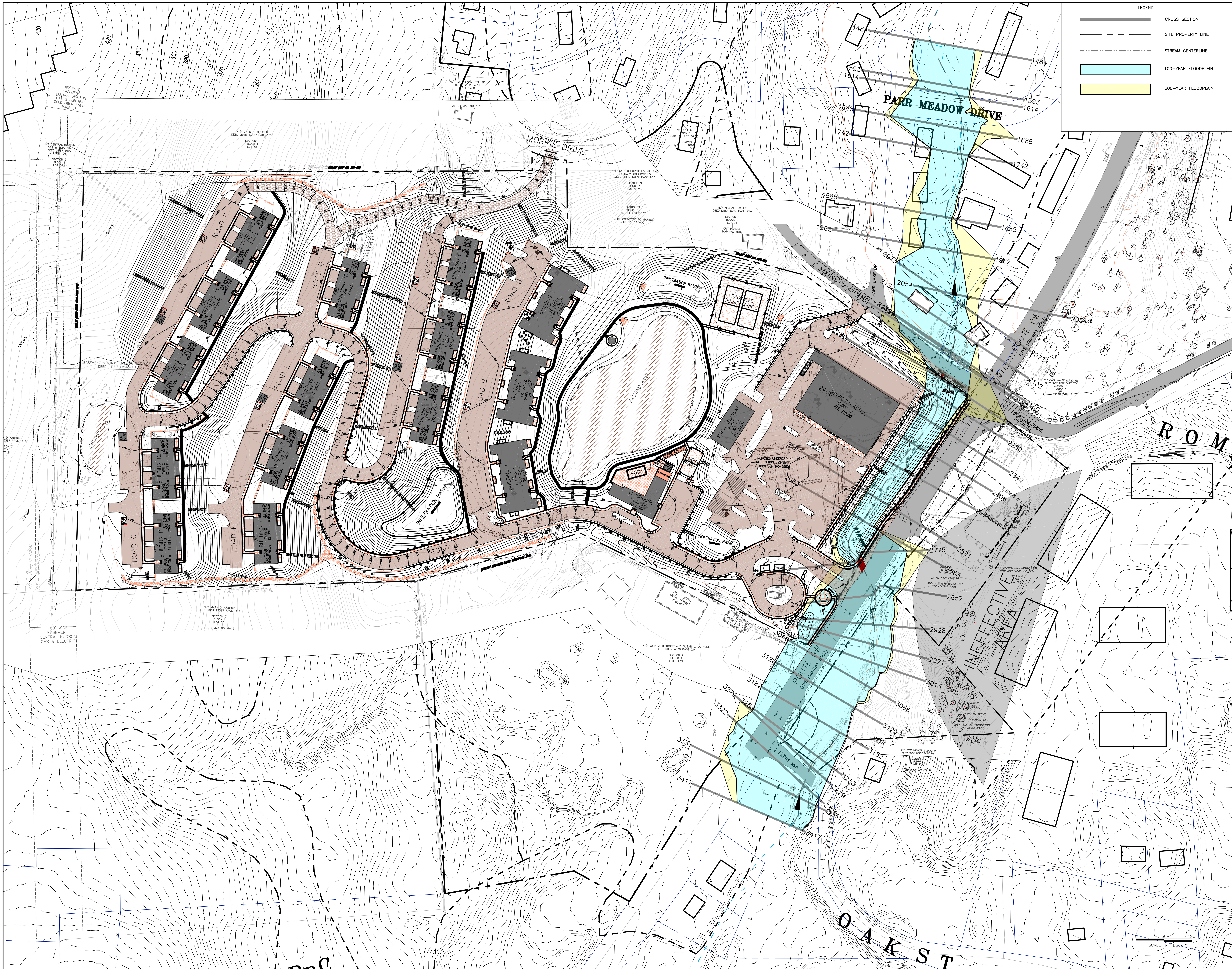
Existing Conditions Work Map


LEGEND
CROSS SECTION
SITE PROPERTY LINE
STREAM CENTERLINE
100-YEAR FLOODPLAIN
PARR MEADOW DRIVE
MORRIS DRIVE
ROUTE 9W
EXISTING POND
INEFFECTIVE AREA
ROMA
OAK ST
LEONARD JACKSON ASSOCIATES
CONSULTING ENGINEERS
26 FIREMENS MEMORIAL DRIVE, POMONA, NEW YORK 10970
phone: (845) 354-4382 fax: (845) 354-4401
LEONARD JACKSON, P.E.
N.Y.S. Lic. No. 42167
LJA
OVERLOOK FARMS A FARRELL COMMUNITY
TOWN OF NEWBURGH
ORANGE COUNTY, NEW YORK
WORKMAP - EXISTING CONDITION
Job number: 20049
Drawn by: JS
Checked by:
Date: 5/7/2021
Scale: 1" = 50'
Drawing Number: HYD-1

Post-Project Conditions Work Map



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OVERLOOK FARMS A FARRELL COMMUNITY
TOWN OF NEWBURGH
ORANGE COUNTY, NEW YORK

WORKMAP - POST PROJECT CONDITION

Job number:	20049
Drawn by:	JS
Checked by:	-.-.-.
Date:	5/7/2021
Scale:	1" = 60'
Drawing Number:	HYD-2